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UNITED STATES GEOLOGICAL SURVEY

CHARLES D. WALCOTT, DIRECTOR

I N D E X

TO

NORTH AMERICAN GEOLOGY, PALEONTOLOGY, PETROLOGY,
AND MINERALOGY

FOR

THE YEARS 1892-1900, INCLUSIVE

BY

FRED BOUGHTON WEEKS



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LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR,
UNITED STATES GEOLOGICAL SURVEY,
Washington, D. C., August 2, 1901.

SIR: I have the honor to transmit herewith the manuscript for an Index to North American Geology, Palentology, Petrology, and Mineralogy for the Years 1892-1900, inclusive, and to request that it be published as a bulletin of the Survey. It is a companion to Bulletin No. 188.

Very respectfully,

F. B. WEEKS.

Hon. CHARLES D. WALCOTT,
Director United States Geological Survey.

INTRODUCTION.

This index comprises the indexes contained in Bulletins Nos. 130, 135, 146, 149, 156, 162, and 172, together with the index to the literature for the year 1900. It is planned to accompany Bulletin No. 188, in which will be found the bibliographic entries to which all the authors' names and the numbers in this publication refer.

The subject headings, their subdivision and arrangement, are shown in the following "Classified key to index." They comprise geographic, geologic, mineralogic, paleontologic, and petrologic subdivisions. Under "Economic geology" is given a list of the useful minerals and ores described in publications examined; under "Mineralogy," a list of minerals described in such publications; under "Paleontology," a list of genera and species of fossils therein described; and under "Petrology," a list of rocks described; reference being made in each case, by author's name and number of entry in the Bibliography, to the paper in which the fossil, mineral, or rock is described.

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^aChemical analyses given in Bull. No. 168, U. S. Geological Survey, "Analyses of rocks from the laboratory of the United States Geological Survey, 1880-1899," by F. W. Clarke, are not contained in this list.

^bThis list of chemical analyses is for the years 1897 to 1900, inclusive.

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 Gold, Halse, 2278, 2279.
 Gold, Hardman, 2286, 2288.
 Gold, Hastings, 2327, 2328, 2329.
 Gold, Hazelhurst, 2439.
 Gold, Heilprin, 2447.
 Gold, Hershey, 2488, 2491, 2493, 2494.
 Gold, Heydon, 2503, 2504.
 Gold, Hill, 2570.
 Gold, Hill, W. H., 2568, 2569.
 Gold, Hille, 2571.
 Gold, Hills, 2595, 2597.
 Gold, Hoover, 2729, 2730.
 Gold, Iddings and Weed, 2831.
 Gold, Joseph, 2944.
 Gold, Kemp, 3012.
 Gold, Kirby, 3184.
 Gold, Kraatz, 3268.
 Gold, Ladshaw, 3304.
 Gold, Lakes, 3305, 3307, 3308, 3309, 3310, 3313, 3314, 3316, 3317, 3320, 3322, 3326, 3331, 3337, 3340, 3341, 3342.
 Gold, Lammers, 3378.
 Gold, Landes, 3380.

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Gold, Lavagnino, 3405.
 Gold, Ledoux, 3436.
 Gold, Lee, 3437.
 Gold, Lindgren, 3516, 3519, 3522, 3523, 3526, 3529, 3531, 3533, 3534, 3539, 3540, 3543, 3547, 3548.
 Gold, Lindgren and Turner, 3525, 3527, 3528.
 Gold, Loring, 3575.
 Gold, Ludloff, 3592.
 Gold, Maguire, 3631, 3632, 3633.
 Gold, McCallie, 3826.
 Gold, McCarn, 3831, 3832.
 Gold, McConnell, 3839.
 Gold, McInnes, 3882.
 Gold, McKellar, 3886.
 Gold, Mendenhall, 3903, 3905, 3907.
 Gold, Merrill, 3956.
 Gold, Merritt, 3974.
 Gold, Miller, 3989.
 Gold, Moneton, 4021, 4022.
 Gold, Moore, 4026.
 Gold, Nason, 4067, 4068, 4070, 4071.
 Gold, Neill, 4072.
 Gold, Nevius, 4079.
 Gold, Nitze, 4111.
 Gold, Nitze and Hanna, 4108.
 Gold, Nitze and Wilkens, 4109, 4112.
 Gold, Nordenskjöld, 4113.
 Gold, Nye, 4126.
 Gold, Ogilvie, 4127.
 Gold, Peale, 4267.
 Gold, Pearce, 4271, 4272, 4278, 4278a.
 Gold, Penrose, 4345, 4346, 4347.
 Gold, Peters and Brooks, 4361.
 Gold, Petre, 4362.
 Gold, Phillips, 4367, 4373, 4374, 4375.
 Gold, Porter, 4418, 4419.
 Gold, Posepny, 4421.
 Gold, Prest, 4453.
 Gold, Preston, 4456.
 Gold, Purington, 4511, 4512, 4513.
 Gold, Quille, 4517, 4518, 4519.
 Gold, Ransome, 4543.
 Gold, Rickard, 4590, 4597, 4599, 4602, 4603.
 Gold, Rohn, 4660.
 Gold, Russell, 4721.
 Gold, Schrader, 4830, 4833, 4834, 4835.
 Gold, Schrader and Brooks, 4836.
 Gold, Scupham, 4901.
 Gold, Selwyn, 4909.
 Gold, Sisley, 4988.
 Gold, Skewes, 4990, 4992.
 Gold, Smith, 5012, 5016, 5019, 5020, 5021, 5023.
 Gold, Snow, 5107, 5109.
 Gold, Spaulding, 5111.
 Gold, Spurr, 5171, 5173, 5174, 5176, 5184.
 Gold, Spurr and Post, 5178.
 Gold, Stone, 5257, 5259.
 Gold, Storms, 5260, 5264, 5265, 5266, 5267, 5268.
 Gold, Streeruwitz, 5272.
 Gold, Stretch, 5277.
 Gold, Stuart, 5279.
 Gold, Sword, 5282a.
 Gold, Tatham, 5334.
 Gold, Todd, 5407.
 Gold, Tower, 5446.

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Gold, Tower and Smith, 5445.
 Gold, Turner, 5451, 5454, 5459, 5465, 5467, 5471.
 Gold, Turner and Ransome, 5470.
 Gold, Underhill, 5545.
 Gold, Van Diest, 5676.
 Gold, Wadsworth, 5768.
 Gold, Waring, 5862.
 Gold, Washburn, 5869.
 Gold, Watts, 5903.
 Gold, Weber, 5914.
 Gold, Weed, 5932, 5934, 5945, 5946, 5953.
 Gold, Weed and Pirsson, 5935, 5939, 5942.
 Gold, Wells, 6012, 6018.
 Gold, Willmot, 6261.
 Gold, Wiltsee, 6272.
 Gold, Winchell, 6286.
 Gold, Winchell and Grant, 6289.
 Gold, Winchell, H. V., and Grant, 6285.
 Gold, Winslow, 6400.
 Gold, Woodman, 6428.
 Gold, Wurtz, 6528.
 Gold, Wynkoop, 6531.
 Gold, Yale, 6532.
 Gold, Yeates, McCallie, and King, 6435.
 Grahamsite, White, 6062.
 Graphite, Blue, 499.
 Graphite, Todd, 5407.
 Grindstones, Kindle, 3167.
 Grindstones, King, 3178.
 Gypsum, Blake, 470.
 Gypsum, Crawford, 1144, 1145.
 Gypsum, Gilbert, 2005.
 Gypsum, Grimsley, 2186, 2187, 2190, 2192.
 Gypsum, Grimsley and Bailey, 2192a.
 Gypsum, Haworth, 2376.
 Gypsum, Hubbard, 2797.
 Gypsum, Keyes, 3050, 3073, 3107.
 Gypsum, Lane, 3388, 3400.
 Gypsum, Lee, 3437, 3439.
 Gypsum, Luther, 3602.
 Gypsum, Rogers, 4655.
 Gypsum, Watts, 5901.
 Gypsum rock, Bailey and Whitten, 154.
 Hübnerite, Blake, 481.
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 Iron, Adams, 12, 14, 18.
 Iron, Allen, 77.
 Iron, Bachellery, 140.
 Iron, Bailey, L. W., 156.
 Iron, Bailey, 161.
 Iron, Birkinbine, 444, 445, 446.
 Iron, Blue, 499.
 Iron, Brackenbury, 522.
 Iron, Brewer, 554, 564, 589, 591.
 Iron, Cabrera, 673.
 Iron, Calvin, 696.
 Iron, Campbell, 729.
 Iron, Castleman, 777.
 Iron, Catlett, 781, 782.
 Iron, Chambers, 861.
 Iron, Chance, 862.
 Iron, Clements and Smyth, 1015.
 Iron, Coleman, 1052.
 Iron, Coleman and Willmot, 1047.
 Iron, Crawford, 1144, 1145.

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Iron, Cushing, 1248.
 Iron, Darton, 1308, 1315, 1335.
 Iron, Darton and Taff, 1318.
 Iron, Dawson, 1422.
 Iron, Dewar, 1488.
 Iron, Diller, 1503.
 Iron, Emmons, 1698, 1699.
 Iron, Fletcher, 1827.
 Iron, Gilpin, 2027.
 Iron, Grant, 2118, 2123.
 Iron, Hayes, 2410, 2411, 2412, 2413, 2417, 2418, 2419, 2420, 2422.
 Iron, Hill, 2541, 2538.
 Iron, Hoffman, 2657.
 Iron, Hopkins, 2752, 2753.
 Iron, Hulst, 2805.
 Iron, Irving and Van Hise, 2869.
 Iron, Jenkins, 2905.
 Iron, Jennings, 2908.
 Iron, Johnson, 2912, 2913, 2914.
 Iron, Jopling, 2938, 2939.
 Iron, Keith, 2958, 2963.
 Iron, Kemp, 2981, 2987, 3002-3004, 3013.
 Iron, Kennedy, 3027, 3028, 3033, 3034.
 Iron, Keyes, 3088.
 Iron, Kimball, 3162, 3164.
 Iron, Lakes, 3311.
 Iron, Landis, 3381.
 Iron, Lee, 3437.
 Iron, Lesley, 3466, 3467.
 Iron, Lindgren, 3522.
 Iron, Lindgren and Turner, 3528.
 Iron, McCalley, 3815, 3816, 3818, 3819.
 Iron, McCallie, 3828, 3829.
 Iron, McInnes, 3882.
 Iron, Moxham, 4046.
 Iron, Nason, 4057, 4055, 4066.
 Iron, Nitze, 4104, 4110.
 Iron, Parker, 4251.
 Iron, Peehin, 4286, 4288.
 Iron, Penrose, 4340, 4341, 4344, 4346.
 Iron, Phillips, 4376.
 Iron, Poole, 4415.
 Iron, Pope, 4417.
 Iron, Posepny, 4427.
 Iron, Raymond, 4551.
 Iron, Ries, 4622.
 Iron, Robertson, 4646.
 Iron, Rominger, 4664.
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 Iron, Shepard, 4946.
 Iron, Smyth, 5080, 5102.
 Iron, Smyth, C. H., 5073.
 Iron, Smyth, H. L., 5100.
 Iron, Smyth and Finlay, 5101.
 Iron, Snow, 5108.
 Iron, Spencer, 5124.
 Iron, Spurr, 5165, 5166.
 Iron, Stock, 871.
 Iron, Streeruwitz, 5272.
 Iron, Thompson, 5377.
 Iron, Todd, 5407.
 Iron, Turner, 5451.
 Iron, Van Hise, 5679, 5681.
 Iron, Van Hise and Bayley, 5696, 5704, 5713.

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Iron, Wadsworth, 5768.
 Iron, Watts, 5903.
 Iron, Winehell, H. V., 6278, 6280.
 Iron, Winehell, N. H., 6287, 6290, 6292, 6295, 6296, 6297, 6354, 6355.
 Iron, Winslow, Haworth, and Nason, 6397.
 Iron, Wolff, 6406.
 Kaolin, Holmes, 2726.
 Kaolin, Hopkins, 2747, 2748.
 Kaolin, Nevius, 4074.
 Lead, Bain, 207.
 Lead, Beadle, 326.
 Lead, Blake, 454, 458, 461.
 Lead, Boyd, 514.
 Lead, Branner, 552.
 Lead, Brewer, 564, 576.
 Lead, Calvin, 696.
 Lead, Calvin and Bain, 720.
 Lead, Crawford, 1144, 1145.
 Lead, Dewar, 1488.
 Lead, Emmons, 1699.
 Lead, Feehet, 1804.
 Lead, Gilpin, 2029.
 Lead, Haworth, 2376.
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 Lead, Hayes, 2418.
 Lead, Hedburg, 2443.
 Lead, Herrick, 2457, 2459.
 Lead, Jenney, 2906.
 Lead, Kendall, 3024.
 Lead, Keyes, 3088.
 Lead, Lakes, 3333.
 Lead, Lee, 3437.
 Lead, Leonard, 3458, 3459, 3460, 3461, 3462.
 Lead, Lesley, 3466.
 Lead, Nason, 4062.
 Lead, Penrose, 4346.
 Lead, Posepny, 4421.
 Lead, Robertson, 4647.
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 Lead, Shepard, 4946.
 Lead, Simonds and Hopkins, 4966.
 Lead, Todd, 5407.
 Lead, Warren, 5868.
 Lead, Winslow, 6385, 6392, 6395.
 Lignite, Kennedy, 3027, 3028.
 Lime, Bain, 172.
 Lime, Calvin, 696, 699.
 Lime, Clark, O'Harra, Rowe, and Ries, 920.
 Lime, Keith, 2960.
 Lime, Keyes, 3074, 3075.
 Lime, Marbut, 3646, 3647.
 Lime, Merrill, 3930.
 Lime, Norton, 4118.
 Lime, Shepard, 4946.
 Limestone, Day, 1466.
 Limestone, Dresser, 1541.
 Limestone, Ries, 4634.
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 Magnesite, Crawford, 1144, 1145.
 Magnetite, Nitze, 4101, 4102, 4103.
 Magnetite, Pechin, 4287.

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Manganese, Brewer, 568.
 Manganese, Cabrera, 673.
 Manganese, Catlett, 778, 782.
 Manganese, Brumell, 640.
 Manganese, Crawford, 1144, 1145.
 Manganese, Emmons, 1699.
 Manganese, Hall, 2241.
 Manganese, Halse, 2277.
 Manganese, Jennison, 2909.
 Manganese, Keyes, 3088.
 Manganese, Lakes, 3311.
 Manganese, McCalley, 3818.
 Manganese, Penrose, 4342, 4343, 4344, 4346.
 Manganese, Spencer, 5124.
 Manganese, Todd, 5407.
 Manganese, Watts, 5894, 5903.
 Manganese, Weeks, 5964, 5966.
 Manganese, Winchell, N. H., 6303.
 Marble, Darton, 1308.
 Marble, Keith, 2960, 2962, 2963.
 Marble, McCallie, 3823.
 Marble, McCalley, 3818.
 Marble, Smyth, C. H., jr., 5080.
 Marcasite, Blake, 457.
 Marl, Barkey, 425e.
 Marl, Clark, 906.
 Marl, Darton, 1314.
 Marl, Davis, 1343.
 Mica, Blue, 499.
 Mica, Fuller, 1905.
 Mica, Henderson, 2453.
 Mica, Holmes, 2722.
 Mica, Todd, 5407.
 Mineral paint, Bain, 171.
 Mineral paint, Calvin, 696.
 Mineral water, Crawford, 1145.
 Mineral water, McCalley, 3815.
 Mineral water, Merrill, 3930.
 Mineral water, Peale, 4267.
 Mineral waters, Lane, 3395.
 Monazite, Metzger, 3978.
 Monazite, Nitze, 4105, 4106, 4111a.
 Natural gas, Bailey, E. H. S., 153.
 Natural gas, Bain, 193.
 Natural gas, Bishop, 448, 449.
 Natural gas, Blue, 499.
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 Natural gas, Brumell, 641, 643.
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 Natural gas, Crawford, 1144, 1145.
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 Natural gas, Gorby, 2057, 2058, 1059.
 Natural gas, Haworth, 2356, 2362, 2376.
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 Natural gas, Keyes, 3049.
 Natural gas, Lakes, 3347.
 Natural gas, Lane, 3388.
 Natural gas, Leach, 3424, 3425.
 Natural gas, Leonard, 3463, 3464.
 Natural gas, Lincoln, 3512.
 Natural gas, Lindgren and Turner, 3527.
 Natural gas, McCalley, 3815.
 Natural gas, McGee, 3845.
 Natural gas, Orton, 4160, 4165, 4168, 4172.
 Natural gas, Phillips, 4365.

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Natural gas, Phinney, 4377.
 Natural gas, Sadtler, 4725.
 Natural gas, Sherzer, 4954.
 Natural gas, Strieby, 5278.
 Natural gas, Topley, 5442.
 Natural gas, Watts, 5908.
 Natural gas, Weeks, 5967.
 Natural gas, White, 6061.
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 Nickel, Austin, 131.
 Nickel, Argall, 119.
 Nickel, Bain (J. W.), 215.
 Nickel, Barlow, 242.
 Nickel, Bell, 400.
 Nickel, Blue, 499.
 Nickel, Bush, 669.
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 Nickel, Emmens, 1684.
 Nickel, Emmons, 1699.
 Nickel, Hoffman, 2657.
 Nickel, Kemp, 2985.
 Nickel, Keyes, 3088.
 Nickel, McCharles, 3833, 3834.
 Nickel, Merritt, 3973.
 Nickel, Mickle, 3979.
 Nickel, Miller, 4007.
 Nickel, Olcott, 4135.
 Nickel, Packard, 4232.
 Nickel, Todd, 5407.
 Nickel, Turner, 5473.
 Nickel, Walker, 5823.
 Ocher, Couper, 1107.
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 Oil, Orton, 4170, 4172.
 Oil, Palache, 4255.
 Oil, Sherzer, 4954.
 Oil, Watts, 5910, 5911, 5912.
 Onyx, De Kalb, 1480.
 Onyx, Gorby, 2060.
 Onyx, Merrill, 3958.
 Onyx, Merrill, G. P., 3944.
 Onyx marble, De Kalb, 1481.
 Ozokerite, Ohly, 4133.
 Ozokerite, Gosling, 2071.
 Peat, Shaler, 4924.
 Petroleum, Bailey, E. H. S., 153.
 Petroleum, Benedict, 414.
 Petroleum, Bishop, 449.
 Petroleum, Blatchley, 490, 494.
 Petroleum, Blue, 499.
 Petroleum, Brumell, 641, 642, 643.
 Petroleum, Cooper, 1066, 1067, 1068.
 Petroleum, Crawford, 1144, 1145.
 Petroleum, Day, 1460.
 Petroleum, Dumble, 1570, 1571.
 Petroleum, Eldridge, 1620, 1624.
 Petroleum, Fairbanks, 1758, 1771.
 Petroleum, Forstall, 1875.
 Petroleum, Gorby, 2057, 2059.
 Petroleum, Haworth, 2356, 2362, 2376.
 Petroleum, Hubbard, 2797.
 Petroleum, Irving, 2868.
 Petroleum, Keith, 2965.
 Petroleum, Keyes, 3049.

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Petroleum, Knight, 3203, 3205, 3206.
 Petroleum, Lane, 3388.
 Petroleum, Lakes, 3343.
 Petroleum, Mabery, 3620.
 Petroleum, McCalley, 3815.
 Petroleum, Merrill, 3930.
 Petroleum, Miller, 4004.
 Petroleum, Oliphant, 4136.
 Petroleum, Orton, 4160, 4168, 4172.
 Petroleum, Peckham, 4290, 4292.
 Petroleum, Phillips, 4365, 4366, 4376a.
 Petroleum, Ross, 4666.
 Petroleum, Sadtler, 4725, 4726.
 Petroleum, Schmitz, 4826.
 Petroleum, Slosson, 5996.
 Petroleum, Topley, 5442.
 Petroleum, Van Ingen, 5714.
 Petroleum, Watts, 5908, 5909.
 Petroleum, White, 6055, 6061.
 Phosphate, Branner, 535, 540.
 Phosphate, Brown, 630, 631.
 Phosphate, Carnot, 754.
 Phosphate, Codington, 1023.
 Phosphate, Cox, 1113.
 Phosphate, Davidson, 1340.
 Phosphate, Eldridge, 1621.
 Phosphate, Hayes, 2416, 2423, 2424, 2430.
 Phosphate, Johnson, 2918.
 Phosphate, Killebrew, 3159, 3160.
 Phosphate, McCallie, 3824.
 Phosphate, Meadows and Brown, 3894.
 Phosphate, Memminger, 3900.
 Phosphate, Miller, 3985.
 Phosphate, Phillips, 4370, 4371.
 Phosphate, Pratt, 4452.
 Phosphate, Reese, 4565.
 Phosphate, Safford, 4731, 4732.
 Phosphate, Small, 4999.
 Phosphate, Smith, 5003, 5013.
 Phosphate, Wells, 6008.
 Phosphate, Wills, 6262.
 Phosphate, Wyatt, 6529.
 Platinum, Crawford, 1144.
 Platinum, Day, 1461, 1464.
 Platinum, Donald, 1524.
 Platinum, Hoffman, 2657.
 Platinum, Streeruwitz, 5272.
 Pumice, King, 3178.
 Pyrophyllite, Pratt, 4451a.
 Pyrrhotite, Kemp, 2985.
 Pyrrhotite, Nicol, 4098.
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 Quicksilver, Crawford, 1144, 1145.
 Quicksilver, Emmons, 1699.
 Quicksilver, Fairbanks, 1747.
 Quicksilver, Halse, 2281.
 Quicksilver, Lindgren and Turner, 2528.
 Quicksilver, Rundall, 4693.
 Quicksilver, Turner, 5489.
 Quicksilver, Watts, 5894, 5896, 5902, 5905, 5907.
 Road material, Bain, 192.
 Road material, Benedict, 416.
 Road material, Calvin, 714.

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Road material, Clark, O'Harra, Rowe, and Ries, 920.
 Road material, Cushing, 1248.
 Road material, Leonard, 3464.
 Road material, Lincoln, 3512.
 Road material, Marbut, 3646.
 Road material, Morris, 4045.
 Road material, Ries, 4622.
 Road material, Salisbury and Knapp, 4773.
 Road material, Shepard, 4946.
 Road material, Tilton and Bain, 5396.
 Road material, Whittle, 6124.
 Road materials, Bain, 171, 172, 179.
 Road materials, Beyer, 438.
 Road materials, Calvin, 699.
 Road materials, Hayes, 2417.
 Road materials, Holmes and Cain, 2718a.
 Road materials, Lane, 3400.
 Road materials, Lonsdale, 3567.
 Road materials, McCalley, 3815, 3818.
 Road materials, Merrill, 3934.
 Road materials, Shaler, 4922, 4923.
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 Salt, Crawford, 1144.
 Salt, Haworth, 2373.
 Salt, Hay, 2393.
 Salt, Hubbard, 2797.
 Salt, Kennedy, 3027.
 Salt, Lane, 3400.
 Salt, Lucas, 3580, 3581.
 Salt, Luther, 3600, 3602, 3603.
 Salt, Preston, 4464.
 Salt, Romeyn, 4662.
 Salt, Veatch, 5746.
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 Sandstone, Day, 1466.
 Sapphire, Weed, 5946.
 Shale, Lane, 3400.
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 Siliceous dolomite, McCalley, 3818.
 Silver, Andersen, 111.
 Silver, Austin, 133.
 Silver, Barlow, 253.
 Silver, Barrell, 258, 259.
 Silver, Beadle, 326.
 Silver, Bell, 412.
 Silver, Blake, 483a.
 Silver, Blandy, 487.
 Silver, Blauvelt, 497.
 Silver, Brewer, 576, 577, 587.
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 Silver, Brown, 634.
 Silver, Buelna, 661.
 Silver, Burdsal, 663.
 Silver, Carlyle, 750, 751, 752, 753.
 Silver, Clark, 890.
 Silver, Clark, E., 889.
 Silver, Comstock, 1062.
 Silver, Corning, 1105.
 Silver, Crawford, 1144, 1145.
 Silver, Dewar, 1488.
 Silver, Diller, 1513.
 Silver, Draper, 1540.
 Silver, Eldridge, 1625.
 Silver, Emmons, 1686, 1698, 1699, 1705, 1706, 1708, 1712.

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Silver, Emmons and Tower, 1711.
 Silver, Fairbanks, 1755, 1762.
 Silver, Farish, 1791.
 Silver, Fechet, 1804.
 Silver, Fenner, 1810.
 Silver, Fowler, 1881, 1882.
 Silver, Furman, 1932.
 Silver, Grant, 2135.
 Silver, Gratacap, 2151.
 Silver, Gwillim, 2226, 2228.
 Silver, Gwillim and Johnson, 2227.
 Silver, Halse, 2280.
 Silver, Hardman, 2286, 2288.
 Silver, Herriek, 2457.
 Silver, Hoffman, 2657.
 Silver, Joseph, 2944.
 Silver, Kendall, 3024.
 Silver, Keyes, 3088.
 Silver, Kirby, 3186.
 Silver, Kunz, 3299.
 Silver, Lakes, 3305, 3310, 3320, 3331, 3333, 3338.
 Silver, Lammers, 3378.
 Silver, Lavagnino, 3405.
 Silver, Lee, 3437.
 Silver, Lindgren, 3523, 3548.
 Silver, McCormick, 3841.
 Silver, MacMechen, 3629.
 Silver, McKellar, 3884.
 Silver, Nason, 4071.
 Silver, Ordonez, 4149.
 Silver, Penrose, 4346.
 Silver, Petre, 4362.
 Silver, Porter, 4418, 4419.
 Silver, Posepny, 4421.
 Silver, Purington, 4511, 4512, 4513.
 Silver, Rickard, 4590, 4602.
 Silver, Spurr, 5171, 5175.
 Silver, Storms, 5260, 5261.
 Silver, Streeruwitz, 5272.
 Silver, Todd, 5407.
 Silver, Tower, 5446.
 Silver, Tower and Smith, 5445.
 Silver, Van Diest, 5676.
 Silver, Warren, 5868.
 Silver, Weed, 5934, 5945, 5946, 5953.
 Silver, Weed and Pirsson, 5935, 5939.
 Silver, Wiltsee, 6274.
 Silver, Wynkoop, 6531.
 Slate, Beyer, 433.
 Slate, Day, 1466.
 Slate, Merriman, 3970.
 Soda, Blake, 477.
 Soda, Chatard, 877a.
 Soda, Crawford, 1144.
 Soda, Knapp, 3197.
 Soda, Knight, 3210.
 Sodium, Packard, 4233.
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 Soil, Bain, 172.
 Soil, Beyer, 432.
 Soil, Calvin, 699.
 Soil, Campbell, 729.
 Soil, Darton, 1315.
 Soil, Darton and Taff, 1318.
 Soil, Haworth, 2364.

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Soil, Hay, 2397.
 Soil, Hayes, 2417, 2418, 2419, 2420, 2422.
 Soil, Lindgren and Turner, 3528.
 Soil, Lonsdale, 3567.
 Sulphur, Fulton, 1920.
 Sulphur, Smith, 5014.
 Sulphur, Watts, 5901.
 Talc, Luquer, 3594a.
 Talc, Nevius, 4075, 4076.
 Talc, Pratt, 4451a.
 Talc, Sahlen, 4734.
 Talc, Smyth, 5080, 5090, 5092.
 Tin, Claypole, 981.
 Tin, Emmons, 1699.
 Tin, Fairbanks, 1765.
 Tin, Halse, 2282.
 Tin, Ingalls, 2862.
 Tin, Kempton, 3023.
 Tin, Rolker, 4661.
 Tin, Todd, 5407.
 Tin, Ulke, 5528, 5530.
 Titaniferous magnetite, Kemp, 2993, 3008.
 Tripoli, Quimby, 4520.
 Tungsten, Blake, 483a.
 Uintaite, Eldridge, 1626, 1627.
 Uranium, Hillebrand and Ransome, 2587.
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 Water supply, Bain, 171, 172, 179, 180, 205.
 Water supply, Barbour, 237.
 Water supply, Branner, 552.
 Water supply, Calvin, 699.
 Water supply, Campbell and Leverett, 742.
 Water supply, Darton, 1328.
 Water supply, Gordon, 2069.
 Water supply, Hay, R., 2394.
 Water supply, Hill and Vaughan, 2556.
 Water supply, Hills, 2599.
 Water supply, Lane, 3394.
 Water supply, Leverett, 3486, 3487, 3495, 3496, 3497.
 Water supply, Lonsdale, 3467.
 Water supply, Mead, 3887, 3888, 3889.
 Water supply, Newell, 4085.
 Water supply, Orton, 4169.
 Water supply, Shaler, 4931.
 Water supply, Tilton, 5392.
 Water supply, Todd, 5436.
 Water supply, Vaughan, 5739.
 Water supply, Wilson, 6269.
 Whetstones, Kindle, 3167.
 Wolfram, Gurlt, 2225.
 Wolframite, Blake, 478, 479, 483a.
 Zinc, Bain, 207.
 Zinc, Blake, 457, 458, 461, 464, 465.
 Zinc, Boyd, 514.
 Zinc, Branner, 552.
 Zinc, Brewer, 564.
 Zinc, Calvin, 696.
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 Zinc, Case, 775, 776.
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 Zinc, Schmitz, 4827.
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 Amboy clay series, Hollick, 2695, 2700.
 Amherst feldspathic mica-schist, Emerson, 1676.
 Amyzon formation, Smith, 5039.
 Anacacho formation, Hill and Vaughan, 2556.
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 Arago formation, Smith, 5039.
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 Arikaree formation, Darton, 1328.
 Arizona slates, Blake, 4832.
 Arkona beach, Sherzer, 4954.
 Aroostook limestone, Gregory, 2166.
 Aroostook limestone, Williams, 6190.
 Arundel formation, Clark, 912.
 Arundel, Clark and Bibbins, 913.
 Ashland limestone, Williams, 6190.
 Ashland shales, Williams, 6190.
 Ashton schists, Shaler, Woodworth, and Foerste, 4940.
 Atane series, White and Schuchert, 6048.
 Atchison shale, Keyes, 3142, 3148.
 Atchison shale, Prosser, 4495.
 Athabasca sandstone, Tyrrell, 5499.
 Athens shale, Campbell, 740.
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 Atoka formation, Taff and Adams, 5295.
 Attleboro sandstone, Shaler, Woodworth, and Foerste, 4940.
 Aturia formation, Smith, 5039.
 Auburn shale, Beede, 390.
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 Augusta limestone, Marbut, 3646, 3647, 3650.
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 Bangor limestone, McCalley, 3818.
 Baptonodon beds, Marsh, 3712.
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 Barbacoas formation, Hill, 2557.
 Barbican, Hill, 2564.
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 Barton Creek, Cragin, 1130.
 Basal sandstone, Berkey, 427.
 Basal sandstone, Norton, 4122.
 Basement complex, Van Hise and Bayley, 5704.
 Basement series, Smith, 5059.
 Bashi, Harris, 2313.
 Bassimenan lake granite, Winchell, 6352.
 Bates Hole formation, Smith, 3039.
 Batesville sandstone, Drake, 1539.
 Batesville sandstone, Weller, 5986.
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 Baucari division, Dumble, 1573.
 Bayard formation, Clark, 912.
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 Beacon Hill formation, Salisbury and Knapp, 4773.
 Bearwallow conglomerate, Campbell, 735.
 Beaver Bay diabase, Winchell, 6372.
 Becket gneiss, Emerson, 1676, 1677.
 Becraft limestone, Clarke, 971.
 Becraft limestone, Clarke and Schuchert, 965, 977.
 Becraft limestone, Weller, 6003.
 Bedford limestone, Hopkins and Siebenthal, 2742.
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 Beckmantown limestone, Clarke, 971.
 Beckmantown limestone, Clarke and Schuchert, 965, 977.
 Belchertown tonalite, Emerson, 1676.
 Eelfast bed, Foerste, 1843.
 Bellerophon bed, Sardeson, 4799.
 Bellowspipe limestone, Hobbs, 2646.
 Bells Landing, Harris, 2313.
 Bellvale flags, Ries, 4622.
 Belly River beds, Knowlton, 3251.
 Beloit formation, Sardeson, 4799.
 Belt formation, Weed, 5946, 5953.
 Benton, Bain, 196.
 Benton, Darton, 1323, 1328.
 Benton, Haworth, 2369.
 Benton, Logan, 3552.
 Benton, Weed and Pirsson, 5942.
 Benton shale, Wilder, 6140.
 Berkshire schist, Dale, 1256, 1257.
 Berkshire schist, Hobbs, 2646.
 Berlin rhyolite-gneiss, Weidman, 5970.
 Bernardston formation, Emerson, 1676, 1677.

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 Beulah clays, Ward, 5856.
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 Bijiki schist, Van Hise and Bayley, 5704.
 Birch Creek series, Emmons, 1713.
 Birch Creek series, Spurr, 5173.
 Bird Mountain grit, Dale, 1257.
 Birdseye, Mareou, 3663.
 Birdseye formation, White, 6070.
 Birdseye limestone, Cumings, 1220.
 Birdseye, Winehell and Ulrich, 6337.
 Black Patch grit, Dale, 1256.
 Black River, Ells, 1661.
 Black River, Mareou, 3663.
 Black River, Winehell and Ulrich, 6337.
 Black River formation, White, 6070.
 Black River limestone, Clarke, 971.
 Black River limestone, Cumings, 1220.
 Black River limestone, Clarke and Schuchert, 965.
 Blackrock diabase, Emerson, 1676.
 Black shale, Girty, 2035.
 Black shale, Keyes, 3090.
 Black shale, McCalley, 3818.
 Black shale, Shepard, 4946.
 Blackstone series, Shaler, Woodworth, and Foerste, 4940.
 Blackwater formation, Darton, 1335.
 Blue Canyon formation, Lindgren, 3547.
 Blue Creek series, Bain, 212.
 Boulder clay, Dawson, 1425.
 Bloomington moraine, Leverett, 3495.
 Bluebird aplite, Weed, 5948.
 Bluefield shale, Campbell, 735.
 Blue Hills shale, Logan, 3556.
 Blue Mountain series, Hill, 2564.
 Bluestone formation, Campbell, 735.
 Buggy shale, Taff, 5290.
 Buggy shale, Taff and Adams, 5295.
 Bogue Island formation, Hill, 2549.
 Bohemia conglomerate, Hubbard, 2798.
 Bonair conglomerate lentil, Campbell, 739.
 Bone Lake crystalline schists, Clements and Smyth, 1015.
 Boone chert, Drake, 1539.
 Boone chert, Williams, 6191.
 Border conglomerate, Kümmel, 3280.
 Bossardville limestone, Weller, 6003.
 Boston group, Drake, 1539.
 Boston group, Williams, 6191.
 Bowden formation, Hill, 2564.
 Bowling Green limestone, Keyes, 3135.
 Braxton formation, Campbell, 741.
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 Briceville shale, Keith, 2965.
 Bridger group, Osborn, 4200.
 Bridger formation, Smith, 5039.
 Bridgeton formation, Salisbury, 4775.
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 Brito formation, Hayes, 2431.
 Brule clay, Darton, 1328.
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 Buchanan, Leverett, 3493.
 Buchanan gravel, Beyer, 436.
 Buchanan gravel, Calvin, 712, 714, 715, 717.
 Buchanan gravel, Calvin and Bain, 720.
 Buchanan gravel, Wilder, 6140.
 Buchanan gravel, Williams, 6195.
 Buda limestone, Vaughan, 5738, 5739.
 Buffalo shale, Keyes, 3135.
 Buff Bay beds, Hill, 2564.
 Buff limestone, Sardeson, 4799.
 Buff limestone, Winehell and Ulrich, 6337.
 Bujio formation, Hill, 2557.
 Butte granite, Weed, 5948.
 Burlingame limestone, Hawthorn, 2375.
 Burlingame shale, Beede, 390.
 Burlington formation, Marbut, 3650.
 Burlington limestone, Keyes and Rowley, 3119.
 Burlington limestone, Lower, Shepard, 4946.
 Burlington limestone, Upper, Shepard, 4946.
 Cabotian, Grant, 2125.
 Cabotian, Winehell, 6361.
 Cabotian lavas, Winehell, 6350.
 Caeapon sandstone, Darton, 1335.
 Cache Creek formation, Dawson, 1433.
 Calaveras formation, Lindgren, 3534, 3547.
 Calaveras formation, Ransome, 4543.
 Calaveras formation, Turner, 5467, 5471.
 Calaveras formation, Turner and Ransome, 5470, 5485.
 Calciferous, Cushing, 1245.
 Calciferous, Ells, 1660.
 Calciferous, Marcou, 3663.
 Calciferous sand rock, Cumings, 1220.
 Calhoun limestone, etc., Beede, 390.
 Callaway limestone, Keyes, 3090, 3135.
 Cambrie, Clarke, 971.
 Cambrie, Clarke and Schuchert, 965.
 Cambridge formation, Hill, 2564.
 Camden chert, Safford and Schuchert, 4733.
 Camerella bed, Sardeson, 4799.
 Canaan formation, Darton, 1335.
 Canadian, Clarke, 971.
 Canadian, Clarke and Schuchert, 965, 977.
 Cantwell conglomerate, Eldridge, 1632.
 Cantwell conglomerate, Eldridge and Muldrow, 1631.
 Cap-au-gres, sandstone, Keyes, 3135.
 Cape Cod series, Shaler, 4933, 4934.
 Cape Horn formation, Lindgren, 3547.
 Cape John formation, Ami, 110.
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 Cape May formation, Salisbury, 4775.
 Caprina limestone, Cragin, 1130.
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 Carlisle shale, Hills, 2598, 2599.
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 Carrollton limestone, Williams, 6191.
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 Carters Creek, Winehell and Ulrich, 6337.
 Cascade formation, Weed, 5945, 5946.
 Cason shale, Williams, 6191.

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 Catskill sandstone, Clarke and Schuchert, 965, 977.
 Cavanioi group, Drake, 1539.
 Cave Creek formation, Cragin, 1128.
 Cayugan, Clarke, 971.
 Cayugan, Clarke and Schuchert, 965, 977.
 Cedar formation, Turner, 5471.
 Ceratops beds, Stanton and Knowlton, 5203.
 Cedar Valley limestone, Udden, 5517.
 Cedar Valley limestone, Williams, 6195.
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 Cedar Valley stage, Norton, 4124.
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 Cerro Gordo moraine, Leverett, 3495.
 Chadron formation, Darton, 1328.
 Chalk Mountain nevadite, Emmons, 1712.
 Chamberlain shale, Weed, 5953.
 Champaign moraine, Leverett, 3495.
 Champlain clays, Emerson, 1677.
 Champlainie, Clarke, 971.
 Champlainie, Clarke and Schuchert, 965, 977.
 Chapelton beds, Hill, 2564.
 Chapman sandstone, Williams, 6190.
 Charleston sandstone, Campbell, 741.
 Chase, Beede, 398.
 Chase formation, Prosser, 4495.
 Chattanooga shale, Campbell, 736, 737, 738, 740.
 Chautauquan, Clarke, 971.
 Chautauquan, Clarke and Schuchert, 965, 977.
 Chazy, Bell, 406.
 Chazy-limestone, Clarke, 971.
 Chazy, Cushing, 1245.
 Chazy, Ellis, 1661.
 Chazy Marcou, 3663.
 Chazy, Winchell and Ulrich, 6337.
 Chazy limestone, Clarke and Schuchert, 965.
 Chemung, Luther, 3603.
 Chemung, Prosser, 4497.
 Chemung, Ries, 4622, 4623.
 Chemung beds, Clarke, 971.
 Chemung beds, Clarke and Schuchert, 965.
 Chemung group, Luther, 3602.
 Chemung series, Prosser, 4493.
 Cherokee shales, Crane, 1137.
 Cherokee shales, Haworth, 2375.
 Cherokee shales, Keyes, 3113, 3139, 3148.
 Cherokee shales, Marbut, 3646, 3647, 3649.
 Cherokee shales, Orton, 4170.
 Cherryville shales, Haworth, 2375.
 Chesapeake formation, Clark, 912.
 Cheshire quartzite, Emerson, 1676, 1677, 1678.
 Chester amphibolite, Emerson, 1676.
 Chesterfield group, Shaler and Woodworth, 4939.
 Chestnut Hill schists, Rand, 4528.
 Cheyenne sandstones, Gould, 2073, 2075.
 Cheyenne sandstones, Prosser, 4491, 4496.
 Chickamauga limestone, Campbell, 735, 740.
 Chicso formation, Fairbanks, 1768.
 Chicopee shale, Emerson, 1676, 1677.
 Chicso-Tejon, Marcou, 3664.
 Chitstone limestone, Rohn, 4660.
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 Chouteau limestone, Keyes and Rowley, 3119.
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 Churchill sandstone, Tyrrell, 5499.
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 Cincinnati, Clarke, 971.
 Cincinnati, Clarke and Schuchert, 965, 977.
 Clark formation, White, 6052.
 Clarksburg formation, Van Hise and Bayley, 5704.
 Clear Creek limestone, Safford and Schuchert, 4733.
 Clearwater shale, Tyrrell, 5501.
 Clinch sandstone, Campbell, 735, 740.
 Clinton, Bell, 406.
 Clinton beds, Clarke, 971.
 Clinton, Foerste, 1839, 1843.
 Clinton, Gilbert, 1992.
 Clinton formation, O'Harra, 4129.
 Clinton, Ries, 4623.
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 Clinton formation, Foerste, 1840.
 Clinton group, Luther, 3603.
 Clinton limestone, Blatchley and Ashley, 496.
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 Cobre formation, Hill, 2564.
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 Coeymans limestone, Weller, 6003.
 Coeymans limestone, Clarke and Schuchert, 965, 977.
 Coldwater shale, Gordon, 2069.
 Coldwater shales, Lane, 3394, 3400.
 Coles Brook limestone, Emerson, 1677, 1678.
 Colorado, Bain, 196.
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 Colorado formation, Spurr, 5175.
 Colorado formation, Weed, 5945.
 Columbia formation, Clark, 911.
 Columbia formation, Spencer, 5148, 5152.
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 Columbia lava formation, Russell, 4707.
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 Comanche, Stanton, 5201.
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 Comanche series, Hill and Vaughan, 2556.
 Comanche series, Vaughan, 5738.
 Como group, Knight, 3208, 3217.
 Conancicut arkose, Shaler, Woodworth, and Foerste, 4940.
 Concepcion slate, Walcott, 5815.
 Conemaugh formation, Clark, 919.
 Conemaugh formation, O'Harra, 4129.
 Connecticut River sandstone, Emerson, 1677.
 Conodont bed, Grabau, 2085.
 Conway schist, Emerson, 1676, 1677.
 Cook Inlet gravels, Spurr, 5184.
 Coosa shale, McCalley, 3818.
 Copper-bearing series, Dawson, 1426.
 Copper Mountain greenstone, Schrader, 4830, 4833.
 Copper River silts and gravels, Schrader, 4833.
 Corbin conglomerate lentil, Campbell, 736, 737.
 Corniferous, Blatchley and Ashley, 496.
 Corniferous limestone, Bishop, 448.
 Corniferous limestone, Luther, 3602.
 Cottonwood, Beede, 398.
 Cottonwood limestone, Keyes, 3148.
 Cottonwood formation, Prosser, 4490.
 Cottonwood limestone, Keyes, 3128, 3142.
 Courtland quartzite, Hall, 2251.
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 Couteiching, McInnes, 3832.
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 Crab Orchard shales, Foerste, 1843.
 Cranston beds, Shaler, Woodworth, and Foerste, 4940.
 Crosswicks clays, Clark, 910, 915.
 Crystal sandstone, Keyes, 3090.
 Ctenodonta bed, Winchell and Ulrich, 6337.
 Cuchara formation, Hills, 2599.
 Cuchara beds, Osborn, 4193, 4200.
 Culebra clay, Hill, 2557.
 Cumberland quartzite, Shaler, Woodworth, and Foerste, 4940.
 Cumberland sandstone, Foerste, 1843.
 Dakota, Bain, 193, 196.
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 Dakota formation, Cross, 1201.
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 Dakota sandstone, Hills, 2599.
 Dakota formation, Spurr, 5175.
 Dakota formation, Todd, 5424.
 Dakota formation, Weed, 5945.
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 Dakota group, Gould, 2073.
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 Dakota sandstone, Darton, 1328.
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 Dakota sandstone, Hills, 2596.
 Dakota sandstone, Marsh, 3712.
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 Dakota sandstone, Todd, 5436.
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 Davenport beds, Norton, 4124.
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 Decker Ferry formation, Weller, 6003.
 De Kalb limestone, Bain, 198.
 Deer Creek limestone, Haworth, 2375.
 Delhi formation, Lindgren, 3547.
 Del Rio clays, Hill and Vaughan, 2556, 2562.
 Del Rio clay, Vaughan, 5738, 5739.
 Delaware stage, Calvin, 714.
 Denver formation, Davis, 1363, 1389.
 Des Moines, Bain, 173, 193, 195, 198.
 Des Moines, Beyer, 438.
 Des Moines, Keyes, 3139.
 Des Moines, Leonard, 3464.
 Des Moines, Macbride, 3624.
 Des Moines, Tilton and Bain, 5396.
 Des Moines, Udden, 5517.
 Des Moines shale, Tilton, 5395.
 Des Moines series, Keyes, 3090, 3113, 3122, 3134.
 Des Moines series, Shepard, 4946.
 Des Moines stage, Beyer, 435, 436.
 Des Moines stage, Calvin, 711.
 Des Moines stage, Marbut, 3649, 3650.
 Devonian, Clarke, 971.
 Devonian, Clarke and Schuchert, 965.
 Dielasma beds, Norton, 4124.
 Dighton conglomerate group, Shaler, Woodworth, and Foerste, 4940.
 Diplograptus bed, Sardeson, 4799.
 Dismal formation, Campbell, 735.
 Dog Creek formation, Cragin, 1128.
 Dolores formation, Cross, 1201.
 Dolores formation, Cross and Spencer, 1206.
 Dotson sandstone, Campbell, 735.
 Douty gravel, Willis, 6209.
 Dover shale and sandstone, Beede, 390.
 Dresbach sandstone, Berkeley, 427.
 Dresbach shale, Berkeley, 429.
 Dry Creek shale, Weed, 5953.
 Dundee limestone, Lane, 3394.
 Dundee limestone, Sherzer, 4953, 4954.
 Dunkard formation, O'Harra, 4129.
 Eagle Ford formation, Vaughan, 5738, 5739.
 Eagle Ford shales, Hill and Vaughan, 2556.
 Eagle formation, Weed, 5945.
 Eagle Pass formation, Hill and Vaughan, 2556.
 Eagle Pass formation, Vaughan, 5738.
 Earlham limestone, Bain, 198.
 Earleton limestone, Haworth, 2375.
 East Lee limestone, Emerson, 1678.
 Eastern sandstone, Hubbard, 2798.
 Edwards formation, Hill and Vaughan, 2562.
 Edwards limestone, Hill and Vaughan, 2556.
 Edwards limestone, Vaughan, 5733, 5739.
 Egremont limestone, Hobbs, 2646.
 Ekmont limestone, Beede, 390.
 Elgin sandstone, Haworth, 2375.
 Elk Falls limestone, Haworth, 2375.
 Elk Mountain porphyry, Emmons, 1712.
 Elkgarden formation, Clark, 911.
 Ellensburg sandstone, Russell, 4721.
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 Ellis formation, Weed, 5945, 5946.
 Empire formation, Diller, 1509.
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 Empire limestone, Hill, 2557.
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 Erian, Clarke and Schuchert, 965, 977.
 Erie limestone, Haworth, 2375.
 Escondido bed, Vaughan, 5738.
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 Esopus, Ries, 4622.
 Esopus grit, Clarke, 971.
 Esopus grit, Clarke and Schuchert, 965, 977.
 Esopus grit, Weller, 6003.
 Etehemianian terrane, Matthew, 3782.
 Eureka limestone, Haworth, 2375.
 Eureka limestone, Tower and Smith, 5445.
 Eureka shale, Drake, 1539.
 Eureka shale, Shepard, 1946.
 Eureka shale, Williams, 6191.
 Fairfax formation, Clark, 912.
 Fairmount gneiss, Rand, 4528.
 Falmouth formation, Hill, 2564.
 Fayette breccia, Calvin, 711, 715.
 Fayette breccia, Udden, 5517.
 Fayette sandstone, White, 6052.
 Fayetteville shale, Drake, 1539.
 Fernon rhyolite, Smith, 5032.
 Fish House black clay, Woolman, 6474.
 Flathead formation, Hague, 2236.
 Flathead quartzite, Griswold, 2202.
 Flathead sandstone, Weed, 5953.
 Flanagan chert, Campbell, 736.
 Florence, Beede, 398.
 Florencia formation, Hershey, 2177.
 Florencia formation, Pilsbry, 4382.
 Folley limestone, Keyes, 3135.
 Fond du Lac sandstone, Winchell, 6361.
 Forbes limestone, Keyes, 3128, 3142, 3148.
 Fordham gneiss, Merrill, 3936.
 Forest stage, Sherzer, 4954.
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 Galena series, Sardeson, 4806.
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 Garrard sandstone, Campbell, 736.
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 Genesee shale, Clarke, 971.
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 Greyson shale, Walcott, 5815.
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 Groveland formation, Clements and Smyth, 1017.
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 Hancock limestone, Campbell, 740.
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 Hardistonville quartzite, Wolff and Brooks, 6409, 6415.
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 Helena limestone, Walcott, 5815.
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 Honaker limestone, Campbell, 740.
 Hop Brook limestone, Emerson, 1678.
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 Hoosac schist, Emerson, 1676, 1677, 1678.
 Hopewell formation, Ami, 110.
 Howard limestone, Haworth, 2375.
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 Illinois stage, Calvin, 708.
 Independence limestone, Haworth, 2375.
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 Joachim-limestone, Hershey, 2480.
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 Kansan drift, Calvin, 711, 712, 718.
 Kansan drift, Hershey, 2478.
 Kansan drift, Leonard, 3464.
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 Kansan drift, Tilton and Bain, 5396.
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 Kansan stage, Beyer, 434.
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 Kansas drift, Calvin and Bain, 720.
 Kansas till, Leverett, 3494.
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 Kendal Green slate, Hobbs, 2627.
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 Kingfisher formation, Cragin, 1128.
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 Kingston formation, Hill, 2564.
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 Kitchi schists, Van Hise and Bayley, 5704.
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 Laurel limestone, Foerste, 1839.
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 Lecompton shale, Haworth, 2375.
 Leda clay, Wilson, 6271.
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 Marcellus shale, Luther, 3602.
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 Marshall sandstone, Gordon, 2069.
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 Marshalltown shale, Beyer, 435.
 Mars Hill conglomerate, Gregory, 2166.
 Marsouin series, Dawson, 1423.
 Martinez group, Merriam, 3918.
 Martinez formation, Smith, 5039.
 Martinsburg formation, Clark, 912.
 Martinsburg shale, Darton, 1335.
 Martinsburg shale, Prosser, 4501.
 Martinsburg shale, Spencer, 5115.
 Maryville limestone, Campbell, 740.
 Massanutten sandstone, Spencer, 5115.
 Mata Chin formation, Hill, 2557.
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 Meagher limestone, Weed, 5953.
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 Mentor bed, Gould, 2075.
 Mentor beds, Jones, 2929.
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 Merced formation, Turner, 5472.
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 Merom sandstone, Blatchley and Ashley, 496.
 Mesnard quartzite, Van Hise, 5709.
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 Midland sands, Willis and Smith, 6216.
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 Millers River conglomerate, Shaler, Woodworth, and Foerste, 4940.
 Millsap limestone, Gilbert, 2005.
 Millstone grit, Fletcher, 1828.
 Milton formation, Turner, 5467.
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 Mission Creek series, Emmons, 1713.
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 Mohawkian, Clarke, 971.
 Mohawkian, Clarke and Schuchert, 965, 977.
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 Montego formation, Hill, 2564.
 Monterey formation, Clark, 912.
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 Niagara limestone, Blatchley and Ashley, 496.
 Niagara limestone, Calvin, 715.
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Adeorbis dalli n. sp., Harris, 2316.
holmesi Dall, Dall, 1259.
leai n. sp., Dall, 1259.
liniferus Ald., Harris, 2316.
strigillatus n. sp., Dall, 1259.
sylværupis n. sp., Harris, 2316.
Adiantites orovillensis Fontaine, Ward, 5857.
prælongus, Dawson, 1436.
Admetopsis humerosa n. sp., Stanton, 5191.
rhomboides Meek, Stanton, 5191.
subfusiformis Meek, Stanton, 5191.
Adocetus buprestoides n. sp., Seudder, 4900.
Adrana aldrichiana n. sp., Harris, 2307.
Aechmina Jones and Holl, Grabau, 2086.
marginata Ulrich, Grabau, 2086.
Aeglina (Cyclopyge), Beccher, 366.
Aelurodon meandrinus n. sp., Hatcher, 2335.
taxoides n. sp., Hatcher, 2335.
Aemondia ferrissi, Cragin, 1116.
Æscupophyllum hastingsense n. sp., Dawson, 1453.
Æsiocrinus n. gen., Miller and Gurley, 3991.
angulatus n. sp., Miller and Gurley, 3997a.
basilius n. sp., Miller and Gurley, 3991.
ganaster n. sp., Miller and Gurley, 3991.
harii n. sp., Miller and Gurley, 3991.
magnificus n. sp., Miller and Gurley, 3991.
Aesiocystites n. gen., Miller and Gurley, 3997c.
prisæus n. sp., Miller and Gurley, 3997c.
Aesopus erectus, Harris, 2316.
Aethocystites n. gen., Miller, 3995.
sculptis n. sp., Miller, 3995.
Agabus rathbuni n. sp., Seudder, 4900.
Agaricoecrinus (Troost) Hall, Wachsmuth and Springer, 5765a.

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- Agaricoerinus Troost, Keyes, 3061.
adamensis n. sp., Miller and Gurley, 4000.
americanus (Roemer), Keyes, 3061.
americanus (Roemer), Wachsmuth and Springer, 5765a.
americanus, var. tuberosus (Hall) W. and Sp., Wachsmuth and Springer, 5765a.
areula n. sp., Miller and Gurley, 3997d.
bellatrema Hall, Wachsmuth and Springer, 5765a.
bellatrema, var. major W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
blairi n. sp., Miller, 3995.
brevis (Hall), Wachsmuth and Springer, 5765a.
bullatus Hall, Wachsmuth and Springer, 5765a.
ehouteauensis n. sp., Miller, 3995.
eonieus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
convexus (Hall) W. and Sp., Wachsmuth and Springer, 5765a.
coreyi (Lyon and Cass.), Wachsmuth and Springer, 5765a.
erassus Wetherby, Wachsmuth and Springer, 5765a.
dissimilis n. sp., Miller, 3992.
elegans Wetherby, Wachsmuth and Springer, 5765a.
excavatus Hall, Wachsmuth and Springer, 5765a.
excavatus, Whitfield, 6098.
fiseellus (Hall), Wachsmuth and Springer, 5765a.
germanus n. sp., Miller, 3995.
gorbyi n. sp., Miller, 3992.
gracilis M. and W., Wachsmuth and Springer, 5765a.
hodgsoni n. sp., Miller and Gurley, 3999.
illinoisensis n. sp., Miller and Gurley, 3999.
indianensis n. sp., Miller, 3992.
inflatus Hall, Wachsmuth and Springer, 5765a.
iowensis n. sp., Miller and Gurley, 4003.
keokukensis n. sp., Miller and Gurley, 4003.
louisianensis n. sp., Rowley, 4677.
nodosus Meek and Worthen, Wachsmuth and Springer, 5765a.
nodulosus, var. macadamsi (Worthen), Wachsmuth and Springer, 5765a.
nodulosus Worthen, Wachsmuth and Springer, 5765a.
ornotrema, Whitfield, 6098.
pentagonus Hall, Keyes, 3061.
pentagonus, Whitfield, 6098.
planoconvexus Hall, Keyes, 3061.
planoconvexus Hall, Wachsmuth and Springer, 5765a.
profundus n. sp., Miller and Gurley, 3997d.
pyramidatus (Hall), Wachsmuth and Springer, 5765a.
pyramidatus, Whitfield, 6098.
sampsoni n. sp., Miller, 3995.
sampsoni S. A. Miller, Wachsmuth and Springer, 5765a.

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- Agaricoerinus splendens, Miller, 3992.
splendens n. sp., Miller and Gurley, 3991.
splendens S. A. Miller, Wachsmuth and Springer, 5765a.
stellatus Hall, Wachsmuth and Springer, 5765a.
tugurium n. sp., Miller and Gurley, 3997d.
whitfieldi Hall, Wachsmuth and Springer, 5765a.
wortheni Hall, Wachsmuth and Springer, 5765a.
Agasoma barkerianum n. sp., Cooper, 1071.
(Trophoscyon) n. subgen., Cooper, 1071.
? (Trophoscyon) kernianum, n. sp., Cooper, 1071.
Agassizocrinus ovalis n. sp., Miller and Gurley, 4000.
Agathaumus, Case, 768.
Agathaumus, Marsh, 3701.
Agelacrinus blairi n. sp., Miller, 3995.
faberi S. A. Miller, Miller and Faber, 3997.
legrandensis n. sp., Miller and Gurley, 3997c.
pileus, Miller and Faber, 3994.
pulasquensis u. sp., Miller and Gurley, 3997c.
Aglithodictya n. gen., Hall and Clarke, 2269, 2270.
numulina n. sp., Hall and Clarke, 2270, 2276.
Agnostus Brongniart, Matthew, 3770, 3788.
acadicus Hartt, Matthew, 3770.
acadicus Hartt, Vogdes, 5754.
acutitubus Matthew, Vogdes, 5754.
americanus Billings, Vogdes, 5754.
bellatrema Hall, Wachsmuth and Springer, 5765a.
bellatrema, var. major W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
bidens, Meek, Walcott, 5816.
bidens Meek, Vogdes, 5754.
canadensis Billings, Vogdes, 5754.
coloradensis Shumard, Vogdes, 5754.
communis Hall and Whitfield, Vogdes, 5754.
davidis Hicks, Matthew, 3770.
declivis, Matthew, 3770.
desideratus Walcott, Vogdes, 5754.
disparilis Hall, Vogdes, 5754.
fabius Billings, Vogdes, 5754.
fallax, Matthew, 3770.
var. coneinnus, Matthew, 3770.
var. trilobatus, Matthew, 3770.
var. vir, Matthew, 3770.
fissus Lindgren, Matthew, 3770, 3776.
var. trifissus n. var., Matthew, 3770.
galba Billings, Vogdes, 5754.
gibbus Linnarsson, Matthew, 3770.
var. acutitubus, Matthew, 3770.
var. partitus, Matthew, 3770.
interstriatus White, Walcott, 5816.
josepha Hall, Vogdes, 5754.
laevigatus Dalman var., Matthew, 3776.
laevigatus Dalman, Matthew, 3770.
cicerooides n. var., Matthew, 3770.

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- Agnostus mamilla* n. var., Matthew, 3770.
laevigatus Dolman, terranovicus n. var., Matthew, 3770.
maladensis Meek, Vogdes, 5754.
montis, Matthew, 3788.
nathorsti Brogger, Matthew 3770.
 var. *confluens* n. var., Matthew, 3770.
nathorsti Brogg, (?) mut., Matthew, 3776.
 cf. var. *nepos* Brogger, Matthew, 3776.
nudus, Beecher, 366.
nudus Beyrich, Matthew, 3770.
obtusilobus, Matthew, 3770.
obtusilobus Matthew, Vogdes, 5754.
orion Billings, Vogdes, 5754.
parillis Hall, Vogdes, 5754.
parvifrons, Linnarsson, Matthew, 3770, 3776.
pisiformis Linn., Matthew, 3781.
prolongus Hall and Whitfield, Vogdes, 5754.
punctuosus Angelin var., Matthew, 3776.
punctuosus Angelin, Matthew, 3770.
regulus, Matthew, 3770.
regulus Matthew, Vogdes, 5754.
rex, Beecher, 366.
rex var. *transectus* n. var., Matthew, 3770.
richmondensis Waleott, Vogdes, 5754.
seclusus Walecott, Vogdes, 5754.
tessella, Matthew, 3770.
 truncatus, n. var., Matthew, 3770.
tessella Matthew, Vogdes, 5754.
trisectus Salt., Matthew, 3751.
tumidosus Hall and Whitfield, Vogdes, 5754.
tumidosus Hall and Whitfield, Walecott, 5816.
umbo, Matthew, 3770.
umbo, Matthew, Vogdes, 5754.
umbro, mihi, mut., Matthew, 3776?
vir Matthew, Vogdes, 5754.
Agoniatites, Clarke, 962.
opimus (W. & W.), Weller, 6006.
Agraulos Hawle and Corda, 1847, Berkey, 429.
ceticephalus Barr. var. *carinatus* n. var., Matthew, 3776.
convexus Whitfield, Berkey, 429.
hemisphericus n. sp., Berkey, 429.
holocephalus mihi, Matthew, 3776.
 (?) *nanus* n. sp., Matthew, 3776.
 (?) *pusillus* n. sp., Matthew, 3776.
quadrangularis (Whitfield), Grabau, 2092.
roberti n. sp., Matthew, 3776.
(Strenuella) strenues Billings sp. var. *nasutus* Walecott, Burr, 666.
Agriocheilus Leidy, Scott, 4868.
Agriocheilus Wortman, 6487.
latifrons, Wortman, 6487.
Agriomeryx migrans n. gen. et sp., Marsh, 3690.
Agriotherium n. gen., Scott, 4883.
 paradoxiem n. sp., Scott, 4883.
Aguileria cummingsi White, Cragin, 1115.
Agyrtes primotiens n. sp., Scudder, 4900.
Aipoceras, Hyatt, 2816.
Alaba chiolana n. sp., Dall, 1259.

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- Alaba turrita* n. sp., Guppy and Dall, 2214.
Alaria rostrata, Whitfield, 6097.
Aleyonaria, Girty, 2032.
Aldrichia elegans, n. sp., Vaughan, 5735.
Allethopteris ambigua Lx., White, 6050.
 coxtioniana n. sp., White, 6052.
 discrepans Dn., White, 6052.
 evansii Lx., White, 6052.
 grandifolia Newb., White, 6052.
 laccii n. sp., White, 6052.
 lonchitica (Schloth.) Sternb., White, 6052.
 protaquilina n. sp., White, 6052.
 serlii (Brongn.) Goepf., White, 6049, 6050.
 var. *missouriensis* n. var., White, 6050.
Alcurosauros, Case, 768.
Aligena H. C. Lea, Dall, 1281.
 æquata, Conrad, Dall, 1281.
 elevata Stimpson, Dall, 1281.
 lineata n. sp., Dall, 1281.
 minor n. sp., Dall, 1281.
 pustulosa Dall, Dall, 1281.
Alismaeites dakotensis n. sp., Lesquereux, 3470.
Alloeodon fortis n. sp., Marsh, 3671.
 rarus n. sp., Marsh, 3671.
Alligatorællus, Case, 768.
Alloerinus benedicti n. sp., Miller, 3992.
Allodesma n. gen., Ulrich, 5539.
 subellipticum Ulrich, Ulrich, 5539.
Allonychia ovata n. gen. et sp., Ulrich, 5535.
 subrotunda n. sp., Ulrich, 5535.
Alloprosalloerinus Cass. and Lyon, Wachsmuth and Springer, 5765a.
 celsus n. sp., Miller and Gurley, 3997c.
 conicus Cass. and Lyon, Wachsmuth and Springer, 5765a.
 gurleyi n. sp., Miller, 3992.
Allopus littoralis n. gen. et sp., Marsh, 3686.
Allorisma andrewsi, Whitfield, 6099.
 arkansana n. sp., Weller, 5986.
 costata Meek and Worthen, Keyes, 3062.
 granosum (Shumard), Keyes, 3062.
 maxvillensis, Whitfield, 6099.
 subcuneata Meek, Herriek, and Johnson, 2465.
 subcuneatum Meek and Hayden, Keyes, 3062.
 walkeri n. sp., Weller, 5986.
 sp., Girty, 2039.
Allosaurus, Marsh, 3701.
 Osborn, 4218.
Anites crassus n. sp., Lesquereux, 3472.
 grandifolia Newb., Newberry, 4083.
Alnus alaskana Newberry, Knowlton, 3232.
 alaskana Newb., Newberry, 4083.
 carpinoides Lesquereux, Knowlton, 3262.
 grandifolia Newberry, Knowlton, 3232.
 searata Newb., Newberry, 4083.
 serrulata fossilis Newb. n. sp., Newberry, 4083.
 sp. ?, Newberry, 4083.
Aloiopteris erosa (Guth.), White, 6050.
 georgiana (Lx.), White, 6052.
 winslovii D. W., White, 6049.
 (Corynepteris?) *winslovii* n. sp., White, 6050.

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- Alota n. gen., Matthew, 3770.
 flexilis n. sp., Matthew, 3770.
 Alvalonia Walcott, Matthew, 3789.
 plana, n. sp., Matthew, 3789.
 Alveinus Conrad, Dall, 1281.
 rotundus n. sp., Dall, 1281.
 Alveolites, James, 2881.
 Alveolites Lamarck, Lambe, 3374.
 glomeratus, Say, 4813.
 goldfussi Billings, Lambe, 3374.
 (?) granulatus, James, 2881.
 labechei Milne-Edwards and Haime, Lambe, 3374.
 niagarensis Rominger, Lambe, 3374.
 squamosa Billings, Lambe, 3374.
 vallorum Meek, Lambe, 3374.
 Amalthea willeoxi n. sp., Dall, 1259.
 Amaradana n. sp., Seudder, 4900.
 powellii n. sp., Seudder, 4900.
 revocata n. sp., Seudder, 4900.
 sterilis n. sp., Seudder, 4900.
 veterata n. sp., Seudder, 4900.
 Amastrophia ? hemiplicata Hall sp., Winchell and Schuchert, 6319.
 var. rotunda n. var., Winchell and Schuchert, 6319.
 ? sciofidii n. sp., Winchell and Schuchert, 6319.
 Amaura (Amauropsis?) tombigbeensis n. sp., Harris, 2310.
 Amauropsis bulbiformis, Sowerby, Herrick and Johnson, 2465.
 bulbiformis (Sowerby), Stanton, 5191.
 jacksonensis n. sp., Harris, 2311.
 meekana n. sp., Whitfield, 6097.
 perovata Con., Harris, 2308.
 punctata, Whitfield, 6097.
 singleyi n. sp., Harris, 2307.
 utahensis, White, Herrick and Johnson, 2465.
 utahensis White, Stanton, 5191.
 Amberleya dilleri n. sp., Stanton, 5199.
 Ambloctonus sinuosus Cope, Osborn and Wortman, 4180.
 Amblysiphonella prosseri Clarke, Clarke, 956.
 Ambocelia Hall, Grabau, 2086.
 Ambocelia Hall, Hall and Clarke, 2261, 2264.
 levienula n. sp., Rowley, 4677a.
 nana Grabau, Grabau, 2086.
 parva n. sp., Weller, 5994.
 praeumbona Hall, Grabau, 2086.
 spinosa n. sp., Clarke, 946.
 spinosa n. sp., Hall and Clarke, 2261a, 2263.
 spinosa Clarke, Grabau, 2086.
 umbonata (Conrad), Grabau, 2086.
 var. nana, n. var., Grabau, 2086, 2087.
 Ambonychia Hall, emend Ulrich, Ulrich, 5539.
 affinis n. sp., Ulrich, 5539.
 amygdalina Hall, Ulrich, 5539.
 attenuata, Whitfield, 6102.
 bellistriata Hall, Ulrich, 5539.
 cincinnatiensis n. sp., Miller and Faber, 3996.
 erecta, Whitfield, 6102.
 lamellosa, Whitfield, 6102.
 planistriata Hall, Ulrich, 5539.

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- Ambonychia planistriata, Whitfield, 6102.
 Amelanchier similis Newb., Newberry, 4083.
 Ammodon leidyannus n. gen. et sp., Marsh, 3681.
 potens n. sp., Marsh, 3681.
 (Elotherium) bathrodon, Marsh, 3681.
 Ammonites complexus, Whitfield, 6097.
 delawarensis, Whitfield, 6097.
 dentato-carinatus, Whitfield, 6097.
 tefiler, Whitfield, 6097.
 vanuxemi, Whitfield, 6097.
 (Placenticeras) placenta, Whitfield, 6097.
 (Sphenodiscus) lenticularis, Whitfield, 6097.
 Ammosaurus, Marsh, 3701.
 Amnicola ? cretacea n. sp., Stanton, 5206.
 omphalotropis Pilsbry n. sp., Dall, 1259.
 yatesiana n. sp., Cooper, 1071.
 Ampheristocrinus Hall, Weller, 6002.
 dubius n. sp., Weller, 6002.
 Amphibaenus, Case, 767.
 grandiceps Cope, Hay, 2388.
 Amphichama Philippi, Dall, 1281.
 Amphicelina Laube, Hall and Clarke, 2264.
 Amphiclinodonta Bittner, Hall and Clarke, 2264.
 Amphictis, Riggs, 4641.
 Amphicyrta inhausa n. sp., Seudder, 4900.
 Amphidesma burnsi n. sp., Whitfield, 6101.
 subovata, Say, 4813.
 Amphigenia Hall, Hall and Clarke, 2261a, 2264.
 Amphihelia natchitochensis n. sp., Vaughan, 5735.
 Amphipeltis paradoxus Salter, Matthew, 3768.
 Amphispongia oblonga Salt., Rauff, 4548.
 Amphistegina lessonii, Bagg, 148.
 Amphitomella Bittner Hall and Clarke, 2264.
 Amphoraerinus Austin, Wachsmuth and Springer, 5765a.
 blari n. sp., Miller and Gurley, 3999.
 divergens (Hall), Wachsmuth and Springer, 5765a.
 divergens (Hall), Keyes, 3061.
 divergens, Whitfield, 6098.
 inflatus, Whitfield, 6098.
 jessiae n. sp., Miller and Gurley, 4001.
 sampsoni n. sp., Miller and Gurley, 4000.
 sedaliensis n. sp., Miller and Gurley, 3998.
 spinobrachiatus (Hall), Wachsmuth and Springer, 5765a.
 viminalis (Hall), Wachsmuth and Springer, 5765a.
 Amplexopora, Simpson, 4983.
 Amplexus Sowerby, Grabau, 2086.
 bicostatus n. sp., Miller, 3992.
 blairi Miller, Keyes, 3061.
 blairi n. sp., Miller, 3992.
 cinetatus n. sp., Miller, 3995.
 corniculatum n. sp., Miller, 3992.
 fragilis White and St. John, Keyes, 3061.
 hamiltoniae Hall, Grabau, 2086.
 (?) intermittens Hall, Grabau, 2086.
 (?) rockfordensis n. sp., Miller and Gurley, 4003.

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- Amplexus westii* n. sp., Beede, 386.
yandelli? Edwards and Haime, Keyes, 3061.
- Ampullina fischeri* n. sp., Dall, 1259.
recurva var., Harris, 2316.
solidula n. sp., Dall, 1259.
- Ampyx americanus* Vogdes and Safford, Vogdes, 5756.
halli Billings, Vogdes, 5756.
normalis Billings, Vogdes, 5756.
rutilius Billings, Vogdes, 5756.
semicostatus Billings, Vogdes, 5756.
- Amusium lyoni* Gabb, Dall, 1272.
papyraceum Gabb, Dall, 1272.
squamium, Harris, 2313.
- Amycla communis*, Whitfield, 6101.
Amynilyspes? sp., Seudder, 4897.
- Amynodon intermedius*, Osborn, 4190.
- Anabaia* (Clarke, Hall and Clarke 2261, 2264.
paraia n. sp., Clarke, 976.
- Anacardites antiquus* n. sp., Lesquereux, 3470.
- Anacodon ursidens* Cope, Osborn and Wortman, 4180.
- Ananchytes ovalis*, Clark, 892.
texana n. sp., Cragin, 1115.
- Anantina lineata*, Stanton, Herrick and Johnson, 2465.
- Anapella* Dall, Dall, 1272.
- Anaplogonia* Cope, Cope, 1104.
cloacina n. sp., Cope, 1101.
hiatidens Cope, Cope, 1104.
- Anaptomorphus homunculus* Cope, Osborn and Wortman, 4180.
- Anarcestes plebeiformis* Hall (sp.), Clarke, 962.
- Anastomopora* n. gen., Simpson, 4983.
- Anastrophia* Hall, Hall and Clarke, 2261a, 2264.
- Anastrophia*, n. sp., Clarke, 971.
- Anatina lineata* n. sp., Stanton, 5191.
texana n. sp., Cragin, 1115.
tosta n. sp., Cragin, 1115.
(Cercomya) punctata n. sp., Stanton, 5206.
semiradiata n. sp., Whiteaves, 6095a.
- Anatinella* Sowerby, Dall, 1272.
- Anchisaurus*, Case, 768.
- Anchisaurus*, Marsh, 3679, 3701.
colurus, Marsh, 3679.
solus n. sp., Marsh, 3679, 3701.
- Anchitherium minimus* n. sp., Douglas, 6540.
- Anchura abrupta*? Whitfield, 6097.
abrupta var. *acutispira* n. var., Whitfield, 6097.
arenaria, Whitfield, 6097.
kiowana n. sp., Cragin, 1118.
kiowana, Stanton, 5197.
modesta n. sp., Cragin, 1115.
pagodaformis n. sp., Whitfield, 6097.
pennata, Whitfield, 6097.
solitaria n. sp., Whitfield, 6097.
? sublaevis M. & H., Logan, 3554.
(Drepanocheilus) compressa n. sp., Whitfield, 6097.
ruida White, Herrick and Johnson, 2465.
ruida white, Stanton, 5191.
- Ancilla californica* n. sp., Cooper, 1071.

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- Ancilla* (Oliverato) n. sub-gen., Cooper, 1071.
(Olivula) staminea Con., Harris, 2316.
- Ancillaria shephardi* n. sp., Dall, 1259.
- Ancistroceras*, Hyatt, 2819.
- Ancodus brachyrhynchus*, Scott, 4875, 4869.
rostratus n. sp., Scott, 4875.
- Ancylopodia*, Osborn, 4185.
- Ancyrocrinus* Hall, Grabau, 2086.
bulbosus Hall, Grabau, 2086.
- Andromeda eretacea* n. sp., Lesquereux, 3470.
delicata Lx., Hollick, 2683.
colignitica n. sp., Hollick, 2683.
flexuosa n. sp., Newberry, 4080.
latifolia n. sp., Newberry, 4080.
linifolia n. sp., Lesquereux, 3470.
novæ-cæsareæ Hollick n. sp., Newberry, 4080.
parlatorii Heer, Hollick, 2696.
parlatori Heer, Lesquereux, 3472.
parlatorii Heer, var. *longifolia* n. var., Lesquereux, 3470.
parlatorii Heer, Newberry, 4080.
piäffiana Heer, Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
tenuinervis n. sp., Lesquereux, 3470.
wardiana n. sp., Lesquereux, 3470.
- Aneimites pottsvillensis* n. sp., White, 6052.
- Anemia perplexa* Hollick, Newberry, 4083.
stricta n. sp., Newberry, 4080.
suberetacea (Sap.) Gard. and Ett., Knowlton, 3264.
- Angelinoceras* n. gen., Hyatt, 2819.
- Angiopteridium californicum* Fontaine, Ward, 5857.
canmorense, Dawson, 1434.
- Anguinella* Conrad, Whitfield, 6101.
virginiana, Whitfield, 6101.
- Anisactinella* Bittner, Hall and Clarke, 2264.
- Anisoceras vancouverense*, Whiteaves, 6082.
- Anisodonta* Deshayes, Dall, 1281.
americana n. sp., Dall, 1281.
(Basterotia) bowdeniana n. sp., Dall, 1281.
(Fulerella) (elliptica Récluz? var.) *carolina* Dall, Dall, 1281.
- Anisonchus mandibularis* Cope, Osborn and Earle, 4191.
- Anisotrypa* sp., Girty, 2038.
- Annularia acicularis* (Dn.), Ren., White, 6052.
cuspidata Lx., White, 6052.
latifolia (Dn.) Kidst., White, 6052.
sphenophylloides (Zenk.) Guth., var. *intermedia* Lx., White, 6049.
sphenophylloides (Zenk.) Guth., White, 6040.
stellata (Schloth.) Wood, White, 6040, 6049, 6050.
var. angustifolia Lx.?, White, 6050.
- Anodonta nuttalliana*, var. *lignitica* n. var., Cooper, 1071.
- Anodontopsis affinis* n. sp., Whiteaves, 6096.
astrina, n. sp., Clarke, 976.
putilla, n. sp., Clarke, 976.
- Anognmus polymicrodus* Stewart, Stewart, 5244.
- Anolotichia* Ulrich, Ulrich, 5537.

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- Anolotichia impolita*, Ulrich, 5537.
Anomalina ammonoides (Reuss), Bagg, 150.
ammonoides Reuss sp., Woodward and Thomas, 6433.
grosserugosa (Gümbel), Bagg, 150.
grosserugosa (Gümbel), Chapman, 870.
rotula d'Orbigny, Chapman, 870.
Anomalocaris n. gen., Whiteaves, 6075.
anomalum, Hyatt, 2819.
Anomalodontia S. A. Miller, Ulrich, 5535.
alata, Ulrich, 5535.
plicata n. sp., Ulrich, 5535.
Anomaphyllites bridgetonensis n. sp., Hollick, 2694.
Anomalospongia reticulatus n. gen. et. sp., Ulrich, 5536.
Anomia (Linné) Müller, Dall, 1272.
aculeata Gmelin, Dall, 1272.
concentrica Meek, Stanton, 5191.
ephyppioides Gabb, Dall, 1272.
floridana n. sp., Dall, 1272.
limatula Dall, Dall, 1272.
linensis n. sp., Whiteaves, 6095a.
lisbonensis Aldrich, Dall, 1272.
megeei Clark, Clark, 906, 904.
microgrammata n. sp., Dall, 1272.
navicilloides n. sp., Aldrich, 76.
propatoris White?, Stanton, 5191.
ruffini Conrad, Dall, 1272.
senescens n. sp., Stanton, 5196.
simplex d'Orbigny, Dall, 1272.
subquadrata n. sp., Stanton, 5191.
texana n. sp., Hill, 539.
umbonata n. sp., Guppy and Dall, 2214, sp., Harris, 2313.
Anomocare magnus Brogger ? var., Matthews, 3776.
stenotides Matt., Matthew, 3781.
tuer Billings sp., Matthews, 3776.
Anomoclonella n. gen., Rauff, 4549.
zitteli n. sp., Rauff, 4549.
Anomozamites? *egyptiacus* Fontaine n. sp., Ward, 5857.
princeps (Oldham and Morris) Schimper?, Ward, 5857.
Anomphalus rotulus Meek and Worthen, Keyes, 3062.
Anoplia nucleata Hall, Clarke, 971.
Anoplotheca Sandberger, Hall and Clarke, 2261, 2264.
(Caelospira) Hall, Hall and Clarke, 2261.
(Caelospira) Hall), Hall and Clarke, 2264.
(Leptocœlia) Hall), Hall and Clarke, 2264.
Anoptera miseneri n. gen. et. sp., Ulrich, 5535.
Anosoceras vancouverense Gabb, Whiteaves, 6085.
Anser condoni n. sp., Shufeldt, 4960.
Anthocytis, Matthew, G. F., 3760.
Antholithus gaudium-rose n. sp., Ward, 5846.
Anthonomus aretus, Scudder, 4890.
concussus, Scudder, 4890.
corruptus, Scudder, 4890.
debilitatus, Scudder, 4890.
defossus, Scudder, 4890.
evigilatus, Scudder, 4890.

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- Anthonomus primordius*, Scudder, 4890.
reventus, Scudder, 4890.
revictus, Scudder, 4890.
soporos, Scudder, 4890.
Anthracoblattina americana n. sp., Scudder, 4898.
virginiensis, Scudder, 4898.
Anthracomartus woodruffi, Scudder, 4892.
Anthracomya arenacea (Dawson) Hind, Packard, 4229.
Anthracopupa ohioensis, Whitfield, 6099.
Anthracotherium curtum, Marsh, Osborn and Wortman, 4189.
karens n. sp., Osborn and Wortman, 4189.
Anthribus sordidus, Scudder, 4890.
Antillia biloba (Duchassaing), Gane, 235.
Antocha Osten Sacken, Scudder, 4894.
principalis, Scudder, 4894.
Aparchites Jones, Ulrich, 5540.
arrectus n. sp., Ulrich, 5540.
chatfieldensis n. sp., Ulrich, 5540.
ellipticus n. sp., Ulrich, 5540.
fimbriatus Ulrich, Ulrich, 5540.
granilabiat Ulrich, Ulrich, 5540.
millepunctatus Ulrich, Ulrich, 5540.
minutissimus Hall var. *trentonensis* n. var., Ulrich, 5540.
parvulus Jones, Whiteaves, 6087.
(?) robustus n. sp., Matthew, 3781.
secunda n. sp., Matthew, 3761.
whiteavessii Jones, Whiteaves, 6087.
Apateolepis, Clappole, 994.
Apatosaurus, Marsh, 3701, 3702.
Apeibopsis cyclophylla n. sp., Lesquereux 3470.
Apheleceras, Hyatt, 2816.
Aphelops fossiger Cope, Hatcher, 2335.
fossiger, Leidy, 3447.
Aphetoceras n. gen., Hyatt, 2819.
americanum n. sp., Hyatt, 2819.
attenuatum, Hyatt, 2819.
boreale n. sp., Hyatt, 2819.
farnsworthi, Hyatt, 2819.
Aphlebia arborescens Lx. sp., White, 6040.
cf. filiciformis (Gutb.) Sterzel., White, 6050.
germani Zeill, White, 6050.
membranacea (Lx.), White, 6050.
spinosa (Lx.), White, 6050.
subgoldenbergii n. sp., White, 6050.
sp. White, 6050.
Aphrophora sp., Scudder, 4895.
Apion confectum, Scudder, 4890.
curiosum, Scudder, 4890.
exanimale, Scudder, 4890.
evestigatum, Scudder, 4890.
pumilum, Scudder, 4890.
refrenatum, Scudder, 4890.
smithii, Scudder, 4890.
Apocynophyllum sapindifolium n. sp., Hollick, 2708.
sordidum n. sp., Lesquereux, 3470.
Apodidae Burmeister (emend after Packard), Schuchert, 4850.
Apodinae n. subfam., Schuchert, 4850.

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- Aporrhais gracilis* Ald., Harris, 2316.
castorensis Whitfield, Herrick and Johnson, 2465.
prolabiata White, Herrick and Johnson, 2465.
 (*Goniocheila*) *castorensis* Whitfield, Stanton, 5191.
 [*Perissoptera*?] *prolabiata* (White), Stanton, 5191.
 sp., Harris, 2310.
 sp., Stanton, 5199.
Aptychopsis Barrande, Matthew, 3790.
 (?) *knoxvillensis* n. sp., Stanton, 5199.
mexicanus n. sp., Aguilera, 57.
terranoivius, n. n. arcuatus, Matthew, 3790.
Apne caneriformis, Beecher, 366.
Aquila pliogryps n. sp., Shufeldt, 4960.
sodalis n. sp., Shufeldt, 4960.
Arachnophyllum diffluens Milne-Edwards and Haime sp., Lambe, 3375.
eximium Billings sp., Lambe, 3375.
Aralia berberidifolia n. sp., Lesquereux, 3470.
formosa Heer (?), Newberry, 4080.
grönlandica Heer, Lesquereux, 3470.
grönlandica Heer, Newberry, 4080.
macrophylla Newb., Newberry, 4083.
masoni n. sp., Lesquereux, 3470.
nassauensis n. sp., Hollick, 2672.
notata Lx., Knowlton, 3255.
palmata n. sp., Newberry, 4080.
patens n. sp., Newberry, 4080.
polymorpha n. sp., Newberry, 4080.
quinquepartita Lesq., Newberry, 4080, 4083.
rotundiloba n. sp., Newberry, 4080.
rotundiloba Newb. (?), Hollick, 2696.
saportanea Lesq., var. *deformata* n. var., Lesquereux, 3470.
scrrulata n. sp., Knowlton, 3255.
submarginata Lesq., Lesquereux, 3470.
towneri Lesq. (?), Hollick, 2698.
towneri Lesq., Lesquereux, 3470.
triloba Newb., Newberry, 4083.
wellingtoniana n. sp., Lesquereux, 3470.
wellingtoniana Lesq., Newberry, 4080.
whitneyi Lx., Knowlton, 3255.
wrightii n. sp., Knowlton, 3255.
Araucaria spatulata Newb., Newberry, 4083.
Araucarioxylon, Knowlton, 3229.
hoppertonæ Knowlton n. sp., Ward, 5856.
 (?) *obscurum* n. sp., Knowlton, 3260.
 (?) *obscurum* Knowlton n. sp., Ward, 5857.
virginianum Kn., Knowlton, 3251.
virginianum Knowlton, Ward, 5857.
woodworth Knowlton, Ward, 5857.
Araucarites cuneatus Ward n. sp., Fontaine, 1850.
ovatus n. sp., Hollick, 2698.
 (?) *pennsylvanicus* Fontaine n. sp., Ward, 5857.
reichenbachii Gein, Lesquereux, 3470.
wyomingensis n. sp., Fontaine, 1850.
yorkensis Fontaine n. sp., Ward, 5857.
Arca (Linné) Lamarek, Dall, 1272.
aquila Heilprin, Dall, 1272.
arata, Say, 4813.

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- Arca bordeniana* n. sp., Dall, 1272.
carolinensis Wagner, Dall, 1273.
centenaria, Say, 4813.
galliennei, var. *tramitensis*, n. var., Cragin, 1115.
hatchetigbeensis n. sp., Harris, 2313.
incile, Say, 4813.
labiata Sowerby var., Harris, 2309.
occidentalis Phillips, Dall, 1272.
paratina n. sp., Dall, 1272.
ponderosa var. *carolinensis*, Harris, 2309.
rhomboidella Lea var., Vaughan, 5722.
tehamensis n. sp., Stanton, 5199.
textrina n. sp., Stanton, 5199.
transversa var. *busana* n. var., Harris, 2309.
umbonata Lamarek, Dall, 1272.
virginiae Wagner, Dall, 1273.
wagneriana Dall, Dall, 1272.
 (*Barbatia*) (Gray) Adams, Dall, 1272.
 (*Latiarca*?) *idonea* (?), Whitfield, 6101.
 (*Lunarca*) (Gray) Adams, Dall, 1272.
 (*Nemodon*) *cumshewensis* n. sp., Whiteaves, 6095a.
simillima n. sp., Whiteaves, 6095a.
 (*Noetia*) Gray, Dall, 1272.
incile Say, Dall, 1272.
limula Conrad, Dall, 1272.
limula var. *platyura*, Dall, 1272.
 var. *filosa* Conrad, Dall, 1272.
ponderosa Say, Dall, 1272.
 (*Scapharca*) (Gray), Dall., 1272.
calipleura, Whitfield, 6101.
lineosa (?), Whitfield, 6101.
 (*Striarea*) *centenaria*, Whitfield, 6101.
 (*Trigonarca*) *siouxensis* M. and H. Cragin 1115.
 sp., Harris, 2310.
Archæosaurus, Case, 767.
Archæobelus vellicatus Cope, Case, 773.
Archæocidarisculeata Shumard, Keyes, 3061 3077.
agassizii Hall, Jackson, 2871.
agassizii Hall, Keyes, 3061, 3077.
biangulata Shumard, Keyes, 3061, 3077.
cratis White, Keyes, 3077.
dininnii White, Keyes, 3077.
drydenensis Vanuxem, Jackson, 2871.
drydenensis (Vanuxem), Keyes, 3077.
hallianus (Geinitz), Keyes, 3077.
illinoisensis Worthen and Miller, Keyes, 3077.
keokuk Hall, Keyes, 3077.
legrandensis n. sp., Miller and Gurley, 3991.
longispinus Newberry, Keyes, 3077.
megastylus Shumard, Keyes, 3061, 3077.
mucronata Meek and Worthen, Keyes, 3077.
norwoodi Hall, Keyes, 4077.
ornatus Newberry, Keyes, 3077.
shumardiana Hall, Keyes, 3077.
spinoclavatus Worthen and Miller, Keyes, 3077.
trudifer White, Keyes, 3077.

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- Archæocidaris* wortheni, Jackson, 2871.
 wortheni Hall, Keyes, 3061, 3077.
Archæocrinus Wachsmuth and Springer, Weller, 6002.
 asperatus n. sp., Miller and Gurley, 3997c.
 depressus n. sp., Weller, 6002.
 knoxensis n. sp., Miller and Gurley, 3997d.
 parvus n. sp., Miller and Gurley, 3997e.
 peculiaris n. sp., Miller and Gurley, 3997c.
Archæopteryx, Case, 769.
Archæoscyphiaminganensis (Billings) Hinde, Rauff, 4548.
Archelon ischyros, Wieband, 6128, 6136.
 marshi n. sp., Wieband, 6136.
Archæocyathus profundus, James, 2893.
Archeozoon, Dawson, 1448.
Archicorys, Matthew, G. F., 3760.
Archimedes, Simpson, 4983.
 owenanus Hall, Keyes, 3062.
 wortheni Hall, Keyes, 3062.
 sp., Girty, 2038.
Archimedipora, Simpson, 4983.
Archinacella n. gen., Ulrich and Scofield, 5541.
 cingulata n. sp., Ulrich and Scofield, 5541.
 deleta Sardeson sp., Ulrich and Scofield, 5541.
 depressa n. sp., Ulrich and Scofield, 5541.
 instabilis Billings var. *incurva*, n. var., Ulrich and Scofield, 5541.
 perovalis Whitfield sp., Ulrich and Scofield, 5541.
 powersi n. sp., Ulrich and Scofield, 5541.
 richmondensis n. sp., Ulrich and Scofield, 5541.
 rotunda n. sp., Ulrich and Scofield, 5541.
 rugatina n. sp., Ulrich and Scofield, 5541.
 semicarinata n. sp., Ulrich and Scofield, 5541.
 simulatrix n. sp., Ulrich and Scofield, 5541.
 subrotunda n. sp., Ulrich and Scofield, 5541.
 valida Sardeson sp., Ulrich and Scofield, 5541.
Architectonica annosa, Whitfield, 6097.
Archulus euphoberioides n. sp., Scudder, 4897.
 lyelli n. sp., Scudder, 4597.
 xylobioides Scudder, Scudder, 4897.
Areta puncticostata, Ami, 82.
Arctostaphylos elliptica n. sp., Knowlton, 3255.
Arenicolites Salter, Matthew, 3789.
 brevis? Matthew, 3789.
Arethusina konincki, Beecher, 366.
Arges consanguineus, Beecher, 366.
 wesenbergensis var. *paulianus* n. var., Clarke, 952.
Arionellus levis n. sp., Walcott, 5816.
 sp. undet., Walcott, 5816.
Arisema cretacea n. sp., Lesquereux, 3470.
 (?) *dubia* n. sp., Hollick, 2698.
 (?) *mattewanense* n. sp., Hollick, 2698.
Aristerella n. gen., Ulrich, 5539.

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- Aristerella nitidula* n. sp., Ulrich, 5539.
Aristolochia cordifolia Newb., Newberry, 4083.
Aristozoë Barraude, Grabau, 2092.
 canadensis n. sp., Whitfield, 6099.
Arnioceras nevadanum, Hyatt, 2818.
Arostichites linnæifolius (Bunbury) Fontaine, Ward, 5857.
 microphyllus Fontaine? Ward, 5857.
Arpedium stillicidii, Scudder, 4896.
Artemia gracilis, Beecher, 366.
Artena Conrad, Whitfield, 6101.
Arthracantha Williams, Wachsmuth and Springer, 5765a.
 depressa W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 ithacensis Williams, Wachsmuth and Springer, 5765a.
 punctobrachiata Williams, Wachsmuth and Springer, 5765a.
Arthroclema, Simpson, 4983.
Arthroclema, Billings, Ulrich, 5537.
 armatum Ulrich, Ulrich, 5537.
 cornutum Ulrich, Ulrich, 5537.
 striatum n. sp., Ulrich, 5537.
 sp. undet., Ulrich, 5537.
Arthrodia, Case, 766.
Arthropycus Hall, James, 2885.
 harlani, Conrad, Clarke, 976.
Arthropora, Simpson, 4983.
Arthropora, Ulrich, Ulrich, 5537.
 bifurcata n. sp., Ulrich, 5537.
 reversa n. sp., Ulrich, 5537.
 simplex Ulrich, Ulrich, 5537.
Arthrostylus, Simpson, 4983.
Arthrostylus, Ulrich, Ulrich, 5537.
 conjunctus Ulrich, Ulrich, 5537.
 obliquus Ulrich, Ulrich, 5537.
Artionyx, Osborn, 4185.
 gaudryi n. sp., Osborn and Wortman, 4180.
Artocarpidium cretaceum Ett., Lesquereux, 3470.
Artocarpophyllum occidentale n. sp., Dawson, 1436.
Artocarpus dubia n. sp., Hollick, 2708.
 lessigiana (Lx.) Kn., Hollick, 2708.
 pungens Lx., Hollick, 2708.
 quercoides n. sp., Knowlton, 3255.
Arystidictya n. gen., Hall and Clarke, 2269, 2270.
 elegans n. sp., Hall and Clarke, 2269, 2270.
 nodifera n. sp., Hall and Clarke, 2269, 2270.
Asaphis Modceer, Dall, 1281.
 canalis (?) Conrad, Cleland, 1012.
 centenaria Conrad, Dall, 1281.
 convexus?, Cleland, 1012.
 diurus Green, Clarke, 935.
 gigas De Kay, Whiteaves, 6087.
 (*Isotelus*) *susæ* Whitfield, Whiteaves, 6087.
Asoceras costulatum n. sp., Whiteaves, 6083, 6087.
Asodictyum, Simpson, 4983.

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- Asimina eocenica ? Lx., Knowlton, 3264.
 Asinima triloba, Dawson, G. M., 1418.
 Aspidella terranova Billings, Walcott, 5815.
 Aspidichthys ? notabilis n. sp., Whiteaves, 6096.
 Aspidiophyllum dentatum Lesq., Lesquereux, 3470.
 Aspidium fredericksburgense, Dawson, 1434.
 kennerlyi Newb., Newberry, 4083.
 virginicum Font., Ward, 5846.
 Aspidoceras alamitocensis n. sp., Aguilera, 57.
 Aspidopora, Simpson, 4983.
 Aspidopora, Ulrich, Ulrich, 5537.
 elegantula n. sp., Ulrich, 5537.
 parasitica Ulrich, Ulrich, 5537.
 Aspidorhynchus, Case, 766.
 Asplenium dicksonianum Heer ?, Fontaine, 1850.
 dicksonianum Heer, Lesquereux, 3470.
 dicksonianum Heer, Newberry, 4080.
 dicksonianum Heer, Ward, 5856.
 erosum ? (Lx.) Kn., Knowlton, 3255.
 foersteri Deb. and Ett. ?, Newberry, 4080.
 haguei n. sp., Knowlton, 3255.
 iddingsi n. sp., Knowlton, 3255.
 magnum n. sp., Knowlton, 3255.
 remotidens n. sp., Knowlton, 3255.
 tenellum n. sp., Knowlton, 3264.
 tenerum ? Lesquereux, Knowlton, 3262.
 wyomingense n. sp., Knowlton, 3264.
 sp., Knowlton, 3264.
 Astacus fluviatilis, Beecher, 366.
 Astarte aldrichiana n. sp., Harris, 2310.
 californica n. sp., Stanton, 5199.
 corrugata n. sp., Stanton, 5199.
 cuneiformis, Whitfield, 6101.
 distant, Whitfield, 6101.
 marylandica n. sp., Clark, 1904, 1906.
 meeki n. sp., Stanton, 5206.
 packardii White, Logan, 3559.
 semidentata n. sp., Cooper, 1071.
 smithvillensis n. sp., Harris, 2307, 2311.
 smithvillensis var., Harris, 2313, 2315.
 smithvillensis var. mediavia, Harris, 2310.
 subponti n. sp., Harris, 2310.
 symmetrica, Whitfield, 6101.
 thomasi, Whitfield, 6101.
 trapezoidalis n. sp., Stanton, 5199.
 undulata, Say, 4813.
 vicina, Say, 4813.
 (? Stearnsia) acuminata n. sp., Cragin, 1115.
 Astartella vera Hall, Keyes, 3062.
 Asterias (?) dubium Whitfield, Clark, 892.
 dubium Whitfield, Logan, 3559.
 Asterocepus falcatus (Emmons) Fontaine, Ward, 5857.
 Asterophyllites arkansanus n. nom. White, 6052.
 equisetiformis (Schloth.) Brongn., White, 6049, 6050.
 longifolius (Stb.) Brongn., White, 6050.
 parvulus Dn., White, 6052.
 Astropythichus gracilis Newb., Newberry, 4082.

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- Asthenodonta westoni n. sp., Whiteaves, 6079.
 Astralites n. gen., Whiteaves, 6074.
 fimbriatus n. sp., Whiteaves, 6074.
 Astralium precursor n. sp., Dall, 1259.
 (Lithopoma) chipolanum n. sp., Dall, 1259.
 Astrangia expansa n. sp., Vaughan, 5735.
 harrisii n. sp., Vaughan, 5735.
 lineata (Conrad), Gane, 1934.
 ludoviciana n. sp., Vaughan, 5735.
 wilcoxensis n. sp., Vaughan, 5735.
 Astrapis desiderata n. sp., Walcott, 5780.
 Astrocladia (?) elegans, Matthew, 3761.
 ? elongata, Matthew, 3761.
 ? virguloides, Matthew, 3761.
 Astrocenia conica n. sp., Logan, 3555.
 granti Sollas, Rauff, 4548.
 pumpellyi n. sp., Vaughan, 5735.
 Astrocystides ottawaensis n. sp., Whiteaves, 6087.
 Astroclapsis tumidus Rémond, Merriam, 3922.
 whitneyi Rémond, Merriam, 3922.
 Astrohelia burnsi n. sp., Vaughan, 5735.
 neglecta n. sp., Vaughan, 5735.
 Astroporites ottawaensis n. sp., Lambe, 3373.
 Astylomanon cratera, Rauff, 4548.
 cratera aryballium, Rauff, 4548.
 balantium, Rauff, 4548.
 cantharium, Rauff, 4548.
 cylinx, Rauff, 4548.
 lecythium, Rauff, 4548.
 patera, Rauff, 4548.
 poterium, Rauff, 4548.
 promiscum, Rauff, 4548.
 pluriexcavatum n. sp., Rauff, 4548.
 prototypum, Rauff, 4548.
 verrucosum n. sp., Rauff, 4548.
 verrucosum var. bullifera, Rauff, 4548.
 Astylopongia, James, 2881.
 piamassa, Walker, 5820.
 præmorsa var. pusilla (?), Rauff, 4548.
 (?) (Palæomanon ?) bursa Hall, Rauff, 4548.
 Astyris bastropensis n. sp., Harris, 2307.
 subfraxa n. sp., Harris, 2316.
 Asymptoceras, Hyatt, 2816.
 newtoni n. sp., Hay, 2389.
 Atactodea Dall, Dall, 1272.
 Atactopora, Simpson, 4983.
 Atactoporella, Simpson, 4983.
 Atactoporella Ulrich, Ulrich, 5537.
 crassa n. sp., Ulrich, 5537.
 insueta n. sp., Ulrich, 5537.
 remosa n. sp., Ulrich, 5537.
 typicalis var. præcepta, n. var., Ulrich, 5537.
 Atænius patescens, Scudder, 4900.
 Atelodus neumayri n. sp., Osborn, 4221.
 Athrotaxopsis tenuicaulis Fontaine, Fontaine, 1850.
 Athyris McCoy, Grabau, 2086.
 Athyris McCoy, Hall and Clarke, 2261, 2264.
 argentea (Shepard) Keyes, 3062.
 brittsi n. sp., Miller, 3995.
 coloradoensis n. sp., Girty, 2039.
 corpulenta (Win.). Weller, 6006.

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- Athyris densa* n. sp., Hall and Clarke, 2261a, 2263, 2268.
hannibalensis (Swallow), Keyes, 3062.
incrassata Hall (?), Girty, 2038.
incrassatus Hall, Keyes, 3062.
lamellosa, Herrick and Johnson, 2465.
lamellosa Léveillé, Girty, 2038.
lamellosa (Léveillé), Weller, 5994.
missouriensis n. sp., Miller, 3995.
ottervillensis n. sp., Miller, 3995.
spiriferoides (Eaton), Grabau, 2086.
subquadrata Hall, Weller, 5986.
subquadrata, Whitfield, 6099.
subtilita, Whitfield, 6099.
tenuilineata n. sp., Rowley, 4677a.
vittata var., Girty, 2039.
vittata Hall, Keyes, 3062.
vittata var. *triplicata* n. var., Girty, 2038.
(*Actinoconchus*) McCoy, Hall and Clarke, 2261.
(*Cleiothyris*?) sp., Weller, 5994.
(*Cliothyris*) King, Hall and Clarke, 2261, 2264.
(*Seminula*) McCoy, Hall and Clarke, 2261, 2264.
(*Spirigerella*) Waagen, Hall and Clarke, 2261, 2264.
Atlantosaurus, Marsh, 3701, 3702.
Atocus n. gen., Scudder, 4889.
defessus, Scudder, 4889.
Atops, subgen., Matthew, 3789.
trilineatus Emmons, Matthew, 3789.
Atresius liratus Gabb, Stanton, 5199.
Atrina argentea Conrad, Dall, 1272.
harrisii n. sp., Dall, 1272.
jacksoniana n. sp., Dall, 1272.
rigida Dillwyn, Dall, 1272.
serrata Sowerby, Dall, 1272.
(*Argentea*?) *chipolana* n. sp., Dall, 1272.
Atrypa Dalman, Grabau, 2086.
Atrypa Dalman, Hall and Clarke, 2261, 2264.
gregeri n. sp., Rowley, 4677a.
lati-corrugata n. sp., Foerste, 1835.
marginalis, Foerste, 1835.
missouriensis Miller, Girty, 2038.
occidentalis Hall, Keyes, 3062.
reticularis Linné, Girty, 2038.
reticularis (Linnaeus), Grabau, 2086.
reticularis (Linnaeus), Keyes, 3062.
spinosa Hall, Grabau, 2086.
(*Gruenewaldtia*) Tschernyschew, Hall and Clarke, 2261, 2264.
Atrypina Hall, Hall and Clarke, 2261, 2264.
clintoni, Hall and Clarke, 2268.
Attagenus sopitus n. sp., Scudder, 2900.
Aturia morrissi Michelloti, Hyatt, 2819.
vanuxemi, Whitfield, 6097.
zizac, Bronn., Hyatt, 2819.
Atys obscurata n. sp., Dall, 1269.
cedemata n. sp., Dall, 1269.
robustoides n. sp., Aldrich, 73.
robustoides?, Harris, 2310, 2316.
salina n. sp., Dall, 1269.
(*Acrostemma*) *gracilis* n. sp., Dall, 1269.
Aublysodon Leidy, Marsh, 3674.

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- Aucella Keyserling*, Stanton, 5199.
aviculariformis, Hyatt, 2818.
crassifolliis Keyserling, Stanton, 5199.
elongata n. sp., Hyatt, 2818.
erringtoni, var. *arcuata*, Hyatt, 2818.
orbicularis, Hyatt, 2818.
piochii Gabb, Stanton, 5199.
Aucullæa (*Idonearca*) *terminalis* n. var. *recedens*, Cragin, 1116.
Aulacopella winnipegensis Rauff, Whiteaves, 6087.
Aulacorhynchus Dittmar, Hall and Clarke, 2261a, 2264.
Auletes wymani, Scudder, 4890.
Aulobaris anicilla, Scudder, 4890.
circumscripita, Scudder, 4890.
comminuta, Scudder, 4890.
damnata, Scudder, 4890.
Aulocopella winnipegensis Rauff, 4549.
Aulocopina granti, Walker, 5820.
Aulocrinus agassizi, Springer, 5163.
Aulonotreta Kurtoga, Hall and Clarke, 2260.
Aulopora, Girty, 2032.
Aulopora Goldfuss, Grabau, 2086.
anna n. sp., Beede, 386.
geometrica n. sp., Girty, 2038.
gracilis n. sp., Keyes, 3061.
prosseri n. sp., Beede, 386.
cf. schoharic, Hall and Clarke, 971.
serpens Goldf., Grabau, 2086.
subtenuis Hall, Girty, 2034.
? *trentonensis* n. sp., Winchell and Schuchert, 6318.
tubæformis Goldf., Grabau, 2086.
Aulosteges von Helmersen, Hall and Clarke, 2260.
Auricula neumayri n. sp., White, 6035.
Austriella Bittner, Hall and Clarke, 2264.
Autodetus Lindström, Grabau, 2086.
beechei n. sp., Clarke, 942, 971.
lindströmi n. sp., Clarke, 942.
lindströmi Clarke, Grabau, 2086.
Avalonia acadica n. sp., Matthew, 3761.
Avellana bullata, Whitfield, 6097.
bullata Mort., Harris, 2315.
Avicula beedei n. sp., Logan, 3559.
belviderensis n. sp., Cragin, 1116.
belviderensis, Stanton, 5197.
dispar n. sp., Cragin, 1118.
gastrodes Meek, Herrick and Johnson, 2465.
gastrodes Meek, Logan, 3554.
gastrodes Meek, Stanton, 5191.
leveretti n. sp., Cragin, 1115.
leveretti, Stanton, 5197.
longa (Geinitz), Keyes, 3062.
macronotus Meek, Logan, 3559.
singleyi n. sp., Cragin, 1115.
strigosa (White), Weller, 6006.
whitfieldi, Foerste, 1835.
whiteavesi Stanton, Whiteaves, 6095.
wyomingensis n. sp., Stanton, 5206.
(*Oxytoma*) *whiteavesi* n. sp., Stanton, 5199.
sp., Harris, 2310, 2313.
Avicularium Gray, Dall, 1281.

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- Aviculopecten McCoy, Grabau, 2086.
 areolatus n. sp., Cooper [Crenipecten?],
 Lanc, 3400.
 batesvillensis n. sp., Weller, 5986.
 cardoniferus (Stevens), Keyes, 3062.
 caroli Win., Weller, 6006.
 (?) equilatera, Whitfield, 6099.
 exacutus Hall, Grabau, 2086.
 fasciculatus Keyes, Keyes, 3062.
 germanus n. sp., Miller and Faber, 3994.
 insignis Hall, Grabau, 2086.
 ?interlineatus Meek and Worthen, Keyes,
 3062.
 interlineatus, Whitfield, 6099.
 lautus var. ithacensis n. var., Kindel, 3168.
 magna (Swallow), Keyes, 3062.
 occidentalis (Shumard), Girty, 2037.
 occidentalis (Shumard), Keyes, 3062.
 princeps (Conrad), Grabau, 2086.
 retilaterarius Cox, Drake, 1539.
 sculptilis n. sp., Miller, 3992.
 tenuicostus Win., Weller, 6006.
 sp.?, Clarke, 971.
 ?, sp., Weller, 5986.
 Aviculopinna americana Meek, Keyes, 3062.
 Axinea lentiformis (?), Whitfield, 6101.
 Axinella (?), Merrill, 3969.
 Axophyllum rude White and St. John, Keyes,
 3061.
 Azygograptus (?) walcotti Lapworth n. sp.,
 Gurley, 2217.
 Bactrites, Clarke, 943.
 Bactrites Sandberger, Clarke, 960.
 Bactrites Sandberger, Grabau, 2086.
 aciculum Hall (sp.), Clarke, 960.
 aciculum (Hall), Grabau, 2086.
 gracilior Clarke, Grabau, 2086.
 gracilior n. sp., Clarke, 960.
 Bactropora, Simpson, 4983.
 Bactrynum Emmrich, Hall and Clarke, 2264.
 Baculites Lam., Say, 4813.
 anceps, Harris, 2315.
 asper, Whitfield, 6097.
 asper Morton?, Stanton, 5191.
 chicoensis Trask, Whiteaves, 6084.
 compressa, Say, 4813.
 compressus, Whitfield, 6097.
 gracilis Shumard?, Stanton, 5191.
 nodosus var. brevis Meek, Logan, 3554.
 ovata, Say, 4813.
 ovatus Say, Logan, 3554.
 ovatus, Whitfield, 6097.
 Baiera incurvata Heer (?), Newberry, 4080.
 muensteriana (Presl.) Heer?, Ward, 5857.
 multifida Fontaine?, Ward, 5857.
 Baieropsis adiantifolia Fontaine, Fontaine,
 1850.
 pluripartita Fontaine?, Fontaine, 1850.
 Bairdia McCoy, Grabau, 2086.
 leguminoides Ulrich, Grabau, 2086.
 Balanidae, Cope, 1096.
 Balanoptera sursiplana n. sp., Cope, 1096.
 Balaninus anicularis, Scudder, 4890.
 duttoni, Scudder, 4890.
 femoratus, Scudder, 4890.

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Genera and species described—Continued.

- Balaninus flexirostris, Scudder, 4890.
 minusculus, Scudder, 4890.
 restrictus, Scudder, 4890.
 Balanophyllia annularis n. sp., Vaughan, 5735.
 augustincensis n. sp., Vaughan, 5735.
 caulifera (Conrad), Vaughan, 5735.
 var. multigranosa n. var., Vaughan,
 5735.
 desmophyllum Milne-Edwards and
 Haime, Vaughan, 5735.
 var. microcostata n. var., Vaughan,
 5735.
 elongata n. sp., Vaughan, 5735.
 haleana (Milne-Edwards and Haime),
 Vaughan, 5735.
 inauris n. sp., Vaughan, 5735.
 irrorata (Conrad), Vaughan, 5735.
 var. coniformis n. var., Vaughan, 5735.
 var. dichotoma (Gabb and Horn),
 Vaughan, 5735.
 var. mortoni (Gabb and Horn),
 Vaughan, 5735.
 ponderosa n. sp., Vaughan, 5735.
 Balanus proetus, Whitfield, 6101.
 Banksia pusilla Vel., Hollick, 2698.
 Baptonodon discus, Marsh, 3695.
 natans, Marsh, 3695.
 Baptonodus, Williston, 6245.
 onchognathus, Williston, 6245.
 Barbarothesa n. gen., Scudder, 4889.
 florissanti, Scudder, 4889.
 Barbatia cuculoides var., Harris, 2313, 2315.
 marylandica, Whitfield, 6101.
 micronema, Meek (sp.), Herrick and
 Johnson, 2465.
 micronema (Meek), Stanton, 5191.
 (Acar) reticulata Gmelin, Dall, 1272.
 (Calloarca) arcuata Heilprin, Dall, 1272.
 candida Gmelin, Dall, 1272.
 cuculoides Conrad, Dall, 1272.
 irregularis n. sp., Dall, 1272.
 marylandica Conrad, Dall, 1272.
 phalacra n. sp., Dall, 1272.
 (Cucullaria) aldrichi n. sp., Dall, 1272.
 tæniata n. sp., Dall, 1272.
 (Fossularca) adamsi (Shuttleworth)
 Smith, Dall, 1272.
 ovalina n. sp., Dall, 1272.
 (Granoarca) propatula Conrad, Dall, 1272.
 virginiae Wagner, Dall, 1272.
 (Striarca) centenaria Say, Dall, 1272.
 Baris divisa, Scudder, 4890.
 harlani, Scudder, 4890.
 imperfecta, Scudder, 4890.
 matura, Scudder, 4890.
 Barnea (Leach MS.) Riss, Dall, 1272.
 truncata Say, Dall, 1272.
 (Scobina) arcuata Conrad, Dall, 1272.
 costata Linné, Dall, 1272.
 Baropus lentus, n. gen. et sp., Marsh, 3686.
 Barornis regens, Marsh, 3691.
 Barrandella nom. propos., Hall and Clarke,
 2261a, 2264.
 areyi n. sp., Hall and Clarke, 2261a, 2263,
 2268.

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- Barrandocerat* *convolvans*, Hyatt, 2819.
elrodi, Hyatt, 2819.
minganense, Hyatt, 2819.
natator, Hyatt, 2819.
sacheri, Hyatt, 2819.
sternbergi, Hyatt, 2819.
subcostulatum nom. prov., Whiteaves, 6089.
tyrannum, Hyatt, 2819.
Barrandocerinus *Angelini*, Wachsmuth and Springer, 5765a.
Barrettia *Woodwardi*, Whitfield, 6108.
multilirata n. sp., Whitfield, 6108.
sparcilirata n. sp., Whitfield, 6108.
Barroisella n. gen., Hall and Clarke, 2260.
Barycerinus *elrodi* n. sp., Miller and Gurley, 3999.
expansus n. sp., Miller and Gurley, 3997c.
formosus n. sp., Miller and Gurley, 3997a.
hoveyi (Hall), Keyes, 3061.
magnificus Meek and Worthen, Keyes, 3061.
neglectus n. sp., Miller and Gurley, 4000.
principes n. sp., Miller and Gurley, 3991.
saunsoni n. sp., Miller and Gurley, 4001.
sculptilis, Whitfield, 6098.
spurius (Hall), Keyes, 3061.
stellifer n. sp., Miller, 3995.
washingtonensis n. sp., Miller and Gurley, 3997d.
Basilosaurus *ectoides* (Owen), Lucas, 3588.
Bathyriscus Meek, Matthew, 3788.
Bathyriscus Meek?, Walcott, 5816.
howelli Walcott, Matthew, 3788.
pupa n. sp., Matthew, 3788.
senectus Billings sp., Matthew, 3776.
Bathyrus *ellipticus* n. s., Cleland, 1012.
extans Hall (sp.), 1847, Clarke, 952.
perkinsi n. sp., Whitfield, 6106.
schucherti n. sp., Clarke, 952.
spiniger Hall (sp.), 1847, Clarke, 952.
sp.?, Cleland, 1012.
Batocrinus *Cassedayi*, Wachsmuth and Springer, 5765a.
adamensis n. sp., Miller and Gurley, 3999.
aequabilis n. sp., Miller and Gurley, 3997a.
aequalis (Hall), Keyes, 3061.
aequalis (Hall), Wachsmuth and Springer, 5765a.
aequibrachiatus var. *alatus*, Whitfield, 6098.
affinis n. sp., Miller and Gurley, 4001.
agnatus n. sp., Miller, 3992.
albersi n. sp., Miller and Gurley, 4001.
altiusculus n. sp., Miller and Gurley, 3997a.
approximatus n. sp., Miller and Gurley, 4001.
areula n. sp., Miller and Gurley, 3997d.
argutus n. sp., Miller and Gurley, 3999, 4001.
asper n. sp., Miller and Gurley, 3999.
asperatus n. sp., Miller and Gurley, 3999.
aspratilis n. sp., Miller and Gurley, 3997a.
basilius n. sp., Miller and Gurley, 3999.

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- Batocrinus* *bisbrachiatus* n. sp., Whitfield, 6098.
blairi n. sp., Miller, 3995.
boonvillensis n. sp., Miller, 3992.
brittsi n. sp., Miller, 3995.
broadheadi n. sp., Miller and Gurley, 3998.
burketi n. sp., Miller and Gurley, 3997d.
calvini Rowley, Keyes, 3061.
calvini Rowley, Wachsmuth and Springer, 5765a.
cantonensis M. and G., Wachsmuth and Springer, 5765a.
cantonensis n. sp., Miller and Gurley, 3991.
casualis n. sp., Miller and Gurley, 3997d.
casula n. sp., Miller and Gurley, 3997d.
eistula n. sp., Miller and Gurley, 3999.
elypeatus (Hall), Wachsmuth and Springer, 5765a.
cognatus n. sp., Miller and Gurley, 4001.
comparilis n. sp., Miller, 3995.
complanatus n. sp., Miller and Gurley, 4001.
consanguineus n. sp., Miller and Gurley, 4001.
copiosus n. sp., Miller and Gurley, 3997c.
crawfordsvillensis n. sp., Miller, 3992.
curiosus n. sp., Miller and Gurley, 3997d.
decorus n. sp., Miller, 3992.
decrepitus n. sp., Miller, 3995.
delicatulus n. sp., Miller and Gurley, 4000.
discoideus, Whitfield, 6098.
divalis n. sp., Miller, 3995.
douglassi n. sp., Miller and Gurley, 4003.
enodatus n. sp., Miller and Gurley, 4001.
enodis n. sp., Miller and Gurley, 4001.
faberi n. sp., Miller and Gurley, 4000.
facetus n. sp., Miller and Gurley, 3991.
folliculus n. sp., Miller and Gurley, 3999.
formaceus n. sp., Miller and Gurley, 3998.
genista n. sp., Miller and Gurley, 3991.
germanus, n. sp., Miller and Gurley, 3999.
glaber n. sp., Miller and Gurley, 4001.
gorbyi n. sp., Miller, 3992.
grandis (Lyon), Wachsmuth and Springer, 5765a.
gurleyi n. sp., Miller, 3992.
heteroclitus n. sp., Miller and Gurley, 3998.
hodgsoni n. sp., Miller and Gurley, 3999.
honorabilis n. sp., Miller and Gurley, 3997d.
icosidactylus *Cassedayi*, Miller, 3995.
icosidactylus *Cassedayi*, Wachsmuth and Springer, 5765a.
inconsuetus n. sp., Miller and Gurley, 3998.
ineultus n. sp., Miller and Gurley, 3998.
ignotus n. sp., Miller and Gurley, 3998.
imparilis n. sp., Miller and Gurley, 3998.
inopinatus n. sp., Miller and Gurley, 3998.
inornatus, Whitfield, 6098.
insolens n. sp., Miller and Gurley, 4001.
insperatus n. sp., Miller and Gurley, 3998.
insuetus n. sp., Miller and Gurley, 3998.
irregularis *Cassedayi*, Miller, 3995.
irregularis *Cassedayi*, Wachsmuth and Springer, 5765a.

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Genera and species described—Continued.

- Batoerinus jessicae* n. sp., Miller and Gurley, 3999.
- jucundus* n. sp., Miller and Gurley, 3991.
- labellum* n. sp., Miller and Gurley, 3997d.
- laciniosus* n. sp., Miller and Gurley, 3997d.
- latus* n. sp., Miller and Gurley, 3997a.
- laterna* n. sp., Miller and Gurley, 3997d.
- laura* (Hall), Keyes, 3061.
- laura* (Hall), Wachsmuth and Springer, 5765a.
- laura*, var. *sinuosus* (Hall), Wachsmuth and Springer, 5765a.
- laura*, Whitfield, 6098.
- legrandensis* n. sp., Miller and Gurley, 3991.
- lepidus* (Hall), Wachsmuth and Springer, 5765a.
- lepidus*, Whitfield, 6098.
- levigatus* n. sp., Miller and Gurley, 4001.
- levis* n. sp., Miller and Gurley, 4001.
- longirostris* (Hall), Keyes, 3061.
- lyonanus* n. sp., Miller and Gurley, 3997a.
- macbridei* W. and Sp., Wachsmuth and Springer, 5765a.
- marinus* n. sp., Miller and Gurley, 3991.
- medioeris* n. sp., Miller, 3992.
- modestus* n. sp., Miller and Gurley, 3998.
- modulus* n. sp., Miller and Gurley, 3999.
- mundulus* (Hall), Wachsmuth and Springer, 5765a.
- nanus* n. sp., Miller and Gurley, 3999.
- nashvillae* (Troost), Keyes, 3061.
- niteus* n. sp., Miller and Gurley, 4000.
- nitidulus* n. sp., Miller and Gurley, 3998.
- nodolusus* n. sp., Miller and Gurley, 4000.
- nodosarius* n. sp., Miller and Gurley, 4001.
- nodosus* n. sp., Miller and Gurley, 4000.
- oblatus*, Whitfield, 6098.
- parilis* n. sp., Miller and Gurley, 4000.
- peculiaris* n. sp., Miller and Gurley, 3998.
- pettisciens* n. sp., Miller and Gurley, 4000.
- pileus* n. sp., Miller and Gurley, 3997d.
- pistillus* (M. and W.), Wachsmuth and Springer, 5765a.
- planus* n. sp., Miller and Gurley, 3998.
- poculum* Miller and Gurley, Wachsmuth and Springer, 5765a.
- poculum* n. sp., Miller and Gurley, 3991.
- politus* n. sp., Miller and Gurley, 4001.
- polydactylus* n. sp., Miller and Gurley, 3998.
- procerus* n. sp., Miller and Gurley, 3998.
- prodigialis* n. sp., Miller and Gurley, 3998.
- proximus* n. sp., Miller and Gurley, 3999.
- pulchellus* n. sp., Miller, 3992.
- pyriformis* (Shumard), Keyes, 3061.
- quasillus* (Meek and Worth), Wachsmuth and Springer, 5765a.
- regalis* n. sp., Miller and Gurley, 4000.
- reliquus* n. sp., Miller and Gurley, 4003.
- remotus* n. sp., Miller and Gurley, 4001.
- repertus* n. sp., Miller and Gurley, 4001.
- repositus* n. sp., Miller and Gurley, 4001.
- reservatus* n. sp., Miller and Gurley, 4003.
- rotadentatus* Rowley and Hare, Wachsmuth and Springer, 5765a.

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- Batoerinus rotuliformis* n. sp., Miller and Gurley, 4003.
- rotundus* (Yandell and Shumard), Keyes, 3061.
- rudis* n. sp., Miller and Gurley, 4001.
- rusticellus* n. sp., Miller and Gurley, 4003.
- (?) *rusticus* n. sp., Miller and Gurley, 4003.
- sacculus* n. sp., Miller and Gurley, 4001.
- sacculus* n. sp., Miller and Gurley, 3997c.
- sagetownensis* n. sp., Miller and Gurley, 4001.
- salemensis* n. sp., Miller and Gurley, 4001.
- sampsoni* n. sp., Miller and Gurley, 3998.
- scitulus* n. sp., Miller and Gurley, 4003.
- scopae* n. sp., Miller and Gurley, 3991.
- scyphus* n. sp., Miller and Gurley, 3997a.
- sedaliensis* n. sp., Miller and Gurley, 4001.
- selectus* n. sp., Miller and Gurley, 4001.
- senex* n. sp., Miller and Gurley, 4003.
- serratus* n. sp., Miller and Gurley, 3998.
- sharonensis* n. sp., Miller and Gurley, 4003.
- shepardi* n. sp., Rowley, 4673.
- signatus* n. sp., Miller and Gurley, 4000.
- solitarius* n. sp., Miller and Gurley, 3999.
- spartarius* n. sp., Miller and Gurley, 3991.
- speciosus* n. sp., Miller and Gurley, 4001.
- spergenensis* n. sp., Miller, 3992.
- spinosus* n. sp., Miller and Gurley, 3997d.
- (?) *springeri* n. sp., Rowley, 4677.
- spurius* n. sp., Miller and Gurley, 4000.
- stelliformis* n. sp., Miller and Gurley, 4000.
- strenuus* n. sp., Miller and Gurley, 4000.
- subaequalis* (McChesney), Wachsmuth and Springer, 5765a.
- subaequatus* n. sp., Miller and Gurley, 4001.
- sublevis* n. sp., Miller and Gurley, 4001.
- subovatus* n. sp., Miller and Gurley, 4001.
- subrotundus* n. sp., Miller and Gurley, 4001.
- subscitulus* n. sp., Miller and Gurley, 4001.
- trobiscus*, Meek and Worthen, Keyes, 3061.
- tuberculatus* W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
- turbinatus* (Hall), Wachsmuth and Springer, 5765a.
- turbinatus*, var. *elegans* Hall, Wachsmuth and Springer, 5765a.
- variabilis* n. sp., Miller and Gurley, 4001.
- venustulus* n. sp., Miller and Gurley, 3998.
- venustus* n. sp., Miller, 3992.
- veterator* n. sp., Miller and Gurley, 3998.
- vetustus* n. sp., Miller and Gurley, 3998.
- vicinus* n. sp., Miller and Gurley, 3998.
- wetherbyi*, Miller and Gurley, 3997d.
- Batodon tenuis* n. gen. et sp., Marsh, 3671.
- Batostoma*, Simpson, 4983.
- Batostoma Ulrich*, Ulrich, 5537.
- ? *decepiens* n. sp., Ulrich, 5537.
- fertile* Ulrich, Ulrich, 5537.
- humile* n. sp., Ulrich, 5537.
- magnopora* n. sp., Ulrich, 5537.
- minnesotense* n. sp., Ulrich, 5537.
- montuosum* n. sp., Ulrich, 5537.
- varium* n. sp., Ulrich, 5537.
- winchelli* Ulrich, Ulrich, 5537.

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- Bauhinia cretacea* Newb., Newberry, 4080.
 (?) *gigantea* n. sp., Newberry, 4080.
Beatricea, James, 2881.
 nodulosa James, 2881.
 undulata James, 2881.
Beecheria Hall, Hall and Clarke, 2261.
 davidsoni, Hall and Clarke, 2261a, 2268.
Belanus balanoides, Beecher, 366.
Belemnacanthus giganteus n. sp., Eastman, 1601.
Belemnitella americana, Whitfield, 6097.
 baculus n. sp., Logan, 3554.
Belemnites (?) *ambiguus*, Whitfield, 6097.
 assimilis n. sp., Whiteaves, 6095a.
 curtus n. sp., Logan, 3559.
 densus Meek, Logan, 3559.
 densus, Marsh, 3695.
 impressus Gabb, Stanton, 5199.
 af. obeliscus Phillips, Aguilera, 57.
 pacificus, Hyatt, 2818.
 af. puzosi d'Orbigny, Aguilera, 57.
 tehamaensis n. sp., Stanton, 5199.
Belemnoerinus? *sumpsoni* Miller, Keyes, 3061.
 sp.?, Aguilera, 57.
 sp., Stanton, 5199.
Belemnocystites n. gen., Miller and Gurley, 3997c.
 wetherbyi n. sp., Miller and Gurley, 3997c.
Bellerophon Montfort, Grabau, 2086.
Bellerophon (sensu stricto), Girty, 2037.
Bellerophon Montfort, Ulrich and Scofield, 5541.
 alternodosus, Whitfield, 6099.
 barquensis, Lane, 3400.
 bellus n. sp., Keyes, 3062.
 bilabiatus W. & W., Weller, 6006.
 bilabiatus White and Worthen, Keyes, 3062.
 bilineatus n. sp., Ulrich and Scofield, 5541.
 bilobatus? Sowerby, Keyes, 3062.
 blairi n. sp., Miller and Gurley, 4002.
 branneri n. sp., Weller, 5986.
 calcifer, n. sp., Cleland, 1012.
 capax n. sp., Ulrich and Scofield, 5541.
 cincinnatiensis n. sp., Miller and Faber, 3996.
 clausus n. sp., Ulrich and Scofield, 5541.
 crassus Meek and Worthen, Keyes, 3062.
 galeriuculatus, Win., Lane, 3100.
 globularis, n. sp., Miller and Faber, 3996.
 gorbyi n. sp., Miller, 3992.
 ithacensis n. sp., Kindle, 3168.
 leda Hall, Grabau, 2086.
 mareouanus Geinitz, Keyes, 3062.
 meekianus Swallow, Keyes, 3062.
 mohri Miller, Ulrich and Scofield, 5541.
 montfortianus Norwood and Pratten, Keyes, 3062.
 morganianus, Hartt and Rathbun, Clarke, 976.
 nodocarinatus Hall, Keyes, 3062.
 panneus White, Keyes, 3062.
 panneus White?, Weller, 6006.
 patulus Hall, Grabau, 2086.
 pelops (?) Hall, var., Whiteaves, 6074.

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- Bellerophon percarinatus* Conrad, Keyes, 3062.
 platystoma Meek and Worthen, Ulrich and Scofield, 5541.
 recurvus n. sp., Ulrich and Scofield, 5541.
 sedaliensis n. sp., Miller and Gurley, 4002.
 similis n. sp., Ulrich and Scofield, 5541.
 steltzneri n. sp., Clarke, 976.
 stevensianus McChesney, Keyes, 3062.
 subangularis n. sp., Ulrich and Scofield, 5541.
 subglobulus n. sp., Ulrich and Scofield, 5541.
 sublaevis Hall, Keyes, 3062.
 sublaevis Hall, Weller, 5986.
 sublaevis (?), Whitfield, 6099.
 subovatus n. sp., Cleland, 1012.
 troosti (d'Orbigny) Safford, Ulrich and Scofield, 5541.
 var. *burginensis* n. var., Ulrich and Scofield, 5541.
 urii Fleming, Keyes, 3062.
 vinculatus W. & W., Weller, 6006.
 (Bucania) opertus n. sp., Foerste, 1835.
 sp.?, Clarke, 971.
 sp., Girty, 2039.
Bellerophontacea, Ulrich and Scofield, 5541.
Bellinurus grandevus Jones & Woodw., Jones and Woodward, 2937.
Beloceras Hyatt, Clarke, 960.
 lynx n. sp., Clarke, 960.
 (?) *napelesense* n. sp., Clarke, 960.
Belodon, Case, 768.
 supercliliosus Cope n. sp., Cope, 1087.
Beltina n. gen., Walcott, 5815.
 danai n. sp., Walcott, 5815.
Beluga catodon, Dawson, 1449.
Bembidium glaciatum, Scudder, 4896.
 obductum n. sp., Scudder, 4900.
 tumulorum n. sp., Scudder, 4900.
Benthonella turbinata n. sp., Guppy and Dall, 2214.
Benzoin dilleri n. sp., Knowlton, 3262.
Berberis simplex Newb., Newberry, 4083.
Berenicea, Simpson, 4983.
Berenicea Lamouroux, Ulrich, 5537.
 minnesotensis Ulrich, Ulrich, 5537.
Bergeronia n. sub gen., Matthew, 3761.
 articephala Matthew, 3761.
 elegans W. D. Matthew, Matthew, 3761.
Bernissartia, Case, 768.
Beryx? Cuvier, Stewart, 5240.
 multidentatus n. sp., Stewart, 5240.
 polymicrodus n. sp., Stewart, 5240.
Betula, Knowlton, 3246.
 aequalis? Lx., Knowlton, 3246.
 alaskana Lesquereux, Knowlton, 3230.
 angustifolia Newb., Newberry, 4083.
 heterodonta Newb., Newberry, 4083.
 iddingsi n. sp., Knowlton, 3255.
 perantiqua Dn., Dawson, 1436.
 sp.? Newberry, 4083.
Betulites Heer, Lesquereux, 3470.
 populifolius n. sp., Lesquereux, 3470.

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- Betulites rugosus* n. sp., Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
westii n. sp., Lesquereux, 3470.
 var. crassus, Lesquereux, 3470.
 cuneatus, Lesquereux, 3470.
 grewiopsideus, Lesquereux, 3470.
 inaequilateralis, Lesquereux, 3470.
 lanceolatus, Lesquereux, 3470.
 latifolius, Lesquereux, 3470.
 multinervis, Lesquereux, 3470.
 oblongus, Lesquereux, 3470.
 obtusus, Lesquereux, 3470.
 populoides, Lesquereux, 3470.
 quadratifolius, Lesquereux, 3470.
 reniformis, Lesquereux, 3470.
 rhomboidalis, Lesquereux, 3470.
 rotundatus, Lesquereux, 3470.
 subintegrifolius, Lesquereux, 3470.

Beyrichia McCoy, Grabau, 2086.

Beyrichia McCoy, Ulrich, 5540.

hamiltonensis Jones, Grabau, 2086.

hammelli n. sp., Miller and Faber, 3997.

initialis n. sp., Ulrich, 5540.

nova scotica, Dawson, 1454.

 (?) *primæva* n. sp., Matthew, 3781.

tricollina Ulrich, Grabau, 2086.

Beyrichona, Matthew, 3761.

ovata n. sp., Matthew, 3761.

papilio, Matthew, 3761.

planata n. sp., Matthew, 3761.

rotundata n. sp., Matthew, 3761.

tinca Matt., Matthew, 3751. 3761.

triangula n. sp., Matthew, 3761.

Biflustra brownii n. sp., Cragin, 1115.

Billingsella n. gen., Hall and Clarke, 2260.

coloradoensis Shumard, Walcott, 5816.

Bilobites Linné. Hall and Clarke, 2260.

Bison, Middleton and Moore, 3981.

alaskensis Rhoads, Rhoads, 4584.

alleni Marsh, Lucas, 3586.

alleni Marsh, Rhoads, 4586.

antiquus Leidy, Lucas, 3586.

antiquus Leidy, Rhoads, 4586.

appalachicolus n. sp., Rhoads, 4584.

bison (Linnæus), Lucas, 3586.

classicornis Richardson, Lucas, 3586.

ferox Marsh, Lucas, 3586.

latifrons Blake, 476.

latifrons (Harlan), Lucas, 3586.

latifrons (Harlan), Rhoads, 4586.

occidentalis Lucas, Lucas, 3886, 3587.

scaphoceras (Cope), Rhoads, 4586.

sp. ?, Rhoads, 4586.

Bittium annette n. sp., Dall, 1259.

chipolanum n. sp., Dall, 1259.

var. burnsi Dall, Dall, 1258.

cossmannii n. sp., Dall, 1259.

galvestonense n. sp., Harris, 2309.

longissimum n. sp., Cooper, 1071.

permutabile n. sp., Dall, 1259.

podagrimum n. sp., Dall, 1259.

 (*Diastoma*?) *variem* Pfeiffer, Dall, 1259.

 (*Styliferina*) *præformatum* n. sp., Guffy and Dall, 2214.

 (*Styliferina*?) *adamsi*, Dall, 1259.

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Bittium (*Styliferina*?) *boiplex* n. sp., Dall, 1259.

cerithidioides Dall, Dall, 1259.

priscum Dall, Dall, 1259.

Bittnerula n. gen., Hall and Clarke, 2264.

Blairella n. gen., Miller and Gurley, 4002.

sedaliensis n. sp., Miller and Gurley, 4002.

Blairocrinus arrosus n. sp., Miller, 3995.

bullatus n. sp., Miller, 3995.

spinosulus n. sp., Miller and Gurley, 3997a.

trijugis n. gen. et sp., Miller, 3992.

Blarina simplicidens Cope, Cope, 1104.

Blastomeryx gemmifer Cope, Cope, 1087.

Blattina sp., Seudder, 4898.

Bledius fæcorum n. sp., Seudder, 4900.

glaciatius, Seudder, 4898.

morsei n. sp., Seudder, 4900.

osborni n. sp., Seudder, 4900.

primitiarum n. sp., Seudder, 4900.

soli n. sp., Seudder, 4900.

Blothrophyllum bellicinctum n. sp., Greene, 2162c.

bucculentum n. sp., Greene, 2162b.

cingulatum n. sp., Greene, 2162a.

conigerum n. sp., Greene, 2162b.

flexuosum n. sp., Greene, 2162a.

incultum n. sp., Greene, 2162b.

Bodmania n. gen., Miller and Faber, 3996.

insuetum n. sp., Miller and Faber, 3996.

Bohemillia stufenda, Beecher, 371.

Boletobius durabilis n. sp., Seudder, 4900.

funditus n. sp., Seudder, 4900.

lyelli n. sp., Seudder, 4900.

stygis n. sp., Seudder, 4900.

Bolivina ænariensis (Costa), Chapman, 870.

dilatata Reuss, Chapman, 870.

dilatata Reuss, *var. angusta* Egger, Chapman, 870.

dilatata Reuss, Woodward and Thomas 6433.

punctata d'Orbigny, Bagg, 150.

punctata d'Orbigny, Woodward and Thomas, 6433.

textilaroides Reuss, Bagg, 150.

Bollia Jones and Holl, Ulrich, 5540.

lata Vanuxem (Conrad), *var. Brasiliensis*, n. var., Clarke, 976.

unguloidea n. sp., Ulrich, 5540.

subæquata n. sp., Ulrich, 5540.

Bornia Philippi, Dall, 1281.

dodona n. sp., Dall, 1281.

floridana n. sp., Dall, 1281.

lioica, Dall, 1281.

mactroides Conrad, Dall, 1281.

mazyckii Dall, 1281.

plectopygia n. sp., Dall, 1281.

rota n. sp., Dall, 1281.

scintillata n. sp., Dall, 1281.

triangula n. sp., Dall, 1281.

Borophagus diversidens Cope, Cope, 1087.

Borsonia ludoviciana n. sp., Vaughan, 5722.

plenta Har. and Ald., Aldrich, 73.

 (*Scobinella*) *conradiana* n. sp., Aldrich, 73.

sp., Aldrich, 73.

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- Bos, Blake, 475.
 arizonica, Blake, 476.
 campianus n. sp., Cope, 1095.
 scaphoceras n. sp., Cope, 1095.
 Bothriolepis leidy Newb. (?), Eastman, 1605.
 minor Newb., Cope, 1082.
 minor Newb., Eastman, 1605.
 Bothrodendron arborescens (Lx.), White, 6052.
 Botriopygus alabamensis Clark, Clark, 892.
 Botryllopora, Simpson, 4983.
 Botryllopora Nicholson, Grabau, 2086.
 socialis Nicholson, Grabau, 2086.
 Botryocrinus Angelin, Weller, 6002.
 polyxo Hall, Weller, 6002.
 Botryodictya n. gen., Hall and Clarke, 2269, 2270.
 ramosa (sp.), Hall and Clarke, 2269, 2270.
 Bouchardia Davidson, Hall and Clarke, 2264.
 Bourguetierinus alabamensis de Loriol, Clark, 892.
 Brachiocrinus nodosarius, Bather, 294.
 Brachiopoda, Beecher.
 Brachiopoda Schuchert, 4845.
 Brachiospongia, James, 2881.
 digitata, James, 2881.
 digitata, Rauff, 4548.
 Brachymetopus armatus, Vogdes, 5755.
 Brachynus newberryi n. sp., Scudder, 4900.
 repressus n. sp., Scudder, 4900.
 Brachyphyllum crassum n. sp., Lesquereux, 3470.
 crassum Lesq., Newberry, 4089.
 macrocarpum Newb., Knowlton, 3264.
 texense n. sp., Fontaine, 1846, 1847.
 yorkense Fontaine n. sp., Ward, 5857.
 Brachyprion majus, n. sp., Clarke, 971.
 schuchertanum, n. sp., Clarke, 971.
 Brachysaurus n. gen., Williston, 6236, 6245.
 overtoni Williston, Williston, 6236, 6245.
 Brachysphingus liratus Gabb, Stanton, 5198.
 Branchiosaurus, Case, 767.
 Branchipus stagnalis, Beecher, 366.
 Branta propinqua n. sp., Shufeldt, 4960.
 Brascenia (?) antiqua Newb., Newberry, 4083.
 Brittsia n. gen., White, 6050.
 problematica n. sp., White, 6050.
 Bromelis? tenuifolia n. sp., Lesquereux, 3470.
 Bronteus lunatus Billings, 1854, Clarke, 952.
 manitobensis n. sp., Whiteaves, 6096.
 senescens Clarke, Clarke, 959.
 Brontelithys, clarki n. gen., Clappole, 994.
 Brontosaurus, Case, 768.
 Marsh, 3701, 3702.
 Osborn, 4218.
 Brooksella n. gen., Walcott, 5805, 5811.
 alternata n. sp., Walcott, 5805, 5811.
 confusa n. sp., Walcott, 5805, 5811.
 Bryograptus lentus n. sp., Matthew, G. F., 3762.
 multiramosus n. sp., Gurley, 2217.
 patens n. sp., Matthew, 3746.
 patens Matt., Matthew, G. F., 3762.
 ? retroflexus ? Brögger, Matthew, G. F., 3762.
 spinosus Matt., Matthew, G. F., 3762.

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- Bucanella Meek, Ulrich and Scofield, 5541.
 Bucania Hall, Ulrich and Scofield, 5541.
 champlainensis n. sp., Whitfield, 6106.
 crassa, n. sp., Ulrich and Scofield, 5541.
 elliptica n. sp., Ulrich and Scofield, 5541.
 emmonsii n. sp., Ulrich and Scofield, 5541.
 frankfortensis n. sp., Ulrich and Scofield, 5541.
 freitasi n. sp., Clarke, 976.
 halli n. sp., Ulrich and Scofield, 5541.
 lindsleyi Safford, Ulrich and Scofield, 5541.
 micronema n. sp., Ulrich and Scofield, 5541.
 minnesotensis n. sp., Ulrich and Scofield, 5541.
 nana n. sp., Ulrich and Scofield, 5541.
 var. subpatula n. var., Ulrich and Scofield, 5541.
 nashvillensis n. sp., Ulrich and Scofield, 5541.
 peracuta n. sp., Ulrich and Scofield, 5541.
 punctifrons Emmons, Ulrich and Scofield, 5541.
 rugatina n. sp., Ulrich and Scofield, 5541.
 simulatrix n. sp., Ulrich and Scofield, 5541.
 singularis n. sp., Ulrich and Scofield, 5541.
 subangulata n. sp., Ulrich and Scofield, 5541.
 sublata n. sp., Ulrich and Scofield, 5541.
 ? sp., Weller, 5994.
 Bucaniella continoana, Hartt and Rathbun (sp.), Clarke, 976.
 reissi, n. sp., Clarke, 976.
 trilobata, Conrad, Var. Vira-Mundo, n. var., Clarke, 976.
 Bucanopsis n. gen., Ulrich and Scofield, 5541.
 Bucanopsis Girty, 2037.
 carinifera n. sp., Ulrich and Scofield, 5541.
 deflectus n. sp., Weller, 6006.
 Buccinanops ellipticum Whitf., Harris, 2315, 2316.
 variabilis n. sp., Whitfield, 6101.
 Buccinatrix n. gen., Cragin, 1115.
 regina, Cragin, 1115.
 Buccinopsis(?) medialis (Conrad), Hill, 2539.
 Buccinum porcinum, Say, 4813.
 Buchiceras inaequiplacatus Shumard, Cragin, 1115.
 swallowi, Shumard, Herrick and Johnson, 2465.
 var. puercensis, n. var., Herrick and Johnson, 2465.
 swallowi Shumard, Cragin, 1115.
 swallowi Shumard (sp.), Stanton, 5191.
 Bulimina aculeata, Bagg, 148.
 affinis d'Orbigny, Chapman, 870.
 affinis d'Orbigny, Woodward and Thomas, 6433.
 buchiana, Bagg, 148.
 buchiana d'Orbigny, Chapman, 870.
 elegans d'Orbigny, Chapman, 870.
 elegantissima d'Orbigny, Chapman, 870.
 elongata, Bagg, 148.
 elongata, d'Orbigny, Chapman, 870.

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- Bulimina pupoides d'Orbigny, Woodward and Thomas, 6433.
 puschi Reuss, Bagg, 150.
 variabilis d'Orbigny, Bagg, 150.
- Bulimorpha Whitfield, Keyes, 3062.
 bulimiformis (Hall), Keyes, 3062.
 inornata (Meek and Worthen), Keyes, 3062.
- Bulimulus Leach, Dall, 1259.
 floridanus Conrad (sp.), Dall, 1259.
 heilprinaianus n. sp., Dall, 1259.
 stearnsii Dall, Dall, 1259.
 (? Anctus) americanus Dall, Dall, 1259.
- Bulla assimolata n. sp., Cooper, 1071.
 conica n. sp., Whitfield, 6097.
 mortoni, Whitfield, 6097.
 striata Brug, var. attenuata Dall, Dall, 1259.
- Bullia buccinoides n. sp., Merriam, 3923, 3929.
- Bullina leai n. sp., Aldrich, 73.
 (Abderospira) chipolana n. sp., Dall, 1269.
- Bullinella jacksonensis var. exta, n. var., Harris, 2305.
- Bulliopsis choctawensis Ald., Harris, 2316.
- Bumastus orbicaudatus Billings (sp.), 1859, Clarke, 952.
 trentonensis Emmons (sp.), 1842, Clarke, 952.
- Bumelis? rhomboidea n. sp., Lesquereux, 3470.
- Bunomeryx montanus n. gen. et sp., Wortman, 6493.
- Bunomeryx Wortman, Scott, 4884.
 elegans, n. sp., Wortman, 6493.
- Buprestis saxigena, Scudder, 4896.
 sepulta, Scudder, 4896.
 tertiaria, Scudder, 4896.
- Busycon carica, Whitfield, 6101.
 scalarispira, Whitfield, 6101.
- Buthograptus laxus, Whitfield, 6102.
- Buthotrephis pergracilis Dawson, Dawson, 1452.
- Byronia, n. gen., Matthew, 3788.
 annulata, n. sp., Matthew, 3788.
- Byrrhus ottawaensis, Scudder, 4896.
 romingeri n. sp., Scudder, 4900.
- Byssonychia n. gen., Ulrich, 5539.
 acutirostris n. sp., Ulrich, 5535.
 alveolata n. sp., Ulrich, 5535.
 byrnesi n. sp., Ulrich, 5535.
 cultrata, Ulrich, 5535.
 grandis n. sp., Ulrich, 5535.
 imbricata n. sp., Ulrich, 5535.
 intermedia Meek and Worthen, Ulrich, 5539.
 obesa n. sp., Ulrich, 5535.
 praecursa n. sp. or var., Ulrich, 5535.
 richmondensis n. sp., Ulrich, 5535.
 suberecta n. sp., Ulrich, 5535.
 tenuistriata n. sp., Ulrich, 5539.
 vera n. sp., Ulrich, 5535.
- Bythmella latensis n. sp., White, 6036.
- Bythocypris Brady, Ulrich, 5540.
 cylindrica Hall, Ulrich, 5540.
 (?) curta n. sp., Ulrich, 5540.
 granti n. sp., Ulrich, 5540.
 (?) robusta n. sp., Ulrich, 5540.

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- Bythopora, Simpson, 4983.
- Bythopora Miller and Dyer, Ulrich, 5537.
 aleicornis n. sp., Ulrich, 5537.
 herricki Ulrich, Ulrich, 5537.
- Bythotrypa, n. gen., Ulrich, 5537.
 laxata, Ulrich, Ulrich, 5537.
- Cabomba (?) gracilis Newb., Newberry, 4083.
 inermis (Newb.) Hollick, Newberry, 4083.
- Caetocrinus W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
 arnoldi W. and Sp., Wachsmuth and Springer, 5765a.
- clarus Hall, Wachsmuth and Springer, 5765a.
- celatus Hall, Wachsmuth and Springer, 5765a.
- celatus var. spinotentaculus Hall, Wachsmuth and Springer, 5765a.
- denticulatis W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
- ectypus Meek and Worthen, Wachsmuth and Springer, 5765a.
- extensus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
- fossatus S. A. Miller, Wachsmuth and Springer, 5765a.
- glans Hall, Wachsmuth and Springer, 5765a.
- limabrachiatus (Hall), Wachsmuth and Springer, 5765a.
- longus (Meek and Worthen), Wachsmuth and Springer, 5765a.
- lucina (Hall), Wachsmuth and Springer, 5765a.
- multibrachiatus Hall, Wachsmuth and Springer, 5765a.
- nodobrachiatus W. and Sp., Wachsmuth and Springer, 5765a.
- obesus Keyes (MS.), Wachsmuth and Springer, 5765a.
- opusculus (Hall), Wachsmuth and Springer, 5765a.
- ornatissimus W. and Sp., Wachsmuth and Springer, 5765a.
- proboscidalis (Hall), Wachsmuth and Springer, 5765a.
- reticulatus (Hall), Wachsmuth and Springer, 5765a.
- reticulatus, var. ovatus (Hall), Wachsmuth and Springer, 5765a.
- sexarmatus (Hall), Wachsmuth and Springer, 5765a.
- thalia (Hall), Wachsmuth and Springer, 5765a.
- thetis Hall, Wachsmuth and Springer, 5765a.
- Cadulus abruptus Ald. and M., Harris, 2316.
- bellulus n. sp., Clark, 118, 904.
- floridanus n. sp., Dall, 1259.
- parianus n. sp., Guppy and Dall, 2214.
- turgidus, Harris, 2310.
- Caeella Gray, Dall, 12/2.
- Cæcum carolinianum n. sp., Dall, 1259.
- coronellum n. sp., Dall, 1259.
- floridanum Stimpson, Dall, 1259.

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- Cæcum floridanum* var. *compactum* Dall, 1259.
solitarium Meyer, Dall, 1259.
tortile n. sp., Dall, 1259.
(*tortile* var.?) *ibex* n. sp., Dall, 1259.
Cælaterates, Chapman, 867.
Cæsalpina cookiana Hollick n. sp., Newberry, 4080.
Calamites Suckow, White, 6050.
cannæformis Schloth., White, 6049.
cistii Brongn., White, 6050.
ramosis Artis, White, 6050.
(*Eucalamites*) *ramosis* Artis, White, 6040.
Calamocrinus diomedæ, Agassiz, 46.
Calamodendron approximatum (Schloth.) Brongn., White, 6049.
Calamodon Cope, Wortman, 6492.
Calamostachys ovalis Lx.?, White, 6050.
Calandrites n. gen., Seudder, 4890.
cineratus, Seudder, 4890.
defussus, Seudder, 4890.
Calapoezia, James, 2881.
Calapoezia Billings, Lambe, 3374.
borealis, n. sp., Whitfield, 6112.
canadensis Billings, Lambe, 3374.
canadensis, Billings, Whiteaves, 6087.
cribriformis, James, 2881.
Calathospongia n. gen., Hall and Clarke, 2269, 2271.
amphorina n. sp., Hall and Clarke, 2269, 2271.
carceralis n. sp., Hall and Clarke, 2269, 2271.
earlin n. sp., Hall and Clarke, 2269, 2271.
(?) *magnifica* n. sp., Hall and Clarke, 2269, 2271.
redfieldi Hall (sp.), Hall and Clarke, 2269, 2271.
(?) *sacculus* Hall (sp.), Hall and Clarke, 2269, 2271.
tiffanyi n. sp., Hall and Clarke, 2269, 2271.
Calceocrinus indianensis n. sp., Miller, 3992.
kentuckiensis n. sp., Miller and Gurley, 3997c.
tunicatus (Hall) Keyes, 3061.
ventricosus (Hall), Keyes, 3061.
Calcytes diospyriformis n. sp., Newberry, 4080.
parvus, n. sp., Newberry, 4080.
polysepala, Newb., Newberry, 4083.
Callianassa whiteavesii n. sp., Woodward, 6440, 6442.
Callicrinus, Weller, 5984, 6002.
beachleri n. sp., Wachsmuth and Springer, 5765.
bifurcatus n. sp., Weller, 6002.
bilobus, Weller, 6002.
cornutus (Hall), Weller, 6002.
corrugatus, Weller, 6002.
desideratus n. sp., Weller, 6002.
digitatus, Weller, 6002.
hydei, Weller, 6002.
longispinus n. sp., Weller, 6002.
pentangularis n. sp., Weller, 6002.
Calliostoma aphelium n. sp., Dall, 1259.

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- Calliostoma cyclus* n. sp., Dall, 1259.
eboreum Wagner, Dall, 1259.
(*eboreum* Wagner var.?) *wagneri* Dall, 1259.
(*erosum*) n. sp., Dall, 1259.
exile n. sp., Dall, 1259.
grammaticum n. sp., Dall, 1259.
harrissi n. sp., Dall, 1259.
kempiana n. sp., Cooper, 1071.
labrosum Conrad, Dall, 1259.
lignitica n. sp., Cooper, 1072.
metrium n. sp., Dall, 1259.
nitens Lea, Dall, 1259.
philanthropus Conrad, Dall, 1259.
var. *elimatum* Dall, Dall, 1259.
(*philanthropus* var.?) *conradianum* Dall, Dall, 1259.
virginicum Conrad, Dall, 1259.
willcoxianum n. sp., Dall, 1259.
(*Eutrochus*) *ceranicum* n. sp., Dall, 1259.
limulum n. sp., Dall, 1259.
Callipteridium inaequale Lx., White, 6049, 6050.
mansfeldi Lx., White, 6049.
membranaceum Lx., White, 6050.
pottsvillense n. sp., White, 6052.
sullivantii (Lx.) Weiss, White, 6049, 6050.
Callista (Aphrodina) *tenuis* H. and M., Logan, 3554.
(*Aphrodina*?) *tenuis* H. and M., Stanton, 5191.
(*Dosiniopsis*?) *orbiculata* H. and M., Stanton, 5191.
Callistemophyllum heerii Ett., Lesquereux, 3470.
Callithamnopsis Whitfield, Whitfield, 6102.
fruticosa, Whitfield, 6100, 6102.
Callopora, Simpson, 4983.
Callopora Hall, Ulrich, 5537.
ampla n. sp., Ulrich, 5537.
angularis n. sp., Ulrich, 5537.
crenulata n. sp., Ulrich, 5537.
dumalis n. sp., Ulrich, 5537.
goodhuensis n. sp., Ulrich, 5537.
incontroversa Ulrich, Ulrich, 5537.
multitubulata Ulrich, Ulrich, 5537.
pulchella n. sp., Ulrich, 5537.
var. *persimilis* n. var., Ulrich, 5537.
undulata Ulrich, Ulrich, 5537.
Callotrypa, Simpson, 4983.
Calops cristatus n. gen. et. sp., Marsh, 3682, 3690.
consors n. sp., Marsh, 3707.
cristatus, Marsh, 3707.
Calosoma emmonsii n. sp., Seudder, 4900.
Calymmene callicephala Green, 1832, Clarke, 952.
rugosa Shumard, Keyes, 3061.
senaria Conrad, Keyes, 3061.
vogdesi, Ferste, 1835.
Calyptrea aperta Sol., Harris, 2316.
costata, Say, 4813.
grandis, Say, 4813.
trochiformis Lamarek, Clark, 906.
sp., Harris, 2310.
Calyptrophorus jacksoni n. sp., Clark, 904, 906.

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- Calyptrophorus trinodiferus* Con., Harris, 2315.
velatus var. *compressa*, Harris, 2310.
velatus, Whitfield, 6097.
- Camarasaurus*, Osborn, 4206.
 (*Atalantosaurus*), Case, 768.
- Camarella parva* (Bill.), Matthew, 3746.
- Camroceras* Conrad, 1839, Clarke, 953.
hennepini n. sp., Clarke, 953.
proteiforme Hall, 1847, Clarke, 953.
 n. sp., Clarke, 953.
- Camorphoria* King, Hall and Clarke, 2261a, 2264.
rhomboidalis, Hall and Clarke, 2261a, 2268.
 n. sp., Hall and Clarke, 2263.
ringens Swallow, Girty, 2058.
 (*Camorphorella* Hall), Hall and Clarke, 2264.
- Camarospira* n. gen., Hall and Clarke, 2261.
 Hall, Hall and Clarke, 2264.
- Camarotecthia* Hall and Clarke, Grabau, 2086.
- Camarotecthia* Hall, Hall and Clarke, 2261a, 2264.
barrandii Hall, Clarke, 971.
camarifera Winchell (?), Girty, 2038.
congregata (Conrad), Grabau, 2086.
contracta (Hall) Hall and Clarke?, Girty, 2039.
dotis Hall, Grabau, 2086.
dryope Billings, Clarke, 971.
elegantula n. sp., Rowley, 4677a.
endlichi (Meek) Schuchert, Girty, 2039.
 (?) *fitchana* Hall, Clarke, 971.
herrickana n. sp., Girty, 2038.
horsfordi Hall, Grabau, 2086.
hubbardi, Win., Lane, 3400.
huronensis, Lane, 3400.
metallica White, Girty, 2038.
oblata Hall, Clarke, 971.
sappho Hall, Grabau, 2086.
sappho Hall (?), Girty, 2038.
 (*Liorhynchus* Hall), Hall and Clarke, 2264.
 (*Plethorhynchus* Hall), Hall and Clarke, 2264.
 (*Rhynchonella*) *camerifera*, sp., Lane, 3400.
 sp., Clarke, 971.
 sp., Girty, 2038.
- Camelomeryx* n. gen., Scott, 4883, 4884.
longiceps n. sp., Scott, 4883.
- Camelops* Leidy, Wortman, 6493.
americanus n. sp., Wortman, 6493.
kansasus Leidy, Wortman, 6493.
vitikerianus Cope, Wortman, 6493.
- Camarella* Billings, Hall and Clarke, 2261a, 2264.
- Campeoloma macrospira* Meek, White, 6036.
- Camphophyllum kansasense* n. sp., Miller and Gurley, 3997a.
torquium (Owen), Keyes, 3061.
torquium Owen, Beede, 388.
 sp., Girty, 2037.
- Camptocrinus* W. and Sp. (nov. subgen.), Wachsmuth and Springer, 5765a.

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- Camptocrinus cirrifer* W. and Sp. (n. sp.), Wachsmuth and Springer, 5765a.
myelodactylus W. and Sp. (n. sp.), Wachsmuth and Springer, 5765a.
- Camptoneetes bellistriatus* Meek, Logan, 3559.
bellistriatus Meek, Stanton, 5206.
 var. *distans* n. var., Stanton, 5206.
burlingtonensis Gabb, Harris, 2315.
extenuatus Meek and Hayden, Logan, 3559;
pertenuistriatus Hall and Whitfield, Stanton, 5206.
platessa White, Herrick and Johnson, 2465.
platessa White, Stanton, 5791.
platessiformis White, Stanton, 6206.
- Camptosaurus*, Marsh, 3701, 3702.
dispar, Marsh, 3683.
- Cancellaria alternata*, Whitfield, 6101.
annosa n. sp., Aldrich, 76.
antiqua Wagner, Dall, 2307.
bastropensis n. sp., Harris, 2307.
conradiana Dall, var. *rotunda*, Dall, 1259.
galvestonensis n. sp., Harris, 2309.
graciloides n. sp., Aldrich, 76.
 var. *bella* n. var., Aldrich, 76.
graciloides Ald., Harris, 2316.
 var. *bella* n. var., Harris, 2316.
irelaniana n. sp., Cooper, 1071.
lanceolata n. sp., Aldrich, 75.
laneolata Ald., Harris, 2316.
malachitensis n. sp., Stanton, 5191.
maricana n. sp., Aldrich, 74.
maricana, Harris, 2316.
panones n. sp., Harris, 2307.
 var. *junipera* n. var., Harris, 2307.
 var. *smithvillensis* n. var., Harris, 2307.
penrosei n. sp., Harris, 2307.
priama n. sp., Harris, 2308.
quercollis var. *greggi*, Harris, 2315, 2316.
recticulata Linné, Dall, 1259.
rowelli n. sp., Guppy and Dall, 2214.
rudis n. sp., Whitfield, 6097.
silværupis n. sp., Harris, 2311, 2316.
tortiplica Con., Harris, 2311, 2316.
ulmulu n. sp., Harris, 2307.
 (*Merica*) *subalta*, Whitfield, 6097.
 (*Trigonostoma*) *sericea* n. sp., Dall, 1259.
- Cancer proavitus* n. sp., Packard, 4231.
- Candona caudida* Müller, Jones, T. R., 2935.
caudida var. *depressa* n. var., Chapman, 869.
gracilis n. sp., Chapman, 869.
lactea var. *acuminata* n. var., Chapman, 869.
 ? *sanctæ-mariæ* n. sp., Jones, T. R., 2935.
subovata n. sp., Jones, 2934.
subreniformis n. sp., Jones, 2934.
- Canimartes cummingsi* Cope, Cope, 1087.
- Canis indianensis* Leidy, Cope, 1095.
priscolatrans Cope, Cope, 1104.
- Canistocrinus* Wachsmuth and Springer, James, 2889.
pattersoni S. A. Miller, James, 2889.

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- Canistocrinus richardsoni* Wetherby, James, 2889.
Cannapora Hall, Lambe, 3374.
 jubeiformis Hall, Lambe, 3374.
Cantharus cumberlandianus, Whitfield, 6101.
Capellinia Hall, Hall and Clarke, 2261a, 2264.
 mira, Hall and Clarke, 2261a, 2268.
Capitosaurus, Case, 767.
Caprina cf. *adversa* d'Orbigny, Boehm, 503a.
 jamaicensis n. sp., Whitfield, 6107.
 ramosa n. sp., Boehm, 503a.
Caprinella occidentalis n. sp., Whitfield, 6107.
 quadrangularis n. sp., Whitfield, 6107.
Caprinula gigantea n. sp., Whitfield, 6107.
Captorhinus n. gen., Cope, 1097.
Capulus Montfort, Keyes, 3062.
 biserialis (Hall), Keyes, 3062.
 canadensis Whiteaves, Whiteaves, 6080.
 equilateralis (Hall), Keyes, 3062.
 expansus Whitf., Harris, 2316.
 haliotoides (Meek and Worthen), Keyes, 3062.
 latus (Keyes), Keyes, 3062.
 obliquus (Keyes), Keyes, 3062.
 ovalis (Stevens), Keyes, 3062.
 paralius (White and Whitfield), Keyes, 3062.
 parvus Swallow, Keyes, 3062.
 subsinuosus (Worthen), Keyes, 3062.
 tribulosus (White), Keyes, 3062.
 sp., Weller, 5994.
Carabites exanimus, Scudder, 4889, 4900.
Carabocrinus ovalis n. sp., Miller and Gurley, 3997c.
Carabus jeffersoni n. sp., Scudder, 4900.
Carausia, Beecher, 366.
Carbonia bairdioides, Dawson, 1454.
 elongata, Dawson, 1454.
 fabulina, Dawson, 1454.
 rankiniana, Dawson, 457.
Carcharodon mortoni-Gibbes, Lucas, 3582.
polygyrus Agassiz, Clark, 906.
Carcinoma ingens n. sp., Clappole, 992.
Cardiaster cinctus (Morton), Clark, 892.
Cardinia angulifera, Ami, 82.
 gibbosum (?), Hyatt, 2818.
 wyomingensis n. sp., Logan, 3559.
Cardinopsis n. gen., Stanton, 5199.
 unioides, n. sp., Stanton, 5199.
Cardinocrania Waagen, Hall and Clarke, 2260.
Cardiocarpon cornutum Dn., White, 6052.
 cuyahogae n. nom., White, 6052.
 elongatum Newb., White, 6052.
 girtyi n. sp., White, 6052.
 obliquum Dn., White, 6052.
 (*Samaropsis*) *branneri* Fairh. and D. W., White, 6050.
Cardiocarpus, Jones, 2926.
Cardioceras cordiforme Meek, Logan, 3559.
 dubium n. sp., Hyatt, 2818.
Cardiola Broderip, Grabau, 2086.
 retrostriata von Buch, Grabau, 2086.
Cardiopsis (?) *erectus* n. sp., Weller, 5994.
 megambonata, Lane, 3400.
 megambonata Win., Weller, 6006.

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- Cardiopsis* (?) *radiata* Meek and Worthen, Weller, 5994.
 tenuicostata n. sp., Whiteaves, 6074.
Cardita alticosta Gabb, Cooper, 1072.
 belviderensis n. sp., Cragin, 1116.
 belviderensis, Stanton, 5197.
 granulata, Whitfield, 6101.
Carditamera aculeata, Whitfield, 6101.
 arata, Whitfield, 6101.
Cardium Linné, Dall, 1281.
Cardium (L.) Lamarek, Dall, 1281.
 acrocome n. sp., Dall, 1281.
 alabamense, Harris, 2315.
 bisolaris, Stanton, 5197.
 ctenolium n. sp., Dall, 1281.
 galvestonense n. sp., Harris, 2309.
 harrisii n. sp., Vaughan, 5722.
 hatchetigibbosa, Harris, 2313.
 ingens Wagner, Dall, 1273.
 (?) *mudgei* n. sp., Cragin, 1116.
 mudgei, Stanton, 5197.
 paupereulum, Meek, Herrick and Johnson, 2465.
 paupereulum Meek, Stanton, 5191.
 propecciliare n. sp., Dall, 1281.
 quinordinatum n. sp., Cragin, 1118.
 trite White, Stanton, 5191.
 tuomeyi Ald., Harris, 2315.
 tuomeyi, Harris, 2313.
 sp., Herrick and Johnson, 2465.
 s. s., Dall, 1281.
(*Cerastoderma*) *Morch*, Dall, 1281.
(*Cerastoderma*) *eraticuloides*, Whitfield, 6101.
 chipolanum n. sp., Dall, 1281.
 ciliatum Fabricius, Dall, 1281.
 decoratum Grewingk, Dall, 1281.
 druidicum n. sp., Dall, 1281.
 leptopleura Conrad, Dall, 1281.
 pansatrum n. sp., Dall, 1281.
 phlyctaena n. sp., Dall, 1281.
 robustum Solander, Dall, 1281.
 teniopleura n. sp., Dall, 1281.
 taphrium n. sp., Dall, 1281.
 virginianum Conrad, Dall, 1281.
 waltonianum n. sp., Dall, 1281.
(*Discors*) *Deshayes*, Dall, 1281.
(*Ethmocardium*) *White*, Dall, 1281.
(*Fragum*) *Bolton*, Dall, 1281.
 arestum n. sp., Dall, 1281.
 biangulatum Sowerby, Dall, 1281.
 burnsii n. sp., Dall, 1281.
 gatuncense n. sp., Dall, 1281.
 medium Linné, Dall, 1281.
 sp. indet., Dall, 1281.
(*Læviocardium*) *Swainson*, Dall, 1281.
 compressum n. sp., Dall, 1281.
 mortoni Conrad, Dall, 1281.
 serratum Linné, Dall, 1281.
 sublineatum Conrad, Dall, 1281.
(*Nemocardium*) *bisolaris* n. sp., Cragin 1116.
(*Papyridea*) *Swainson*, Dall, 1281.
 bulbosum n. sp., Dall, 1281.
 semisulcatum Gray, Dall, 1281.

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Genera and species described—Continued.

- Cardium* (Papyridea) *spinosum* Meuschen, Dall, 1281.
 var. *aspersum* Sowerby, Dall, 1281.
 var. *spinosum* s. s., Dall, 1281.
 var. *turtoni* Dall, Dall, 1281.
 (*Protocardia*) *texanum*, Stanton, 5197.
 (*Ringicardium*) *Fischer*, Dall, 1281.
 (*Trachycardium*) *Mörch*, Dall, 1281.
 var? *bowdenense* Dall, Dall, 1281.
cestum n. sp., Dall, 1281.
dalli Heilprin, Dall, 1281.
delphicum n. sp., Dall, 1281.
dominicanum n. sp., Dall, 1281.
emmonsii Conrad, Dall, 1281.
inconspicuum Guppy, Dall, 1281.
isocardia Conrad, Dall, 1281.
lingualeonis Guppy, Dall, 1281.
malacum n. sp., Dall, 1281.
muricatum Linné, Dall, 1281.
oedaliu Dall, Dall, 1281.
parile n. sp., Dall, 1281.
precursor n. sp., Dall, 1281.
virile n. sp., Dall, 1281.
 (*Trigoniocardia*) *allicula* n. sp., Dall, 1281.
 aminense n. sp., Dall, 1281.
 apateticum n. sp., Dall, 1281.
 maturrense n. sp., Dall, 1281.
 simrothi n. sp., Dall, 1281.
 willcoxi n. sp., Dall, 1281.
 (*Tropidocardium*) *Roemer*, Dall, 1281.
Carex burrardiana n. sp., Dawson, 1448.
 vancouverensis n. sp., Dawson, 1448.
Cariacus laevis n. sp., Cope, 1101, 1104.
 sp., Cope, 1104.
Caricella claibornensis Harris, Harris, 2308.
 demissa var. *texana* Gabb. Harris, 2307.
 leana, Harris, 2310.
 plicata n. sp., Whitfield, 6097.
 podagrina Dall, Dall, 1259.
 podagrina Dall, Harris, 2311, 2316.
 ponderosa n. sp., Whitfield, 6097.
 pyruloides, Whitfield, 6097.
 subangulata var. *cherokeensis* n. var., Harris, 2307.
 sp., Clark, 906.
Carinaria caperata n. sp., Guppy and Dall, 2214.
Carinaropsis Hall, Ulrich and Scofield, 5541.
 acuta n. sp., Ulrich and Scofield, 5541.
 cunula Hall, Ulrich and Scofield, 5541.
 cymbula Hall, Ulrich and Scofield, 5541.
 explanata n. sp., Ulrich and Scofield, 5541.
 minima n. sp., Ulrich and Scofield, 5541.
 phalera Sardeson, Ulrich and Scofield, 5541.
Carolia Cantraine, Dall, 1272.
 (*Carolia*) *jamaicensis* n. sp., Dall, 1272.
 (*Wakullina*) *floridiana* n. sp., Dall, 1269, 1272.
Carpinus grandis Ung., Newberry, 4083.
Carpites coniger n. sp., Lesquereux, 3470.
 cordiformis n. sp., Lesquereux, 3470.
 obovatus n. sp., Lesquereux, 3470.
 pedunculatus n. sp., Knowlton, 3255.
 triangulosus Lx., Knowlton, 3264.

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- Carpolites*, Dawson, 1434.
 spinosus Newb., Newberry, 4083.
 lineatus Newb., Newberry, 4083.
 transsectus Lx., White, 6052.
 (*Zamites*) *meridionalis* n. sp., Dawson, 1436.
Carpolithus barrenis Ward n. sp., Fontaine, 1850.
 drupæformis n. sp., Hollick, 2698.
 fasciculatus Fontaine, 1850.
 floribundus n. sp., Newberry, 4080.
 fœnarius Ward n. sp., Fontaine, 1850.
 harveyi n. sp., Fontaine, 1846, 1847.
 hirsutus n. sp., Newberry, 4080.
 montium-nigrorum Ward, n. sp., Fontaine, 1850.
 obovatus n. sp., Fontaine, 1846, 1847.
 ovæformis n. sp., Newberry, 4080.
 pruniformis n. sp., Newberry, 4080.
 storrssii Fontaine, Ward, 5857.
 virginiensis Fontaine, Fontaine, 1850.
 woodbridgensis n. sp., Newberry, 4080.
Carpomanon glandulosum n. sp., Rauff, 4548.
 stellatum-sulcatum (F. Rom.), Rauff, 4548.
 var. *distorta*, Rauff, 4548.
Carpophilus restructus n. sp., Scudder, 4900.
Carposphæra, Matthew, G. F., 3760.
Cartægus atavina Heer, Lesquereux, 3472.
Carvocaris Salter, Gurley, 2217.
 curvilatus n. sp., Gurley, 2217.
 oblongus n. sp., Gurley, 2217.
 wrightii Salter, Gurley, 2217.
Carya antiquum Newb., Newberry, 4083.
Caryates veta, Whitfield, Herrick and Johnson, 2465.
Caryocerin *bulbulus* n. sp., Miller and Gurley, 3997c.
 ellipticus n. sp., Miller and Gurley, 3997c.
 hammelli n. sp., Miller and Gurley, 4000.
 indianensis n. sp., Miller, 3992.
 kentuckiensis n. sp., Miller and Gurley, 3997d.
 milligana n. sp., Miller and Gurley, 4000.
Caryocerin *ites* n. gen., Say, 4813.
 ornatus, Say, 4813.
Caryomanon inciso-lobatum (F. Rom.), Rauff, 4548.
 roemeri (Hinde), Rauff, 4548.
Caryophyllia dalli n. sp., Vaughan, 5735.
 texana n. sp., Vaughan, 5735.
Caryospongia juglans var. *nuxmoschata* Hall, Rauff, 4548.
Cassia obtusa n. sp., Knowlton, 3246.
 polita n. sp., Lesquereux, 3470.
 problematica n. sp., Lesquereux, 3470.
 sp. ?, Newberry, 4083.
Cassidula brevidentata Ald. var., Harris, 2311, 2315, 2316.
 carinata Lam. ?, Whitfield, 6097.
 dubia Ald., Harris, 2316.
Cassidulus æquoreus Morton, Clark, 892.
 forealis (Morton), Clark, 892.
 micrococcus Gabb, Clark, 892.
 porrectus Clark, Clark, 892.
 stantoni Clark, Clark, 892.

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- Cassidulus subconicus* Clark, Clark, 892.
subquadratus Conrad, Clark, 892.
Cassis (*Phalium*) *globosum* Dall, Dall, 1259.
Castalia? *duttoniana* n. sp., Knowlton, 3264.
pulchella n. sp., Knowlton, 3255.
Castanea castaneaefolia (Unger), Knowlton, 3262.
Castor fiber Linn., Cope, 1104.
Castoroides, Moore, 4032.
ohioensis, Moore, 4027.
Casuarina covellei n. sp., Ward, 5846.
quadrivalvis Labill, Ward, 5846.
Catenipora Lam., Say, 4813.
Catobaris n. gen., Seudder, 4890.
cænosa, Seudder, 4890.
Catopygus oviformis Conrad, Clark, 892.
pusillus Clark, Clark, 892.
Cavoscala n. gen., Whitfield, 6097.
annulata, Whitfield, 6097.
Celastrophyllum augustifolium n. sp., Newberry, 4080.
brittonianum Hollick n. sp., Newberry, 4080.
erassipes, n. sp., Lesquereux, 3470.
erematum Heer, Newberry, 4080.
eretaceum n. sp., Lesquereux, 3470.
eretaceum Lesq., Newberry, 4080.
decurrens n. sp., Lesquereux, 3470.
grandifolium n. sp., Newberry, 4080.
hunteri n. sp., Ward, 5846.
minus Hollick n. sp., Newberry, 4080.
mysinoides n. sp., Lesquereux, 3470.
newberryanum Hollick n. sp., Newberry, 4080.
newberryanum Hollick, Hollick, 2698.
obliquum n. sp., Lesquereux, 3470.
pulehrum n. sp., Ward, 5856.
robustum n. sp., Newberry, 4080.
spatulatum, n. sp., Newberry, 4080.
undulatum n. sp., Newberry, 4080.
Celastrus arctica Heer, Hollick, 2696.
arctica Heer, Newberry, 4080.
culveri n. sp., Knowlton, 3255.
ellipticus n. sp., Knowlton, 3255.
inaequalis n. sp., Knowlton, 3255.
lindgreni, n. sp., Knowlton, 3246.
tauriniensis Ward, (?) Hollick, 2708.
veatchi n. sp., Hollick, 2708.
Cenellipsis, Matthew, G. F., 3760.
Cenoceras aratum, Hyatt, 2819.
elausum, Hyatt, 2819.
granulosum, Hyatt, 2819.
intermedium, Hyatt, 2819.
lineatum, Hyatt, 2819.
Cenosphæra, Matthew, G. F., 3760.
Centrinus disruptus, Seudder, 4890.
obnuptus, Seudder, 4890.
Centroceras, Hyatt, 2819.
Centron n. gen., Seudder, 4890.
moricollis, Seudder, 4890.
Centronella Billings, Grabau, 2086.
Centronella Billings, Hall and Clarke, 2261a, 2264.
emaciata n. sp., Rowley, 4677a.
impressa Hall, Grabau, 2086.

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- Centronella* Billings, (*Oriskania* Hall), Hall and Clarke, 2264.
 (*Romingerina* Hall), Hall and Clarke, 2264.
 (*Selennella* Hall), Hall and Clarke, 2264.
Cephalaspidae, Case, 766.
Cephalotaxopsis carolinenses Fontaine, n. sp., Ward, 5857.
magnolia Fontaine, Fontaine, 1850.
Cephalotropis coronatus n. gen. et sp., Cope, 1100.
Ceramella, Simpson, 4983.
Ceramophylla n. gen., Ulrich, 5537.
frondosa n. sp., Ulrich, 5537.
Ceramopora, Simpson, 4983.
Ceramoporella, Simpson, 4983.
Ceramoporella Ulrich, Ulrich, 5537.
distincta Ulrich, Ulrich, 5537.
inclusa, n. sp., Ulrich, 5537.
interporosa n. sp., Ulrich, 5537.
Ceratocaris acuminata Hall, Stose, 5269.
poduriformis n. sp., Whitfield, 6104.
Ceratodictya n. gen., Hall and Clarke, 2269, 2270.
annulata Hall (sp.), Hall and Clarke, 2269, 2270.
carpenteriana n. sp., Hall and Clarke, 2269, 2270.
centeta n. sp., Hall and Clarke, 2269, 2270.
eineta Hall (sp.), Hall and Clarke, 2269, 2270.
zonata n. sp., Hall and Clarke, 2269, 2270.
Ceratodus americanus n. sp., Knight, 3207.
robustus n. sp., Knight, 3207.
Ceratops, Marsh, 3701.
Ceratopora n. gen., Grabau, 2086, 2088.
diehotoma n. sp., Grabau, 2086, 2088.
distorta n. sp., Grabau, 2088.
jacksoni n. sp., Grabau, 2086, 2088.
Ceratopsis n. gen., Ulrich, 5540.
chambersi Miller, Ulrich, 5540.
var. robusta n. var., Ulrich, 5540.
Ceratosaurus, Case, 768.
Ceratosaurus Marsh, 3701, 3702.
Ceratostigma papillata n. gen. et sp., Clarke, 946.
Cemaurus milleranus n. sp., Miller and Gurley, 3997a.
pleurexanthemus Green, 1832, Clarke, 952.
 (*Pseudosphæroechus*) *elintoni* n. sp., Foreste, 1835.
Cercis? *nevadensis* n. sp., Knowlton, 3263.
Cereopsis grandescens, Seudder, 4895.
selwyni, Seudder, 4895.
Cereyon? *terrigena*, Seudder, 4895.
Cerecopites torpescens, Seudder, 4895.
Cerioerinus hemisphericus (Shumard), Keyes, 3061.
monticulatus n. sp., Beede, 394.
nodulifera n. sp., Butts, 672.
Cerionites daetylloides Owen, Calvin, 686.
Cerithioderma (*Mesostoma*) *prima* Con., Aldrich, 73.
Cerithiopsis conica n. sp., Aldrich, 74.
conica Ald., Harris, 2316.

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- Cerithiopsis dalli* n. sp., Aldrich, 74.
fluviatilis n. sp., Aldrich, 74.
fluviatilis Ald., Harris, 2316.
metaxæ Della Chiaje var. *tæniolata* Dall,
 Dall, 1259.
scariphus n. sp., Dall, 1259.
terebropsis n. sp., Harris, 2316.
Cerithium algicola C. B. Adams, Dall, 1259.
bosquense Shum., Cragin, 1115.
burnsii n. sp., Dall, 1259.
callisoma n. sp., Dall, 1259.
caloosaense, Dall, 1259.
chipolanum n. sp., Dall, 1259.
claytonense n. sp., Aldrich, 70.
coccodes n. sp., Dall, 1259.
delicatum n. sp., Aldrich, 74.
delicatum Ald., Harris, 2316.
fairbanksi n. sp., Cooper, 1071.
floridanum Morch, Dall, 1259.
gainesensis n. sp., Harris, 2310.
galvestonense n. sp., Harris, 2309.
georgianum Lyell and Sowerby, Dall, 1259.
glaphyrca n. sp., Dall, 1259.
 var. *litharium*, Dall, 1259.
globoleve n. sp., Harris, 2310.
interlineatum n. sp., Cragin, 1115.
mediavæ n. sp., Harris, 2310.
muscarum Say, Dall, 1259.
ocalanum n. sp., Dall, 1259.
paskentaenis n. sp., Stanton, 5199.
penrosei n. sp., Harris, 2307, 2310.
platynema n. sp., Dall, 1259.
precursor Heilprin, Dall, 1259.
proctori n. sp., Cragin, 1115.
serratoides n. sp., Aldrich, 71.
strigosum n. sp., Stanton, 5199.
tombigbeense Ald., Harris, 2316.
tramitensis n. sp., Cragin, 1115.
vinctum, Whitfield, Dall, 1259.
webbi n. sp., Harris, 2307.
 (*Companile*) *claytonense*, Harris, 2310.
 sp. indet., Dall, 1259.
 sp., Harris, 2309.
 sp., Stanton, 5199.
Ceronia singleyi n. sp., Harris, 2307.
Cetiosaurus, Case, 768.
Cetiosaurus, Osborn, 4218.
Cetochilus septentrionalis, Beccher, 366.
Cetotherium cephalus, Cope, 768.
 crassangulum n. sp., Cope, 1096,
 dauidsonii, Cope, 1100.
 leptocentrum, Cope, 1100.
 magalophysum n. sp., Cope, 1096, 1100.
 pussillum Cope, Cope, 1096.
Ceuthorhynchus clausus, Scudder, 4890.
 compactus, Scudder, 4890.
 degravatus, Scudder, 4890.
 duratus, Scudder, 4890.
 evinetus, Scudder, 4890.
Chænomya longa n. sp., Miller and Gurley,
 4002.
 minnehaha (Swallow), Keyes, 3062.
Chætetes milleporaceus Troost, Keyes, 3061.
 perantiquus n. sp., Whiteaves, 6087.
Chætocladius plumula n. gen. et sp., Whitfield,
 6087.

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- Chætomorpha* (?) *prima* n. sp., Whitfield, 6087.
Chalicotherium, Osborn, 4178, 4185.
Chama agassizii Wagner, Dall, 1273.
 congregata, Whitfield, 6101.
 gainesensis n. sp., Harris, 2310.
Chamops segnis n. gen. et sp., Marsh, 3671.
Champsosaurus, Case, 768.
Chara stantoni n. sp., Knowlton, 3221.
 stantoni Knowlton, White, 6036.
Charactophyllum n. gen., Simpson, 4984.
Charionella Billings, Hall and Clarke, 2261.
Charydrobia stachei n. sp., White, 6036.
Chauliognathus pristinus, Scudder, 4900.
Cheilocephalus n. gen., Berkey, 429.
 st. croixensis n. sp., Berkey, 429.
Cheirolepis canadensis, Claypole, 994.
 muensteri (Schenk) Schimper, Ward,
 5857.
 trailli, Claypole, 994.
Chelydosaurus, Case, 767.
Chemnitzia ? *coalvillensis* Meek, Herrick and
 Johnson, 2465.
 coalvillensis Meek, Stanton, 519.
Chiasoclonella headi n. sp., Rauff, 4549.
Chicagocrinus n. gen., Weller, 6002.
 inornatus n. sp., Weller, 6002.
 ornatus n. sp., Weller, 6002.
Chilocorus ulkei n. sp., Scudder, 4900.
Chiloporella, Simpson, 4983.
Chilopus dubius n. gen. et sp., Matthew, G.
 F., 3759.
Chilotrypa, Simpson, 4983.
Chione (?) *decepta* n. sp., Hill, 2539.
 ulocyma, Harris, 2309.
Chirospongia, James, 2881.
 faberi, James, 2881.
Chiton (*Trachyodon*) *eocenensis* Conrad,
 Dall, 1259.
Chlamydoselachus, Claypole, 993.
Chlamys choctawensis, Harris, 2313.
 greggi n. sp., Harris, 2313.
Chondrenchelys, Case, 2313.
Chondrilla ? sp., Merrill, 3969.
Chondrites cuneatus n. sp., Whiteaves, 6087.
 cupressinus n. sp., Whiteaves, 6083, 6087.
 flexuosus n. sp., Newberry, 4080.
 gracillimus n. sp., Whiteaves, 6083, 6087.
 heeri Eichwald, Knowlton, 3232.
 metissicus n. sp., Dawson, 1452.
 patulus n. sp., Whiteaves, 6088.
 (*Bythotrephes*) *patulus*, Whiteaves, 6087.
Chondrophyllum obovatum n. sp., Newberry,
 4080.
 reticulatum Hollick n. sp., Newberry,
 4080.
Chonetella Waagen, Hall and Clarke, 2260.
Chonetes Fischer de Waldheim, Grabau, 2086.
Chonetes Fischer de Waldheim, Hall and
 Clarke, 2260.
 coronatus (Conrad), Grabau, 2086.
 flemingi Norwood and Pratten, Keyes,
 3062.
 cf. *geniculata* White, Weller, 6006.
 granulifera Owen, Keyes, 3062.
 hudsonica n. sp., Clarke, 971.

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- Chonetes illinoisensis* Worthen, Weller, 5994, 6006.
laevis Keyes, Keyes, 3062.
lepidus Hall, Grabau, 2086.
loganensis Hall and Whitfield, Girty, 2038.
manitobensis n. sp., Whiteaves, 6096.
mesolobus Norwood and Pratten, Girty, 2037.
millepunctatus Meek and Worthen, Keyes, 3062.
mucronatus Hall, Grabau, 2086.
 cf. *Nova-Scotica*, Hall, Clarke, 976.
ornatus Shumard, Girty, 2086.
reversa, Whitfield, 6099.
scitula, Whitfield, 6099.
scitulus Hall, Grabau, 2086.
setigerus (Hall), Grabau, 2086.
vicinus (Castelnau), Grabau, 2086.
 sp., Girty, 2039.
 sp. undet. Weller, 6006.
Chonetina Krotow, Hall and Clarke, 2260.
Chonopectus n. gen., Hall and Clarke, 2260.
 fischeri (N. & P., Weller, 6006.
Chonophyllum belli Billings, Sherzer, 4951.
canadense Billings sp., Lambe, 3375.
capax Hall, Sherzer, 4951.
ellipticum Hall and Whitfield, Sherzer, 4951.
elongatum Edwards and Haime, Sherzer, 4951.
greeniei n. sp., Sherzer, 4951.
magnificum Billings, Sherzer, 4951.
niagarensis Hall, sp., Sherzer, 4951.
nymphale Billings, sp., Lambe, 3375.
perfoliatum Goldiuss, sp., Sherzer, 4941.
ponderosum Rominger, Sherzer, 4951.
pseudoheliantoides n. sp., Sherzer, 4951.
sedaliense White, Keyes, 3061.
sedaliense White, Sherzer, 4951.
vadium Hall, Sherzer, 4951.
Chonostrophia n. gen., Hall and Clarke, 2260.
complanata Hall, Clarke, 971.
helderbergia n. sp., Hall and Clarke, 2260, 2268.
Chriacidae n. fam., Osborn and Earle, 4191.
Chriacus Cope, Matthew, 3800, 3801.
Chriacus ? Osborn and Earle, 4191.
 baldwini (Cope), Matthew, 3800, 3801.
 baldwini Cope, Osborn and Earle, 4191.
 pelvidens (Cope), Matthew, 3800, 3801.
 schlosserianus Cope, Matthew, 3800, 3801.
 truncatus Cope, Matthew, 3800, 3801.
Christiana n. gen., Hall and Clarke, 2260.
 subquadratus, Hall and Clarke, 2268.
 subquadrata n. sp., Hall and Clarke, 2260.
Chrysobalanus pollardiana n. sp., Knowlton, 3263.
Chrysobothris haydeni, Seudder, 4900.
Chrysodomus engonata Heilp, Harris, 2316.
 parbrazana n. sp., Harris, 2307.
 striata Ald., Harris, 2316.
Chuararia circularis n. gen., et sp., Walcott, 5815.
Cicada grandoisa, Seudder, 4889.
Cidaris californicus Clark, 892.

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- Cidaris dixiensis* n. sp., Cragin, 1115.
 splendens, Morton, Clark, 892.
 tayloriensis Clark, Clark, 892.
 texanus Clark, Clark, 892.
 walcotti Clark, Clark, 892.
 sp., Cragin, 1115.
Cimitaria karsteni, n. sp., Clarke, 976.
 sp., Clarke, 976.
Cimoliosaurus, Case, 768.
 laramiensis n. sp., Knight, 3216.
 snovii, Williston, Cope, 1097.
 n. sp., Williston, 6224.
Cimolodon agilis n. sp., Marsh, 3671.
 parvus n. sp., Marsh, 3671.
Cimolopteryx Marsh, Marsh, 3674.
Cineinnatia cineinnatiensis Anth, Baker, 217.
Cinehonidium? *turneri* n. sp., Knowlton, 3263.
Cinnamomum affine Lx. emend, Knowlton, 3264.
 buchi Heer, Hollick, 2708.
 dilleri n. sp., Knowlton, 3262.
 ellipsoideum Sap. & Mar., Lesquereux, 3470.
 elipticum n. sp., Knowlton, 3222.
 heeri Lesq., Lesquereux, 3470.
 heeri, Lesq., Newberry, 4083.
 intermedium n. sp., Newberry, 4080.
 marioni n. sp., Lesquereux, 3470.
 scheuchzeri Heer (?), Hollick, 2708.
 scheuchzeri Heer, Lesquereux, 3470, 3472.
 sezannense Watelet, Dawson, 1436.
 sezannense Wat., Hollick, 2708.
 sezannense Watelet, Lesquereux, 3470.
 spectabile Heer, Knowlton, 3255.
 ? *stantoni* n. sp., Knowlton, 3264.
Cinulia ovoidea, Whitfield, 6097.
 tarrantensis n. sp., Cragin, 1115.
 (*Oligoptycha*) *naticoides*, Whitfield, 6097.
Ciprina coterai n. sp., Aguilera, 57.
Ciprymeria (?) *mexicana* n. sp., Aguilera, 57.
Cirripeds, Clarke, 971.
 plumulites sp. Clarke, 971.
Cirripodites n. gen., Matthew, 3770.
Cissites acerifolius n. sp., Lesquereux, 3470.
 acutiloba n. sp., Hollick, 2681.
 alatus n. sp., Lesquereux, 3470.
 brownii Lesq., Lesquereux, 3470.
 crispus Vel. ?, Newberry, 4080.
 dentato-lobatus n. sp., Lesquereux, 3470.
 formosus Heer, Lesquereux, 3470.
 formosus Heer, Newberry, 4080.
 ingens n. sp., Lesquereux, 3470.
 var. *parvifolia* n. var., Lesquereux, 3470.
 ingens Lx., Ward, 5856.
 obtusilobus n. sp., Lesquereux, 3472.
 platanoidea n. sp., Hollick, 2681.
 populoides n. sp., Lesquereux, 3472.
 salisburyi folius Lx., Ward, 5856.
Cissus browniana n. sp., Lesquereux, 3472.
 haguei n. sp., Knowlton, 3255.
Cistella Gray, Hall and Clarke, 2264.
 beccheri n. sp., Clark, 903.
 plicatilis n. sp., Clark, 903.

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- Cithara crosswickensis* n. sp., Whitfield, 6097.
mullicensis n. sp., Whitfield, 6097.
Cladochonus benetti n. sp., Beede, 386.
Cladocora jamaicensis n. sp., Vaughan, 5734.
johnsoni n. sp., Gane, 1934.
recreescens Lonsdale, Vaughan, 5735.
Cladodus clarki, Claypole, 986, 992.
claypolei, Hay, 2381.
corriger, Hay, 2381.
girtyi, n. sp., Hay, 2388.
kepleri, Claypole, 986.
 (?) *magnificus*, Claypole, 993.
monroei n. sp., Eastman, 1608.
mortifer N. & W., Newberry, 4082.
rivi-petrosi, Claypole, 986.
sinuatus, Claypole, 986.
splendens Newb., Newberry, 4082.
Cladoneura n. gen., Scudder, 4894.
willistoni, Scudder, 4894.
Cladophlebis columbiana n. sp., Dawson, 1436.
argutula (Heer) Fontaine, Ward, 5857.
densifolia Fontaine, Ward, 5857.
falcata, Dawson, 1436.
indica (Oldham and Morris) Fontaine?, Ward, No. 5857.
reticulata Fontaine n. sp., Ward, 5857.
spectabilis (Heer) Fontaine, Ward, 5857.
whitbiensis tenuis var. Heer?, Ward, 5857.
Cladophlebis parva Fontaine?, Fontaine, 1850.
wyomingensis n. sp., Fontaine, 1850.
Cladopora Hall, Lambe, 3374.
clarkei n. sp., Girty, 2034.
crassa Rominger, Lambe, 3374.
cryptodens Billings (sp.), Lambe, 3374.
fischeri Billings (sp.), Lambe, 3374.
frondosa Nicholson (sp.), Lambe, 3374.
gurleyi, n. sp., Greene, 2162b.
halli n. sp., Girty, 2034.
intermedia, n. sp., Greene, 2162b.
labiosa Rominger, Lambe, 3374.
lichenoides Rominger, Lambe, 3374.
multiplora Hall, Lambe, 3374.
roemeri Billings (sp.), Lambe, 3374.
smiera n. sp., Clarke, 971.
stypheia, n. sp., Clarke, 971.
turgida Rominger, Lambe, 3374.
 sp., Girty, 2038.
Cladoselache n. gen., Dean, 1470.
Cladoselache Case, 766.
newberryi n. sp., Dean, 1470.
Cladura Osten Sacken, Scudder, 4894.
integra, Scudder, 4894.
maculata, Scudder, 4894.
Clanodon Scott, Matthew, 3800, 3801.
corrugatus (Cope), Matthew, 3800, 3801.
ferox (Cope), Matthew, 3800, 3801.
ferox Cope, Osborn and Earle, 4191.
 (?) *protogonioides* (Cope), Matthew, 3800, 3801.
Claosaurus, Case, 768.
Claosaurus Marsh, 3675, 3678, 3701, 3702.
annectens n. sp., Marsh, 3672.
annectans Marsh, Williston, 6245.
Clathrodictylon jewetti n. sp., Girty, 2034.
Clathrospira n. gen., Ulrich and Scofield, 5541.

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- Clathrospira conica* n. sp., Ulrich and Scofield, 5541.
convexa n. sp., Ulrich and Scofield, 5541.
subconica Hall, Ulrich and Scofield, 5541.
Clathrosporgia Hall, Hall and Clarke, 2269, 2270.
abacus Hall, Hall and Clarke, 2269, 2271.
caprodonta n. sp., Hall and Clarke, 2269, 2271.
 (?) *desmia* n. sp., Hall and Clarke, 2269, 2270.
fenestrata Hall (sp.), Hall and Clarke, 2269, 2270.
 (?) *hamiltonensis* Hall (sp.), Hall and Clarke, 2269, 2270.
 (?) *irregularis* Hall (sp.), Hall and Clarke, 2269, 2270.
 (?) *tomaculum* Hall (sp.), Hall and Clarke, 2269, 2270.
vascellum Hall (sp.), Hall and Clarke, 2269, 2270.
Clathropora, Simpson, 4983.
Clathurella amicta n. sp., Guppy and Dall, 2214.
vendryesiana n. sp., Guppy and Dall, 2214.
Clava caloosensis n. sp., Dall, 1259.
chipolana n. sp., Dall, 1259.
Clavella raphanoides?, Whitfield, 6097.
Clavilithes humerosus var. *texanus* n. var., Harris, 2307.
kennedyanus n. sp., Harris, 2307, 2316.
regexus n. sp., Harris, 2307.
 (Papillina) *dumosus* var. *trapaquarus* n. var., Harris, 2307.
Clavulina communis d'Orbigny, Bagg, 150.
parisiensis d'Orbigny, Bagg, 150.
Cleidophorus consuetus n. sp., Ulrich, 5534.
Cleionychia rhomboidea n. gen. et sp., Ulrich, 5531.
Cleistopora placenta (White), Keyes, 3061.
 type Wincheil, Keyes, 3061.
Clementia (?) *teniosa* n. sp., Guppy and Dall, 2214.
Clemmys insculpta Le Conte, Cope, 1104.
percerassus Cope, Cope, 1104.
Cleodictya Hall, Hall and Clarke, 2269, 2271.
claypolei n. sp., Hall and Clarke, 2269, 2271.
gloriosa Hall, Hall and Clarke, 2269, 2271.
mohri Hall, Hall and Clarke, 2269, 2271.
Cleonus degeneratus, Scudder, 4890.
exterraneus, Scudder, 4890.
foersteri, Scudder, 4890.
primoris, Scudder, 4890.
Clepsydrops Cope, Williston, 6247.
colletii Cope, Case, 773.
pedunculatus Cope, Case, 773.
vinslovii Cope, Case, 773.
Clepsydroporgia matutina n. sp., Hall and Clarke, 2269, 2270.
Clidastes, Williston, 6222, 6238, 6245.
cinerarium, Williston, 6245.
liodontus, Williston, 6245.
stenops, Williston, 6245.
tortor, Williston, 6245.

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- Clidastes velox*, Williston, 6245.
velox, Williston and Case, 6221.
westii n. sp., Williston and Case, 6221.
westii, Williston, 6245.
wymani, Williston, 6245.
Clidophorus Hall, Ulrich, 5539.
brazilianus, n. sp., Clarke, 976.
consuetus Ulrich, Ulrich, 5539.
neglectus Hall, Ulrich, 5539.
Climacograptus James, 2881.
antiquus Lapworth n. sp., Gurley, 2217.
bicornus James, 2881.
celatus Lapworth, Gurley, 2217.
caudatus Lapworth, Gurley, 2217.
caudatus laticaulis n. v. r., Gurley, 2217.
kamptotheca n. sp., Gurley, 2217.
oligotheca n. sp., Gurley, 2217.
phylophorus n. sp., Gurley, 2217.
typicalis James, 2881.
Climatius, Case, 766.
Clinoceras mumlaforme Whitfield, 1878, Clarke, 952.
Clinopistha (?) *antiqua* n. sp., Whiteaves, 6087.
radiata (Hall), Keyes, 3062.
Clintonella n. gen., Hall and Clarke, 2261.
vagabunda, Hall and Clarke, 2268.
Clionychia Ulrich, Ulrich, 5539.
erecta Hall, Ulrich, 5539.
excavata n. sp., Ulrich, 5535.
lunellosa Hall, Ulrich, 5539.
nitida n. sp., Ulrich, 5539.
rhomboidea Ulrich, Ulrich, 5539.
subdunata n. sp., Ulrich, 5535.
undata Emmons, Ulrich, 5539.
Clithyrus crassicaudalis White, Girty, 2038.
var. nana n. var., Girty, 2038.
roissy Walcott (non Léveillé), Girty, 2038.
see Athyrus, (*Clithyrus*) King, Hall and Clarke, 2261.
Glisiophyllum billingsi Dawson sp., Lambe, 3375.
teres n. sp., Girty, 2038.
Clitambonites Pander, Hall and Clarke, 2260.
Clitambonites Pander, Winchell and Schuchert, 6319.
diversa Shaler, Whiteaves, 6087.
diversa Shaler sp., Winchell and Schuchert, 6319.
var. altissima n. var., Winchell and Schuchert, 6319.
(*Gonambonites*) *plana* Pander var., Matthew, 3767.
var. retroflexa de Verneuil, Matthew, 3767.
Clonograptus proximatus n. sp., Matthew, G. F., 3762.
spinus n. sp., Matthew, 3746.
Clonopora, Simpson, 4983.
Clymenia, Clarke, 937.
Glypeaster? brewerianus Rémond, Merriam, 3922.
Cococorinus Müller, Wachsmuth and Springer, 5765a.
bacca Roemer, Wachsmuth and Springer, 5765a.

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- Cocosteus*, Case, 766.
Cocosteus, Claypole, 994.
canadensis n. sp., Woodward, 6135.
cuyahogae n. sp., Claypole, 985, 990.
decipiens Ag., Dean, 1472.
halmodeus (?) n. sp., Clarke, 946.
macromus n. sp., Cope, 1450.
Cocotorus principalis, Scudder, 4890.
requiescens, Scudder, 4890.
Codaster blairi n. sp., Miller and Gurley, 3998.
gracillimus (Rowley and Hare), Rowley, 4677.
grandis, Rowley, 4677.
jessiae n. sp., Miller and Gurley, 4001.
Codonites? inopinatus (Rowley and Hare), Rowley, 4677.
(*Cryptoschisma?*) *levieulus* n. sp., Rowley, 4677, 4677a.
(*Orophocrinus*) *whitii* (Hall), Rowley, 4677.
Coelothyris Douville, Hall and Clarke, 2264.
Coelacanthus, Case, 766.
robustus Newb., Hay, 2388.
Celidia columbiana, Scudder, 4895.
Celioerinus dilatatus, Whitfield, 6098.
Celiodes primitivus, Scudder, 4890.
Coelocaulis, Simpson, 4983.
Coelocaulis (Ehlert, Ulrich and Scofield, 5541).
neglectus n. sp., Ulrich and Scofield, 5541.
ehlerti n. sp., Ulrich and Scofield, 5541.
Coeloconus, Simpson, 4983.
Celodus brownii n. sp., Cope, 1093.
brownii, Williston, 6259.
stantoni n. sp., Williston 6259.
Celogasteroceras, Hyatt, 2819.
Celohelia wagneriana n. sp., Vaughan, 5735.
Celonautilus Foord, pars., Hyatt, 2816.
Celospira, *see Anoplothea*, (*Celospira*) Hall, Hall and Clarke, 2261.
concaea Hall, Clarke, 971.
dichotoma Hall, Clarke, 971.
Coelurus, Case, 768.
Coelurus Marsh, 3701.
Coenites Eichwald, Lambe, 3374.
juniperina Eichwald, Lambe, 3374.
lunata Nicholson and Hinde, Lambe, 3374.
schwynii Nicholson (sp.), Lambe, 3374.
Coeloides, Walcott, Matthew, 3790.
typicalis, Walcott, Matthew, 3790.
Coelolus Hall, Grabau, 2086.
elintonensis n. sp., Foerste, 1835.
(?) gracilis Hall, Grabau, 2086.
tenuicinctum, Grabau, 2086.
Collonia chipolana n. sp., Dall, 1259.
claibornensis, n. sp., Dall, 1259.
elegantula n. sp., Dall, 1259.
radiata n. sp., Dall, 1259.
Coloceras n. gen., Hyatt, 2816.
globulare n. sp., Hyatt, 2816.
globatum, Hyatt, 2818.
Colodon Marsh, Osborn and Wortman, 4192.
dakotensis n. sp., Osborn and Wortman, 4192.
dakotensis O. and W., Hatcher, 2336.

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- Colodon longipipes* O. & W., Osborn and Wortman, 4192.
luxatus Marsh, 3681.
occidentalis Leidy, Wortman and Earle, 6481.
proeuspidatus n. sp., Osborn and Wortman, 4192.
(Lophiodon) occidentalis Leidy, Hatcher, 2336.
Colosteus, Case, 767.
Colpomya n. gen., Ulrich, 5539.
constricta n. sp., Ulrich, 5535.
demissa n. sp., Ulrich, 5539.
Columbella mississippiensis M'r and Ald., Aldrich 73.
(Anachis) Adams, Dall, 1259.
avara Say, Dall, 1259.
avara var. *amydra* Dall, Dall, 1259.
avara var. *caloosacensis* Dall, Dall, 1259.
camax n. sp., Dall, 1259.
ichitoma n. sp., Dall, 1259.
styliola n. sp., Dall, 1259.
(Astyris) Adams, Dall, 1259.
lunata Say, Dall, 1259.
profundi Dall, Dall, 1259.
Columnaria, James, 2881.
alveolata, James, 2881.
alveolata Goldfuss, Whiteaves, 6387.
calicina, James, 2881.
(?) halli, James, 2881.
? halli Nicholson, Winchell and Schuchert, 6318.
rugosa Billings sp., Lamb, 3375.
stellata ? (Hall), Keyes, 3061.
(Cyathophylloides) disjuncta n. sp., Whiteaves, 6074.
Colutea primordialis Heer, Lesquereux, 3470.
primordialis Heer, Newberry, 4080.
Comarocystites obconicus Meek and Worthen, Keyes, 3061.
shumardi Meek and Worthen, Keyes, 3061.
Comephyllum cristatum Emmons, Ward, 5857.
Comphoceras ortonii n. sp., Foerste, 1835.
Compsomys, Case, 768.
Compsocrinus S. A. Miller, Wachsmuth and Springer, 5765a.
harrisi S. A. Miller, Wachsmuth and Springer, 5765a.
miamiensis (S. A. Miller), Wachsmuth and Springer, 5765a.
Conchidium Linné, Hall and Clarke, 2264.
crassiplica n. sp., Hall and Clarke, 2261a, 2263, 2268.
exponens, Hall and Clarke, 2268.
georgiæ n. sp., Hall and Clarke, 2263.
georgiæ, Hall and Clarke, 2261a, 2267.
greenii n. sp., Hall and Clarke, 2261a, 2263, 2267.
nettelrothi, Hall and Clarke, 2267.
obsoletum, Hall and Clarke, 2267.
scoparium, Hall and Clarke, 2267.
Congeria lamellata n. sp., Dall, 1272.
leucophaea Conrad, Dall, 1272.
Coniatus evisceratus, Scudder, 4890.
refractus, Scudder, 4890.

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- Coniophis precedens* n. gen. et sp., Marsh, 3672.
Conocardium Bronn, Grabau, 2086.
aliforme Sowerby, Smith, 5046.
crassifrons (Conrad), Grabau, 2086.
eboraceum Hall, Grabau, 2086.
elrodi n. sp., Miller, 3992.
exiguum n. sp., Miller, 3992.
inceptum Hall (?), Clarke, 971.
indianense n. sp., Miller, 3992.
normale Hall, Grabau, 2086.
parvulum n. sp., Miller, 3992.
parrishi Worthen, Keyes, 3062.
pulchellum White and Whitfield (?), Girty, 2038.
spinalatum n. sp., Rowley, 4677a.
Conocephalites Barrande, Matthew, 3788.
(conaspis?) cf. *perseus*, Hall, Matthew, 3788.
miser Billings, Matthew, 3776.
Conocoryphe pustulosa n. sp., Matthew, 3776.
Conocorypha (Bailiella) baileyi, Beecher, 366.
Conolichas cornutus n. sp., Clarke, 952.
Conomitra polita n. sp., Vaughan, 5722.
staminea Conrad, Dall, 1259.
tracyi n. sp., Harris, 2316.
Conopterium effusum Winchell, Keyes, 3061.
Conoryctes Cope, Wortman, 6192.
Conostichus broadheadi Lx., White, 6050.
prolifer Lx., White, 6050.
Conotrcta Walcott, Hall and Clarke, 2260.
Conradella n. gen., Ulrich and Scofield, 5541.
bellula n. sp., Ulrich and Scofield, 5541.
dyeri Hall, Ulrich and Scofield, 5541.
var. cellulosa n. var., Ulrich and Scofield, 5541.
elegans Miller, Ulrich and Scofield, 5541.
fimbriata n. sp., Ulrich and Scofield, 5541.
grandis n. sp., Ulrich and Scofield, 5541.
imbricata Meek and Worthen, Ulrich and Scofield, 5541.
obliqua n. sp., Ulrich and Scofield, 5541.
similis n. sp., Ulrich and Scofield, 5541.
triangularis n. sp., Ulrich and Scofield, 5541.
Constellaria Dana, Ulrich, 5537.
varia n. sp., Ulrich, 5537.
Conularia Miller, Grabau, 2086.
amazonica n. sp., Clarke, 976.
asperata Billings, Whiteaves, 6087.
bilineata n. sp., Foerste, 1835.
blairi n. sp., Miller and Gurley, 3997a.
byblis White, Weller, 6006.
crustula White, Keyes, 3002.
cf. desiderata Hall, Clarke, 971.
gracilis Hall, Ruedemann, 4687.
gracilis Hall, Ruedemann, 4682, 4683.
gratiosa n. sp., Miller and Gurley, 3997a.
greenei n. sp., Miller and Gurley, 4002.
intertexta n. sp., Miller, 3995.
missouriensis? Swallow, Keyes, 3062.
niagarensis, Foerste, 1835.
roeperi n. sp., Miller and Gurley, 4002.
sampsoni n. sp., Miller, 3992.
sedaliensis n. sp., Miller and Gurley, 4002.
spergensis n. sp., Miller and Gurley, 3997a.

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Genera and species described—Continued.

- Conularia undulata* Conrad, Grabau, 2086.
Conularida n. ord., Miller and Gurley, 4002.
Conus Linnaeus, Dall, 1269.
 adversarius Conrad, Dall, 1259.
 chipolanus n. sp., Dall, 1269.
 cruzianus n. sp., Dall, 1259.
 demiurgus n. sp., Dall, 1269.
 isomitratus n. sp., Dall, 1269.
 var. *suleculus* Dall, Dall, 1269.
 pealii Green, Dall, 1259.
 proteus Hwass, Dall, 1259.
 puncticulatus, Harris, 2309.
 pygmaeus Reeve, Dall, 1259.
 subsaureus, Whitfield, 6097.
 sp. indet., Dall, 1259.
Cooperella Cpr. (em), Dall, 1281.
 carpenteri n. sp., Dall, 1281.
Coprolites, Clark, 906.
Coptosoma mortoni (de Loriol), Clark, 892.
 speciosum Clark, Clark, 892.
Corallidomus n. gen., Whitfield, 6099.
 concentricus n. sp., Whitfield, 6099.
Coralliophaga bryani n. sp., Clark, 904, 906.
 prima n. sp., Harris, 2313.
 (*Oryetomya*) *elaibornensis* Dall, Dall, 1277.
Coralliophila abbreviata Lamarek, Dall, 1259.
 lepidota n. sp., Dall, 1259.
 magna n. sp., Dall, 1259.
Corax fulcatus, Williston, 6259.
 curvata n. sp., Williston, 6259.
Corbicula (Brururiere) Lamarek, Dall, 1272.
 alabamensis var., Harris, 2313.
 cornelliana n. sp., Harris, 2313.
 durkei Meek, White, 6036.
Corbula alabamensis var., Harris, 2315.
 aldrichi Meyer, Clark, 906.
 aldrichi, Harris, 2313.
 aldrichi var. *smithvillensis* n. var., Harris, 2307.
 concha n. sp., Aldrich, 73.
 concha, Harris, 2313.
 crassicostata n. sp., Cragin, 1118.
 crassicostata, Stanton, 5197.
 euneata, Say, 4813.
 elevata, Whitfield, 6101.
 engelmanni Meek, White, 6036.
 filosa n. sp., Stanton, 5199.
 galvestonensis n. sp., Harris, 2309.
 hicksii n. sp., White, C. A., 6035.
 inaequale, Say, 4813.
 iodonea, Whitfield, 6101.
 kanabensis n. sp., Stanton, 5191.
 nasuta Conrad, Clark, 906.
 nematophora Meek, Stanton, 5191.
 oniscus Conrad, Clark, 906.
 (?) *persulcata* n. sp., Stanton, 5199.
 pyriformis Meek, White, 6036.
 swiftiana (?), Harris, 2309.
 subcompressa, Harris, 2310.
 subcontracta n. sp., Whitfield, 6101.
 subtrigonalis M. and H., Stanton, 5191.
 triangulata n. sp., Cooper, 1071.
 (Aloidis) *caloosa* n. sp., Dall, 1272.
 elevata Conrad, Dall, 1272.

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Genera and species described—Continued.

- Corbula*—Continued.
 (Aloidis) *engonata* var. *burnsii* Dall, Dall, 1272.
 fossata Aldrich, Dall, 1272.
 var.? *extenuata* Dall, Dall, 1272.
 heterogenea Guppy, Dall, 1272.
 milium n. sp., Dall, 1272.
 oniscus Conrad, Dall, 1272.
 perdubia de Gregorio, Dall, 1272.
 texana Gabb, Dall, 1272.
 vieta Guppy, Dall, 1272.
 wailesiana Harris, Dall, 1272.
 (Bothrocorbula) *radiatula* n. sp., Dall, 1272.
 synarmostes n. sp., Dall, 1272.
 viminea Guppy, Dall, 1272.
 willecoxii n. sp., Dall, 1272.
 (Corbulamella) *Meek and Worthen?*, Dall, 1272.
 (Cuneocorbula) *alabamensis* Lea, Dall, 1272.
 aldrichi Meyer, Dall, 1272.
 barrattiana C. B. Adams, Dall, 1272.
 compressa Lea, Dall, 1272.
 contracta Say, Dall, 1272.
 euneata Say, Dall, 1272.
 densata Conrad, Dall, 1272.
 inequalis Say, Dall, 1272.
 sarda n. sp., Dall, 1272.
 seminella n. sp., Dall, 1272.
 sericea n. sp., Dall, 1272.
 sphenia n. sp., Dall, 1272.
 swiftiana C. B. Adams, Dall, 1272.
 whitfieldi n. sp., Dall, 1272.
 (Potamoinea) *priscopsis* n. sp., Harris 2309.
 sp., Logan, 3557.
Corbulomya taushii n. sp., White, 6036.
Coreculum Bolten, Dall, 1281.
Cordaicarpus lineatus Lx., White, 6040.
Cordaites Unger, White, 6050.
 angustifolius Dn., White, 6052.
 communis Lx., White, 6040, 6050.
 diversifolius Lx.?, White, 6050.
 grandifolius Lx., White, 6052.
 robbii Dn., White, 6052.
Cordania, Clarke, 938.
 becraftensis n. sp., Clarke, 971.
 hudsonica n. sp., Clarke, 971.
Cordianthus dichotomus Lx., White, 6050.
 ovatus Lx., White, 6050.
Cordiaera gracillima n. sp., Cooper, 1071.
Cordylorhinus Angl., Wachsmuth and Springer, 5765a.
 plumosus (Hall), Wachsmuth and Springer, 5765a.
 ramulosus (Hall), Wachsmuth and Springer, 5765a.
Cornophyllum vetustum n. sp., Newberry 4080.
Cornulina armigera, Harris, 2316.
 armigera Aldrich, 74.
Cornulites Schlotheim, Grabau, 208.
 cingulatus Hall, Clarke, 971.
 distans, Foerste, 1835.
 hamiltoniae n. sp., Grabau, 2086.

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Genera and species described—Continued.

- Cornus impressa* Lx., Knowlton, 3264.
newberryi Hollick, Knowlton, 3255.
newberryi Hollick, Newberry, 4083.
obesus n. sp., Dawson, 1436.
platyphylloides n. sp., Lesquereux, 3470.
præcox n. sp., Lesquereux, 3470.
rhamnifolia O. Web., Knowlton, 3264.
smithvillensis n. sp., Harris, 2307.
studerii Heer (?), Hollick, 2708.
studerii? Heer, Knowlton, 3264.
wrightii n. sp., Knowlton, 3255.
Coroniceras claytoni, Hyatt, 2818.
Coronura aspeetans Conrad sp., Clarke, 935.
Corvus annectens n. gen., Shufeldt, 4960.
Corylus macquarrii (Forbes) Heer, Newberry, 4083.
orbiculata Newb., Newberry, 4083.
rostrata fossilis Newb., Newberry, 4083.
Corymbites athiops Herbst, Scudder, 4900.
velatus, Scudder, 4900.
Corymboerinus Angelin, Weller, 6002.
chicagoensis n. sp., Weller, 6002.
niagarensis n. sp., Weller, 6002.
Corynexochus Angelin, Matthew, 3788.
roemingeri, Matt. n. sp., Matthew, 3788.
Coryphodon, Earle, 58a.
Coryphodon, Marsh, 3680.
Coryphodon, Osborn and Wortman, 4180.
anax Cope, Earle, 1589.
cinctus Cope, Osborn, 4205.
curviceristis Cope, Earle, 1589.
curviceristis Cope, Osborn, 4205.
euspidatus Cope, Earle, 1589.
euspidatus Cope, Osborn, 4205.
elephantus Cope, Earle, 1589.
elephantopus Cope, Osborn, 4205.
hamatus Marsh, Earle, 1589.
hamatus Marsh, Osborn, 4205.
latidens Cope, Osborn, 4205.
lobatus Cope, Osborn, 4205.
marginatus Cope, Osborn, 4205.
obliquus Cope, Earle, 1589.
radians, Cope, Earle, 1589.
radians, Osborn, 4203, 4205, 4210.
repandus Cope, Osborn, 4205.
singularis n. sp., Osborn, 4205.
testis Cope, Earle, 1589.
testis, Osborn, 4205.
ventanus n. sp., Osborn, 4205.
wortmani, n. sp., Osborn, 4205.
(Metalophodon) armatus, Osborn, 4205.
Corylus americana fossils Newb., Newberry, 4083.
macquarrii (Forbes) Heer, Knowlton, 3255.
Coscinella, Simpson, 4983.
Coscinium, Simpson, 4983.
Coscinotrypa, Simpson, 4983.
Cosoryx agilis n. sp., Douglass, 6540.
Cossonus gabbii, Scudder, 4890.
rutus, Scudder, 4890.
Crangopsis vermiciformis (Meek), Ortman, 4155.
Crania Retzius, Grabau, 2086.
agaricina n. sp., Hall and Clarke, 2260, 2268.

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Genera and species described—Continued.

- Crania albersi* n. sp., Miller and Faber, 3997.
cf. bella Billings, Clarke, 971.
blairi n. sp., Miller, 3995.
carbonaria, Whitfield, 6099.
chesterensis n. sp., Miller and Gurley, 4003.
crenistriata Hall, Grabau, 2086.
(?) dubia, Foerste, 1835.
favineola n. sp., Hall and Clarke, 2260, 2268.
granosa n. sp., Hall and Clarke, 2260, 2268.
granulosa N. H. Winchell, Winchell and Schuchert, 6319.
greenii n. sp., Miller, 3995.
lævis n. sp., Keyes, 3062.
lævis Keyes, Girty, 2038.
pulchella n. sp., Hall and Clarke, 2260, 2268.
retzius, Hall and Clarke, 2268.
retzius, Winchell and Schuchert, 6319.
setigera Hall, Winchell and Schuchert, 6319.
trentonensis Hall, Winchell and Schuchert, 6319.
Craniella Oehlert, Grabau, 2086.
Craniella (Ehlert), Hall and Clarke, 2260.
Craniella (Ehlert), Winchell and Schuchert, 6319.
(?) clintonensis, Foerste, 1835.
hamiltoniæ Hall, Grabau, 2086.
ulrichi n. sp., Hall and Clarke, 2260, 2268.
? ulrichi Hall, Winchell and Schuchert, 6319.
Cranoceras, Hyatt, 2819.
Craspedophyllum Dybowsky, Grabau, 2086.
archiaci Billings, Grabau, 2086.
subeospitosum (Nicholson), Grabau, 2086.
Crassatella aliformis Conrad, Clark, 906.
antestriata Gabb, Harris, 2307.
aquiana Clark, Clark, 904, 906.
decliva, Aldrich, 74.
excavata Stanton, Herriek and Johnson, 2465.
excavata n. sp., Stanton, 5191.
gabbii, Harris, 2310.
gibbesi T. and H. var., Harris, 2309.
halei, Harris, 2313.
lomana n. sp., Cooper, 1071.
melina, Whitfield, 6101.
sepulcollis n. sp., Harris, 2210.
trapuara n. sp., Harris, 2307.
texalta n. sp., Harris, 2307.
texana Heilp., Harris, 2307.
tumidula, Harris, 2313.
undulata, Say, 4813.
uniodea, n. sp., Stanton, 5198.
vadoss Mort., Harris, 2315.
sp., Harris, 2315.
Crassatellites (Crassinella) *guppyi* n. sp., Guppy and Dall, 2214.
Cratægus aceroides n. sp., Lesquereux, 3470.
flavescens Newb., Newberry, 4083.
læcci n. sp., Lesquereux, 3470.
laurenciana n. sp., Lesquereux, 3470.

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Genera and species described—Continued.

- Crotagus tenuinervis* n. sp., Lesquereux, 3470.
Cratoparis arecessitus, Scudder, 4890.
Creceoides osbornii Shufeldt, n. gen. et. sp.,
 Cope, 1084, 1087.
Credneria ? *pachyphylla* n. sp., Knowlton,
 3255.
Cremastorhynchus stabilis, Scudder, 4890.
Crenella, Brown, Dall, 1272.
 divaricata d'Orbigny, Dall, 1272.
 duplinensis n. sp., Dall, 1272.
 minusecula n. sp., Dall, 1272.
 santana n. sp., Cooper, 1071.
Crenipeecten lavis n. sp., Weller, 5994.
 winchelli (Meek) ?, Weller, 5994.
Crepicephalus Owen, Walcott, 5816.
 texanus, Shumard sp., Walcott, 5816.
Crepidula fornicata (?), Whitfield, 6101.
 plana (?), Whitfield, 6101.
Crepipora, Simpson, 4983.
Crepipora Ulrich, Ulrich, 5537.
 perampla n. sp., Ulrich, 5537.
 spatiosa n. sp., Ulrich, 5537.
 subaequata n. sp., Ulrich, 5537.
Creseis sp., Aldrich, 73.
 corrugata n. sp., Matthew, 3746.
 minuta, n. sp., Matthew, 3746.
Cricoptus, Williston, 6247.
Cricotus, Case, 767.
Cricotus Williston, 6235.
 gibsoni Cope, Case, 773.
 heteroelitus, Case, 773.
 sp., Case, 773.
Crioceras annulatus, Shum., Cragin, 1115.
Crisinella, Simpson, 4983.
Cristellaria acutaureicularis (Fichtel and
 Moll), Baggs, 150.
 arcuata d'Orbigny, Chapman, 870.
 articulata (Reuss), Baggs, 150.
 cassis (Fichtel and Moll), Baggs, 150.
 cassis (Fichtel and Moll), Chapman, 870.
 crepidula (Fichtel and Moll), Baggs, 150.
 cretacea Baggs, Baggs, 150.
 cultrata, Baggs, 148, 150.
 gibba d'Orbigny, Baggs, 150.
 gibba d'Orbigny, Chapman, 870.
 italica (Defrance), Baggs, 150.
 mamilligera Karrer, Baggs, 144, 150.
 megapolitana Reuss, Baggs, 150.
 miocenica n. sp., Chapman, 870.
 projecta n. sp., Baggs, 144, 150.
 radiata Baggs, 148.
 rotulata (Lamarck), Baggs, 148, 150.
 rotulata (Lamarck), Chapman, 870.
 secans Reuss, Baggs, 150.
 trachyomphala (Reuss), Baggs, 150.
 triangularis d'Orbigny, Baggs, 150.
 wetherellii, Baggs, 148.
 wetherellii (Jones), Baggs, 150.
Crocota inexpecta n. sp., Cope, 1099.
Cromyocerinus kansasensis (Miller and Gur-
 ley), Keyes, 3061.
Crotalocerinus Austin, Weller, 6002.
 americanus n. sp., Weller, 6002.
Crucibulum Schumacher, Dall, 1259.
 costatum Whitfield, 6101.

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Genera and species described—Continued.

- Cruratula* Bittner, Hall and Clarke, 2264.
Cryphaeus Green, Grabau, 2086.
 boothi Green, Grabau, 2086.
 var. *calliteles* Green, Grabau, 2086.
Cryptacanthia White and St. John, Hall and
 Clarke, 2261a.
Cryptoblastus *kirkwoodensis* (Shumard),
 Keyes, 3061.
 melo (Owen and Shumard), Keyes, 3061.
Cryptocarya colignitica n. sp., Hollick, 2708.
Cryptocephalites n. gen., Scudder, 4896.
 punctatus n. sp., Scudder, 4896.
Cryptodictya Hall, Hall and Clarke, 2269,
 2270.
 alleni Hall, Hall and Clarke, 2269, 2270.
Cryptodiscus Hall, Weller, 5984.
 bilobus n. sp., Weller, 5983.
 corrugatus n. sp., Weller, 5983.
 digitatus n. sp., Weller, 5983.
 hydei n. sp., Weller, 5983.
Cryptohypnus ? *terrestris*, Scudder, 4896.
Cryptonella Hall, Grabau, 2086.
Cryptonella Hall, Hall and Clarke, 2261a, 2264
 (?) *fausta*, n. sp., Clarke, 971.
 ovalis n. sp., Miller, 3992.
 planirostris Hall, Grabau, 2086.
 rectirostris Hall, Grabau, 2086.
 subelliptica, Hall and Clarke, 2268.
 (*Euncella* Hall), Hall and Clarke, 2264.
 n. sp., Clarke, 971.
Cryptopora Jeffreys, Hall and Clarke, 2264.
 n. sp., Clarke, 971.
Cryptorhynchus annosus, Scudder, 4890.
 durus, Scudder, 4890.
 kerri, Scudder, 4890.
 profusus, Scudder, 4890.
Cryptozoon boreale, Dawson, 1448.
 minnesotense, Chaney, 865.
 occidentale n. sp., Dawson, 1446.
 ? *occidentale* Dawson, Walcott, 5815.
Ctenacanthus amblyxiphias n. sp., Cope, 1076.
 acutus n. sp., Eastman, 1598.
 costellatus, Clappole, 996.
 depressus n. sp., Newberry, 4082.
 gurleyi n. sp., Newberry, 4082.
 hybodontoides, Clappole, 996.
 xiphias, Eastman, 1598.
Ctenepeton alveolatum n. gen. et sp., Cope,
 1103.
 tenuicorne Cope, Cope, 1103.
Ctenichnites ingens ? Matthew, 3789.
Ctenis auriculata Fontaine, Ward, 5857.
 grandifolia Fontaine, Ward, 5857.
 orovillensis Fontaine, Ward, 5857.
Ctenobolbina Ulrich, Grabau, 2080.
Ctenobolbina Ulrich, Ulrich, 5540.
 armata n. sp., Ulrich, 5543.
 cavimarginata n. sp., Ulrich, 5543.
 crassa Ulrich, Ulrich, 5540.
 fulerata n. sp., Ulrich, 5540.
 granosa n. sp., Ulrich, 5543.
 insolens n. sp., Ulrich, 5543.
 loculata n. sp., Ulrich, 5543.
 minima Ulrich, Grabau, 2086.
 obliqua n. sp., Ulrich, 5543.

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Genera and species described—Continued.

- Ctenobolbina* spiculosa n. sp., Ulrich, 5543.
 subcrassa n. sp., Ulrich, 5543.
Ctenocephalus (Hartella) matthewi, Beecher, 366.
Ctenodonta Salter, Ulrich, 5539.
 albertina n. sp., Ulrich, 5539.
 alta Hall, Ulrich, 5539.
 calvini n. sp., Ulrich, 5539.
 carinata n. sp., Ulrich, 5539.
 cingulata, Ulrich, 5535.
 compressa Ulrich, Ulrich, 5539.
 fecunda Hall, Ulrich, 5539.
 filistriata n. sp., Ulrich, 5539.
 gibberula Salter, Ulrich, 5539.
 hamburgensis Walcott, Ulrich, 5539.
 intermedia Ulrich, Ulrich, 5539.
 logani Salter, Ulrich, 5539.
 longa Ulrich, Ulrich, 5539.
 madisonensis n. sp., Ulrich, 5539.
 medialis n. sp., Ulrich, 5539.
 nasuta Hall, Ulrich, 5539.
 nitida Ulrich, Ulrich, 5539.
 obliqua Hall, Ulrich, 5539.
 oviformis n. sp., Ulrich, 5539.
 perminuta n. sp., Ulrich, 5535.
 planodorsata Ulrich, Ulrich, 5539.
 recurva Ulrich, Ulrich, 5539.
 retrorsa n. sp., Ulrich, 5535.
 scotfieldi n. sp., Ulrich, 5539.
 similis Ulrich, Ulrich, 5539.
 simulatrix n. sp., Ulrich, 5539.
 socialis n. sp., Ulrich, 5539.
 subnasuta n. sp., Ulrich, 5539.
 (Nucula) sectoralis, Lane, 3400.
Ctenodus fleisheri n. sp., Newberry, 4082.
 (Sagenodus) angustus n. sp., Newberry, 4082.
Ctenophyllum angustifolium Fontaine, Ward, 5857.
 braunianum abbreviatum (Friedrich Braun) Schimper, Ward, 5857.
 braunianum angustum (Friedrich Braun) Schimper, Ward, 5857.
 densifolium Fontaine, Ward, 5857.
 grandifolium storrsei Fontaine, Ward, 5857.
 grandifolium Fontaine, Ward, 5857.
 lineare (Emmons) Fontaine, Ward, 5857.
 robustum (Emmons) Fontaine, Ward, 5857.
 wannerianum Fontaine, n. sp., Ward, 5857.
 wardii Fontaine, Ward, 5857.
Ctenopyge acadica n. sp., Matthew, 3751.
Cucullæ Lamarek, Dall, 1272.
Cucullæa bowersiana n. sp., Cooper, 1071.
 comanchensis n. sp., Hill, 2539.
 gigantea Conrad, Clark, 906.
 gigantea var., Harris, 2313.
 gracilis n. sp., Cragin, 1115.
 gratioli Hill, Cragin, 1115.
 haguei Meek, Stanton, 5206.
 macrodonta, Harris, 2310.
 matthewsoni Gabb, Stanton, 5198.
 ponderosa n. sp., Whiteaves, 6095a.
 saffordi, Harris, 2310.
 terminalis Con., Cragin, 1115.
 tippana Con., Cragin, 1115.

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- Cucullæa* transpecosensis n. sp., Cragin, 1115.
 (Trigonarca) catorcensis n. sp., Aguilera, 57.
Cultellus Schumacher, Dall, 1281.
 (Ensiculus) Conradi Cossmann, Hall, 1281.
Cumingia Sowerby, Dall, 1281.
 californica Conrad, Dall, 1281.
 coarctata Sowerby, Dall, 1281.
 lamellosa Sowerby, Dall, 1281.
 medialis Conrad, Dall, 1281.
 tellinoides Conrad, Dall, 1281.
Cuneamya Hall and Whitfield, Ulrich, 5539.
 oblonga n. sp., Ulrich, 5539.
 sulcodorsata n. sp., Ulrich, 5534.
 truncatula n. sp., Ulrich, 5539.
Cunninghamites elegans (Corda.) Endl., Hollick, 2698.
 elegans (Corda.) Endl., Newberry, 4080.
 squamosus Heer, Hollick, 2698.
 ? sp., Knowlton, 3264.
Cuspidaria prima, Harris, 2313.
Cyamium Philippi, Dall, 1281.
Cyamodus, Case, 768.
Cyathaxonia bordeni, n. sp., Greene, 2162d.
 compressa, n. sp., Greene, 2162a.
 parva, n. sp., Greene, 2162d.
 winchelli n. sp., Rowley, 4677a.
Cyathocrinus Miller, Weller, 6002.
 andersoni n. sp., Miller and Gurley, 3997a.
 benedicti n. sp., Miller, 3992.
 blairi, Miller and Gurley, 3999, 4000.
 brittsi n. sp., Miller and Gurley, 3998.
 chouteauensis n. sp., Miller and Gurley, 3998, 4000.
 cora Hall, Weller, 6002.
 enormis Meek and Worthen, Keyes, 3061.
 faberi n. sp., Miller and Gurley, 4001.
 gurleyi n. sp., Miller, 3992, 3995.
 iowensis Owen and Shumard, Keyes, 3061.
 labyrinthicus n. sp., Miller, 3992.
 macadamsi n. sp., Miller and Gurley, 3998.
 maxvillensis n. sp., Whitfield, 6099.
 opimus n. sp., Miller and Gurley, 3991.
 signatus n. sp., Miller and Gurley, 3997a.
 somersi Whitfield, 6099.
 tumidulus n. sp., Miller and Gurley, 3997a.
 turbinatus n. sp., Weller, 6002.
 vanhornei Miller, Weller, 6002.
 viminalis, Whitfield, 6098.
 waldronensis Miller and Dyer, Miller and Gurley, 3999.
Cyathophycus quebecense Dawson, Dawson, 1452.
 quebecensis Dawson, Rauff, 4548.
 reticulatus Walcott, Rauff, 4548.
 siluriana n. sp., James, 2881.
Cyathophyllum Goldfuss, Grabau, 2086.
 anticostiense Billings, Lambe, 3375.
 articulatum Wahlenberg, Lambe, 3375.
 cæspitosum Goldfuss (?), Girty, 2038.
 conatum Hall, Grabau, 2086.
 cornicula Rominger, Keyes, 3061.
 dawsoni n. sp., Lambe, 3375.
 glabrum n. sp., Keyes, 3061.
 petraiolides n. sp., Whiteaves, 6074.

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- Cyathophyllum* *spencei* n. sp., Lambe, 3375.
waskasense n. sp., Whiteaves, 6071.
Cybele *winchelli* n. sp., Clarke, 952.
Cycadella n. gen., Ward, 5859.
beecheriana n. sp., Ward, 5857, 5859.
carbonensis n. sp., Ward, 5857, 5859.
cirrata n. sp., Ward, 5857, 5859.
compressa n. sp., Ward, 5857, 5859.
concinna n. sp., Ward, 5857, 5859.
contracta n. sp., Ward, 5857, 5859.
erapidaria n. sp., Ward, 5857, 5859.
exogena n. sp., Ward, 5857, 5859.
ferruginea n. sp., Ward, 5857, 5859.
gelida n. sp., Ward, 5857, 5859.
gravis n. sp., Ward, 5857, 5859.
jejuna n. sp., Ward, 5857, 5859.
jurassica n. sp., Ward, 5857, 5859.
knightii n. sp., Ward, 5857, 5859.
knowltoniana n. sp., Ward, 5857, 5859.
nodosa n. sp., Ward, 5857, 5859.
ramentosa n. sp., Ward, 5857, 5859.
reedii n. sp., Ward, 5857, 5859.
verrucosa n. sp., Ward, 5857, 5859.
wyomingensis n. sp., Ward, 5857, 5859.
Cyadeoidea Buckland, Ward, 5856.
aspera n. sp., Ward, 5855, 5856.
colei n. sp., Ward, 5855, 5856.
colossalis n. sp., Ward, 5855, 5856.
cicatricula n. sp., Ward, 5855, 5856.
dacotensis (McBride) Ward emend, Ward, 5855, 5856.
emmonsi (Fontaine) Ward, Ward, 5857.
excelsa n. sp., Ward, 5855, 5856.
formosa n. sp., Ward, 5855, 5856.
fureata n. sp., Ward, 5855, 5856.
heli chorea n. sp., Ward, 5858.
ingens n. sp., Ward, 5855, 5856.
ingens Ward, Wieland, 6131, 6132.
insolita n. sp., Ward, 5855, 5856.
jennyana n. sp., Ward, L. F., 5847, 5855, 5856.
marshiana n. sp., Ward, 5855, 5856.
mcbridei n. sp., Ward, 5855, 5856.
minima n. sp., Ward, 5858.
minnekahtensis n. sp., Ward, 5855, 5856.
nana n. sp., Ward, 5855, 5856.
nigra Ward n. sp., Ward, 5857.
occidentalis n. sp., Ward, 5855, 5856.
paynei n. sp., Ward, 5855, 5856.
protea n. sp., Ward, 5858.
pulcherrima n. sp., Ward, 5855, 5856.
reticulata n. sp., Ward, 5858.
rhombica n. sp., Ward, 5858.
stillwelli n. sp., Ward, 5855, 5856.
superba n. sp., Ward, 5858.
turrita n. sp., Ward, 5855, 5856.
utopiensis n. sp., Ward, 5858.
wellsi n. sp., Ward, 5855, 5856.
wielandi n. sp., Ward, 5856.
Cyadeomyelon *yorkense* Fontaine n. sp., Ward, 5857.
Cyadeospermum *columnare* n. sp., *Lesquereux, 3470.
lineatum n. sp., Lesquereux, 3470.
rotundatum Font., Fontaine, 1846, 1850.

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Genera and species described—Continued.

- Cycadeospermum* *wanneri* Fontaine n. sp., Ward, 5857.
Cycadinocarpus *circularis* n. sp., Newberry, 4080.
Cycadites *acutus* Emmons, Ward, 5857.
pungens n. sp., Lesquereux, 3470.
tenuinervis Fontaine, Ward, 5857.
Cyclamina *placenta*, Bagg, 148.
Cyclieoerinus n. gen., Miller, 3995.
canaliculatus n. sp., Miller, 3995.
Cyclocadia Lindley and Hutton, White, 6050.
brittsii n. sp., White, 6050.
Cyclocypis *californica* n. sp., Chapman, 869.
Cyclostoides *cineinnatiensis* n. sp., Miller and Faber, 3994.
illinoisensis n. sp., Miller and Gurley, 3997d.
Cyclognathus *rotundifrons* Matt., Matthew, 3746.
Cycloilitites, Hyatt, 2819.
americanus, Hyatt, 2819.
Cyclononcha *mediocardinalis*, Ulrich, 5535.
ovata n. sp., Ulrich, 5535.
Cyclonema Hall, Ulrich and Scofield, 5541.
bilix, Foerste, 1835.
bilix (Conrad), Keyes, 3062.
bilix Conrad, Ulrich and Scofield, 5541.
gracile n. sp., Ulrich and Scofield, 5541.
humerosum n. sp., Ulrich and Scofield, 5541.
inflatum n. sp., Ulrich and Scofield, 5541.
mediale n. sp., Ulrich and Scofield, 5541.
pulchellum n. sp., Miller and Gurley, 4002.
pyramidatum James, Ulrich and Scofield, 5541.
similans n. sp., Ulrich and Scofield, 5541.
transversum n. sp., Ulrich and Scofield, 5541.
varicosum Hall, Ulrich and Scofield, 5541.
 (?) *Holopea* *limatum* n. sp., Ulrich and Scofield, 5541.
Cyclopora, Simpson, 4983.
Cycloporina n. gen., Simpson, 4980, 4983.
Cyclops *tenuicornis*, Beecher, 366.
Cyclorhina Hall, Hall and Clarke, 2261a, 2264.
Cyclospira n. gen., Hall and Clarke, 2261, 2264.
Cyclospira, Winchell and Schuchert, 6319.
bisulcata Emmons sp.? Winchell and Schuchert, 6319.
 (?) *sparsi-plica* n. sp., Foerste, 1835.
 (Protozyga) Hall, Hall and Clarke, 2264.
Cyclosporgia *disens* n. gen. et sp., Miller, 3992.
Cyclostrema *aldrichi* n. sp., Harris, 2316.
chipolanum n. sp., Dall, 1259.
Cylicna *aldrichi*, Aldrich, 74.
aldrichi Lang., Harris, 2316.
meyeri n. sp., Aldrich, 73.
meyeri, Harris, 2310.
recta, Whitfield, 6097.
sylværupus n. sp., Harris, 2316.
venusta Clark, Clark, 904, 906.
 sp., Harris, 2310.
Cylicnella *atysopsis* n. sp., Harris, 2307.
bidentata var. *galvestonensis* n. var., Harris, 2309.

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Genera and species described—Continued.

- Cylicoerinus (?) indianensis n. sp., Miller and Gurley, 3997d.
 Cylindrella floridana n. sp., Dall, 1259.
 Cyllindrites formosus n. sp., Cragin, 1115.
 Cyllindroecelia, James, 2881.
 Cyllindroecelia Ulrich, Winchell and Schuchert, 6318.
 covingtonensis James, 2881.
 minnesotensis Ulrich, Winchell and Schuchert, 6318.
 Cylindrophyllum n. gen., Simpson, 4984.
 Cyllene bellana n. sp., Harris, 2311, 2316.
 Cymatoceras elegans (?), Hyatt, 2819.
 deslonchampsianum, Hyatt, 2819.
 radiatum, Hyatt, 2819.
 simplex (?), Hyatt, 2819.
 Cymatoneta attenuata n. sp., Ulrich, 5535.
 constricta n. sp., Ulrich, 5535.
 productifrons, n. sp., Ulrich, 5535.
 recta n. sp., Ulrich, 5535.
 semistriata n. sp., Ulrich, 5535.
 typicalis n. sp., Ulrich, 5535.
 Cymba (Eucymba) Dall, Dall, 1259.
 Cymindis extorpesens n. sp., Scudder, 4900.
 Cynocereus, Williston, 6245.
 incisus, Williston, 6245.
 Cynodontia, Case, 768.
 Cynognathus, Case, 768.
 Cyperacites giganteus n. sp., Knowlton, 3255.
 (?) sp., Knowlton, 3255, 3264.
 Cyperites, Dawson, 1434.
 paucinervis Heer, Dawson, 1448.
 sp., Hollick, 2708.
 Cyphaspis Burmeister, Grabau, 2086.
 bellula n. sp., Whiteaves, 6074.
 clintonensis, Foerste, 1835.
 galenensis n. sp., Clarke, 952.
 gardeauensis Shumard, Keyes, 3061.
 minusecula Hall (sp.), Clarke, 971.
 ornata Hall, Grabau, 2086.
 Cyphocrinus n. gen., Miller, 3995.
 Cyphocrinus S. A. Miller, Weller, 6002.
 chicagoensis n. sp., Weller, 6002.
 gorbyi n. sp., Miller, 3995.
 Cyphornis magnus n. gen. et sp., Cope, 1094.
 Cyphosoma volanum n. sp., Cragin, 1115.
 Cypraea dalli n. sp., Aldrich, 71.
 kennedyi n. sp., Harris, 2307.
 heilprinii n. sp., Dall, 1259.
 pinguis Conrad, Dall, 1259.
 pinguis Con., Harris, 2311.
 sabuloviridis n. sp., Whitfield, 6097.
 smithi Ald., Harris, 2311, 2316.
 suciensis nom. prov., Whiteaves, 6085.
 wilcoxi n. sp., Dall, 1259.
 (Aricia) mortoni, Whitfield, 6097.
 (Siphocyprea) Heilprin, Dall, 1259.
 problematica Heilprin, Dall, 1259.
 sp., Harris, 2310.
 Cypria subangulata n. sp., Chapman, 869.
 Cypricardella Hall, Grabau, 2086.
 bellistriata (Conrad), Grabau, 2086.
 eximia n. sp., Miller and Gurley, 4002.
 gorbyi n. sp., Miller, 3992.
 harti n. sp., Clarke, 976.

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Genera and species described—Continued.

- Cypricardella pohli n. sp., Clarke, 976.
 producta n. sp., Whiteaves, 6074.
 Cypricardia? haguei n. sp., Stanton, 5206.
 Cypricardinia Hall?, Grabau, 2086.
 indenta Conrad, Clarke, 971.
 indenta (Conrad), Grabau, 2086.
 undulostriata, Foerste, 1835.
 sulcifera (Win.), Weller, 6006.
 Cypricardites caswelli, Foerste, 1835.
 cingulata n. sp., Ulrich, 5534.
 germanus n. sp. or var., Ulrich, 5534.
 glabellus n. sp., Ulrich, 5534.
 haynianus?, Safford, Ulrich, 5534.
 modestus n. sp., Ulrich, 5531.
 nanus n. sp., Ulrich, 5534.
 niota, Whitfield, 6102.
 obtusifrons n. sp., Ulrich, 5534.
 oviformis n. sp., Ulrich, 5531.
 rectirostris, Whitfield, 6102.
 rotundatus, Whitfield, 6102.
 sardesoni n. sp., Ulrich, 5534.
 tenellus n. sp., Ulrich, 5534.
 terminalis n. sp., Ulrich, 5534.
 Cypridea texana n. sp., Hill, 2539.
 tuberculata var. wyomingensis nov., Jones, 2934.
 Cypridopsis pliocaenica n. sp., Chapman, 869.
 Cyprimeria crassa Mk., Cragin, 1115.
 excavata (Mort.), Cragin, 1115.
 gigantea n. sp., Cragin, 1115.
 lens Whiteaves, Whiteaves, 6085.
 texana, Roem., Cragin, 1115.
 Cyprina? cinnabarensis n. sp., Stanton, 5206.
 dalli Ald., Harris, 2315.
 (?) iddingsi n. sp., Stanton, 5206.
 mediale Con., Cragin, 1115.
 occidentalis Whiteaves, Stanton, 5199.
 procera n. sp., Chapman, 869.
 roemeri n. sp., Cragin, 1115.
 texana Con., Cragin, 1115.
 (?Roudairia) streeruwitzi n. sp., Cragin, 1115.
 Cyprinidae, Cope, 1086.
 Cypris dawsoni n. sp., Jones, T. R., 2935.
 ovum, Beecher, 366.
 purbeckensis, Jones, 2934.
 Cyrena aequilateralis Meek?, Stanton, 5191.
 inflexa Meek, Stanton, 5191.
 securis Meek, Herrick and Johnson, 2465.
 (Veloritina) securis Meek, Stanton, 5191.
 sp., Herrick and Johnson, 2465.
 Cyrella subgen., A. Adams, Dall, 1272.
 Cyrtia Dalman, Hall and Clarke, 2261.
 burlingtonensis n. sp., Rowley, 4673.
 radians n. sp., Hall and Clarke, 2261a, 2263, 2268.
 Cyrtina Davidson, Grabau, 2086.
 Cyrtina Davidson, Hall and Clarke, 2264.
 acutirostris (Shumard), Keyes, 3062.
 hamiltonensis Hall, Grabau, 2086.
 var. recta Hall, Grabau, 2086.
 lachrymosa n. sp., Hall and Clarke, 2261a, 2263, 2268.
 neogenes, Hall and Clarke, 2268.
 umbonata, var. alpenensis n. var., Hall and Clarke, 2261a, 2263, 2268.

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Genera and species described—Continued.

- Cyrtina varia* n. sp., Clarke, 971.
Cyrtocalpis, Matthew, G. F., 3760.
Cyrtoceras Goldfuss 1832, Clarke, 953.
 billingsi Salter 1859, Clarke, 953.
 canurum Hall 1817, Clarke, 953.
 corniculum Hall 1862, Clarke, 953.
 clintonensis n. sp., Foerste, 1835.
 cretaceum, Whitfield, 6099.
 dunleithensis n. sp., Miller and Gurley, 4002.
 eugium, Whitfield, 6102.
 featherstonhaughii n. sp., Clarke, 953.
 hallianum d'Orbigny 1850, Clarke, 953.
 houghtoni n. sp., Clarke, 953.
 howardi n. sp., Miller, 3995.
 indianense n. sp., Miller, 3992.
 kansasense n. sp., Miller and Gurley, 3998.
 kirbyi (?) Whitfield, Cleland, 1012.
 laticurvatum n. sp., Whiteaves, 6083, 6087.
 loculosum, Whitfield, 6102.
 luthi n. sp., Calvin, 684.
 manitobense Whiteaves, Whiteaves, 6087.
 minneapolis n. sp., Clarke, 953.
 nashvillense n. sp., Miller, 3992.
 nелеus Hall 1861, Clarke, 953.
 nелеus, Whitfield, 6102.
 norwoodi n. sp., Clarke, 953.
 orodes Billings, Whiteaves, 6080.
 quebecense n. sp., Whiteaves, 6089.
 saffordi n. sp., Miller, 3992.
 secofieldi n. sp., Clarke, 953.
 shumardi n. sp., Clarke, 953.
 thompsoni n. sp., Miller, 3905.
 unicorn Win., Weller, 6006.
 whitneyi, Whitfield, 6102.
 (*Glyptoceras*) *eatonense*, Foerste, 1835.
 (*Glyptoceras*) *subcompressum*, Foerste, 1835.
 (*Glyptodendron*) *eatonense*, Foerste, 1832.
 sp. (?), Cleland, 1012.
Cyrtoceria (?) *schoolecrafti* n. sp., Clarke, 953.
Cyrtoclymenia *neapolitana* Clarke, Clarke, 960.
Cyrtodaria *siliqua* Daudin, Dall, 1259.
Cyrtodonta Billings, Ulrich, 5539.
 affinis n. sp., Ulrich, 5539.
 ampla n. sp., Ulrich, 5539.
 billingsi n. sp., Ulrich, 5539.
 canadensis Billings, Whiteaves, 687.
 cingulata Ulrich, Ulrich, 5539.
 gibbera n. sp., Ulrich, 5539.
 glabella Ulrich, Ulrich, 5539.
 grandis Ulrich, Ulrich, 5539.
 janesvillensis n. sp., Ulrich, 5539.
 obesa n. sp., Ulrich, 5539.
 obliqua Meek and Worthen, Ulrich, 5539.
 oviformis Ulrich, Ulrich, 5539.
 parva n. sp., Ulrich, 5539.
 persimilis n. sp., Ulrich, 5539.
 rotulata n. sp., Ulrich, 5539.
 subovata n. sp., Ulrich, 5539.
 tenella Ulrich, Ulrich, 5539.
Cyrtodontida n. fam., Ulrich, 5539.
Cyrtolites Conrad, Ulrich and Scofield, 5541.
 carinatus Miller, Ulrich and Scofield, 5541.

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Genera and species described—Continued.

- Cyrtolites* (?) *dilatatus* n. sp., Ulrich and Scofield, 5541.
 disjunctus n. sp., Ulrich and Scofield, 5541.
 expansus Hall, Clarke, 971.
 ornatus Conrad, Ulrich and Scofield, 5541.
 parvus n. sp., Ulrich and Scofield, 5541.
 retrorsus n. sp., Ulrich and Scofield, 5541.
 var. *fillmorensis* n. var., Ulrich and Scofield, 5541.
Cyrtolithes *atlantoides* n. sp., Matthew, 3751.
Cyrtometopus n. gen., Ulrich and Scofield, 5541.
 nitidula Ulrich, Ulrich and Scofield, 5541.
 secofieldi n. sp., Clarke, 952.
Cyrtospira n. gen., Ulrich and Scofield, 5541.
 bicurvata n. sp., Ulrich and Scofield, 5541.
 tortilis n. sp., Ulrich and Scofield, 5541.
 wykoftensis n. sp., Ulrich and Scofield, 5541.
Cyroceras (?) sp., Clarke, 976.
Cystelasma *lanesvillense* n. gen. et sp., Miller, 3992.
Cystiphyllum Lonsdale, Grabau, 2086.
 aggregatum Billings, Lambe, 3375.
 americanum E. and H., Grabau, 2086.
 americanum Edwards and Haime, Keyes, 3061.
 cerassatum, n. sp., Greene, 2162a.
 confolli Hall, Grabau, 2086.
 constrictum, n. sp., Greene, 2162c.
 gemmatum, n. sp., Greene, 2162a.
 gemma, n. sp., Greene, 2162a.
 greenii n. sp., Miller, 3995.
 infundibuliformis, n. sp., Greene, 2162c.
 invaginatum, n. sp., Greene, 2162d.
 laciniatum, n. sp., Greene, 2162a.
 lamellatum, n. sp., Greene, 2162c.
 niagarensis Hall sp., Lambe, 3375.
 osculum, n. sp., Greene, 2162c.
 ossiculum, n. sp., Greene, 2162a.
 parasiticum, n. sp., Greene, 2162c.
 varians Hall, Grabau, 2086.
 vesiculolum Goldfuss sp., Lambe, 3375.
Cystodictya Simpson, 4983.
 divisa n. sp., Rogers, 4656.
 inequimarginata n. sp., Rogers, 4656.
 sp., Herriek and Bendrat, 2464.
Cystopora, Simpson, 4983.
Cythera *crassimarginata*, Lane, 3400.
 gibba n. sp., Guppy and Dall, 2214.
 guppyi n. sp., Guppy and Dall, 2214.
 monticula, n. sp., Jones, 2934.
 mucronata n. sp., Guppy and Dall, 2214.
 obtusa n. sp., Guppy and Dall, 2214.
 terminula n. sp., Dall, 1259.
Cythera *arata* Gabb, Whiteaves, 6085.
 concentrica, Say, 4813.
 convexa, Say, 4813.
 eversa Conrad, Clark, 906.
 lamarensis Shum, Cragin, 1115.
 leveretti n. sp., Cragin, 1115.
 newcombei n. sp., Merriam, 3919, 3923.
 ovata Rogers, Clark, 906.
 subimpressa Conrad, Clark, 906.

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Genera and species described—Continued.

- Cytherea* taffi n. sp., Cragin, 1115.
 vancouverensis n. sp., Merriam, 3919, 3923.
Cythereella Jones and Bosquet, Ulrich, 5540.
 erucifera n. sp., Jones, T. R., 2935.
 (?) rugosa Jones, Ulrich, 5540.
 var. areta n. var., Ulrich, 5540.
 (?) subrotunda n. sp., Ulrich, 5540.
Cytheridea tenuis n. sp., Jones, 2934.
 truncata n. sp., Jones, 2934.
 tyrrellii n. sp., Jones, T. R., 2935.
Cytherideis aequalis n. sp., Jones, 2934.
 impressa n. sp., Jones, 2934.
Cytilus tartarinus n. sp., Scudder, 4900.
Cyttaromyia, Scudder, 4894.
 cancellata, Scudder, 4894.
 clathrata, Scudder, 4894.
 oligocena, Scudder, 4894.
 prineetoniana, Scudder, 4894.
Czekanowskia capilaris n. sp., Newberry, 4080.
 nervosa Heer, Fontaine, 1850.
Dactylodus N. and W., Newberry, 4082.
 latus n. sp., Newberry, 4082.
 princeps N. and W., Newberry, 4082.
 rectus n. sp., Newberry, 4082.
Dactylodites asteroides Fitch, Walcott, 5811.
Dactyloporus archaicus, Herzer, 2501.
Daemonelix, Barbour, 231.
 anaxilis, Barbour, 230.
 bispiralis, Barbour, 230.
 earinati, Barbour, 230.
 eireumaxilis, Barbour, 230.
 eireumaxilis, James, 2894.
 robusta, Barbour, 230.
Dakbergia apiculata n. sp., Newberry, 4080.
Dallina Beecher, Hall and Clarke, 2264.
Dalmanella, Hall and Clarke, 2260.
 holiensis, n. sp., Cleland, 1012.
 perelegans Hall, Clarke, 971.
 subcarinata Hall, Girty, 2037.
 (Orthis) wemplei, n. sp., Cleland, 1012.
Dalmanites aehates Billings, 1860, Clarke, 952.
 bisignatus n. sp., Clarke, 971.
 hausmanni, Beecher, 366.
 phacoptyx Hall and Clarke, Clarke, 971.
 pleuroptyx (Green), Girty, 2037.
 socialis, Beecher, 366.
 tridentifera (Shumard), Keyes, 3061.
 werthneri, Foerste, 1835.
 (Synphoria) stemmatus n. sp., Clarke, 971.
 var. convergens n. var., Clarke, 971.
Dammara borealis Heer, Newberry, 4080.
Dammara (?) cliffwoodensis n. sp., Hollick, 2698.
 microlepis Heer, (?) Hollick, 2696.
Dammarites caudatus Lesq., Lesquereux, 3470.
 dubius n. sp., Dawson, 1436.
 emarginatus Lesq., Lesquereux, 3470.
Danceopsis ? sp., Fontaine, Ward, 5857.
Daonella boehiformis n. sp., Hyatt, 2818.
 cardinoides n. sp., Hyatt, 2818.
Daonella subjeeta (?), Hyatt, 2818.
Daphnella engulata n. sp., Dall, 1259.

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Genera and species described—Continued.

- Daphnella* elata Dall, Dall, 1259.
 modesta n. sp., Dall, 1259.
Daphnia longispina, Beecher, 366.
Daphnogene kanii (?) Heer, Hollick, 2708.
Daphnophyllum angustifolium n. sp., Lesquereux, 3470.
 dakotense n. sp., Lesquereux, 3470.
Daptimus broadheadi n. sp., Stewart, 5237.
Darina Gray, Dall, 1272.
Davidsonella Munier-Chalmas, Hall and Clarke, 2264.
Davidsonia Bouchard, Hall and Clarke, 2260.
Daviesiella Waagen, Hall and Clarke, 2260.
Davila Gray, Dall, 1272.
Dawsonia, James, 2881.
 monodon n. sp., Gurley, 2217.
 silquaria, James, 2881.
 tridens n. sp., Gurley, 2217.
Dawsonites n. gen., Scudder, 4889.
 veter n. sp., Scudder, 4889.
Daya Davidson, Hall and Clarke, 2261, 2264.
Deadoerinus grandis, Springer, 5163.
 tumidulus, Springer, 5163.
Deinodon Leidy, Hay, 2384.
Dekayella, Simpson, 4983.
Dekayella Ulrich, Ulrich, 5537.
 praenuntia n. sp., Ulrich, 5537.
 var. echinata n. var., Ulrich, 5537.
 var. multipora n. var., Ulrich, 5537.
 var. nevigera n. var., Ulrich, 5537.
 var. simplex n. var., Ulrich, 5537.
Dekayia, Simpson, 4983.
Dekayia Edwards and Haime, Ulrich, 5537.
 trentonensis Ulrich, Ulrich, 5537.
Deloerinus n. gen., Miller and Gurley, 3991.
 hemisphericus Shumard, Miller and Gurley, 3991.
 missouriensis n. sp., Miller and Gurley, 3991.
Deltatherium fundaminis Cope, Osborn and Earle, 4191.
Deltoceras n. gen., Hyatt, 2819.
 planum n. sp., Hyatt, 2819.
Deltodus complanatus N. and W., Newberry, 4082.
 grandis N. and W., Newberry, 4082.
 inornatus n. sp., Newberry, 4082.
 planidens n. sp., Cope, 1093.
 spatulatus N. and W., Newberry, 4082.
Dendraeis cantabridgiensis n. sp., Vaughan, 5734.
 tubulata (Lonsdale), Vaughan, 5735.
Dendroclonella n. gen., Rauff, 4549.
 rugosa n. sp., Rauff, 4549.
Dendrograptus, James, 2881.
 gracillimum, James, 2881.
 cf. serpens Hopkinson, Gurley, 2217.
 tenuiramosus, James, 2881.
 unilateralis n. sp., Gurley, 2217.
Dendrophycus shoemakeri Ward n. sp., Ward, 5857.
Dendrophyllia lisbonensis, n. sp., Vaughan, 5735.
Dendrophyllia striata, n. sp., Vaughan, 5735.
Dentalium attenuatum, Say, 4813.

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- Dentalium caduloide n. sp., Dall, 1259.
 californicum n. sp., Stanton, 5199.
 caloosense n. sp., Dall, 1259.
 grandævum Win., Weller, 6006.
 martini, Whitfield, 6098.
 mediaviense, Harris, 2310.
 microstria Heilprin, Aldrich, 73.
 microstria Heilp., Harris, 2316.
 multannulatum n. sp., Aldrich, 73.
 multannulatum Ald., Harris, 2316.
 prisma n. sp., Dall, 1259.
 ripleyanum, Whitfield, 6097.
 subarcuatum, Whitfield, 6097.
 thalloides Con., Harris, 2316.
 tetragonum, Harris, 2309.
 (Falcula) falcatum, Whitfield, 6097.
 Derbya Waagen, Hall and Clarke, 2260.
 affinis n. sp., Hall and Clarke, 2260.
 bemetti n. sp., Hall and Clarke, 2261, 2268.
 biloba n. sp., Hall and Clarke, 2260, 2268.
 broadheadi n. sp., Hall and Clarke, 2260, 2268.
 costatula n. sp., Hall and Clarke, 2260, 2268.
 crassa, Lane, 3400.
 cymbula n. sp., Hall and Clarke, 2260, 2268.
 keokuk Hall (?), Girty, 2038.
 ruginosa n. sp., Hall and Clarke, 2260, 2268.
 Desmatochelys lowii en. gen. et sp., Williston, 6225.
 lowii, Williston, 6245.
 Desmocerat affine n. sp., Whiteaves, 6073.
 var. glabrum, Whiteaves, 6073.
 athabascense n. sp., Whiteaves, 6073.
 breweri, Whiteaves, 6095a.
 californicum n. sp., Stanton, 5199.
 dawsoni n. sp., Whiteaves, 6095a.
 haydenii, Whiteaves, 6095a.
 latidorsatum Michelin, Whiteaves, 6095a.
 maudense, Whiteaves, 6095a.
 perczianum, Whiteaves, 6095a.
 (Puzosia) planulatum? Sowerby, Whiteaves, 6095a.
 Desmograptus devonicus n. sp., Gurley, 2217.
 macrodictyum n. sp., Gurley, 2217. $\blacktriangleleft$
 Desmophyllum willcoxi n. sp., Gane, 1934.
 Deuterosaurus, Case, 768.
 Devallia? montana n. sp., Knowlton, 3255.
 Dewalquea dakotensis n. sp., Lesquereux, 3470.
 groenlandica Heer (?), Hollick, 2696.
 grönlandica Heer (?), Newberry, 4080.
 primordialis n. sp., Lesquereux, 3472.
 trifoliata n. sp., Newberry, 4080.
 Diadactes, Case, 768.
 Diademodon, Case, 768.
 Diamesopora, Simpson, 4983.
 Diamesopora Hall, Ulrich, 5537.
 trentonensis n. sp., Ulrich, 5537.
 Dianulites, Simpson, 4983.
 Diaphorostoma? agassizi, n. sp., Clarke, 976.
 darwini, n. sp., Clarke, 976.
 desmatum n. sp., Clarke, 971.
 furmanianum, Hartt and Rathbun (sp.), Clarke, 976.

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- Diaphorostoma ventricosum Conrad, Clarke, 971.
 Diastoporina, Simpson, 4983.
 Diastoporina Ulrich, Ulrich, 5537.
 flabellata Ulrich, Ulrich, 5537.
 Diatomaceae, Edwards, 1616.
 Diatomaceae, Elmore, 1664.
 Diatoms, Boyer, 517.
 Dibelodon humboldtii Cuvier, Cope, 1087.
 præcursor Cope, Cope, 1087.
 tropicus Cope, Cope, 1087.
 Dicamara Hall, Hall and Clarke, 2264.
 Dicelcephalus, Owen, Berkeley, 429.
 misa Hall, Berkeley, 429.
 Dicellograpsus gurleyi Lapworth n. sp., Gurley, 2217.
 intortus var. polytheatus n. var., Gurley, 2217.
 Dicellomus Hall, Walcott, 5816.
 nanus M. and H. sp., Walcott, 5816.
 Diceratherium, Hatcher, 2331.
 douvillei n. sp., Osborn, 4221.
 proavium, Hatcher, 2338.
 Dichocoenia alabamensis n. sp., Vaughan, 5735.
 Dichocrinus Münster, Wachsmuth and Springer, 5765a.
 angustus White, Wachsmuth and Springer, 5765a.
 blairi Miller, Keyes, 3061.
 blairi n. sp., Miller, 3992.
 blairi S. A. Miller, Wachsmuth and Springer, 5765a.
 bozemanaensis n. sp., Miller and Gurley, 4003.
 cinetus Müller and Gurley, Wachsmuth and Springer, 5765a.
 cinetus n. sp., Miller and Gurley, 3991.
 conus Meek and Worthen, Wachsmuth and Springer, 5765a.
 coxanus Worthen, Wachsmuth and Springer, 5765a.
 crassistestus White, Wachsmuth and Springer, 5765a.
 delicatus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 dichotomus Hall, Wachsmuth and Springer, 5765a.
 ficus Cass. and Lyon, Wachsmuth and Springer, 5765a.
 ficus Casseday and Lyon, Keyes, 3061.
 hamiltonensis Worthen, Wachsmuth and Springer, 5765a.
 humbergi, Miller, 3992.
 humburgi S. A. Miller, Wachsmuth and Springer, 5765a.
 huntsvillae W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 inornatus W. and Sp., Wachsmuth and Springer, 5765a.
 lachrymosus Hall, Wachsmuth and Springer, 5765a.
 laevis Hall, Wachsmuth and Springer, 5765a.
 lineatus Meek and Worthen, Wachsmuth and Springer, 5765a.

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- Dichocrinus liratus* Hall, Wachsmuth and Springer, 5765a.
oblongus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
ornatus W. and Sp., Wachsmuth and Springer, 5765a.
ovatus O. and Shum., Wachsmuth and Springer, 5765a.
parvulus S. A. Miller, Wachsmuth and Springer, 5765a.
pendens W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
pentalobus (Cass. and Lyons), Wachsmuth and Springer, 5765a.
pisum Meek and Worthen, Wachsmuth and Springer, 5765a.
plicatus Hall, Wachsmuth and Springer, 5765a.
polydactylus Casseday and Lyon, Wachsmuth and Springer, 5765a.
scitulus Hall, Wachsmuth and Springer, 5765a.
striatus O. and Shum., Wachsmuth and Springer, 5765a.
striatus Owen and Shumard, Keyes, 3061.
superstes W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
ulrichi Miller and Gurley, Wachsmuth and Springer, 5765a.
ulrichi n. sp., Miller and Gurley, 3991.
Dichograptus logani Hall, Matthew, 3746.
nitidus (Hall), var., Matthew, 3746.
ramosus, James, 2881.
Dichograptus remotus n. sp., Gurley, 2217.
Dicolocapsa, Matthew, G. F., 3760.
Dicranella n. gen., Ulrich, 5540.
bicornis n. sp., Ulrich, 5540.
marginata n. sp., Ulrich, 5540.
(?) simplex n. sp., Ulrich, 5540.
spinosa n. sp., Ulrich, 5540.
Dicranograptus, James, 2881.
Dicranograptus furcatus (Hall), Gurley, 2217.
nicholsoni var. *diapason* n. var., Gurley, 2217.
nicholsoni var. *parvanguis* Gurley, Gurley, 2217.
Dicranomyia fontainei, Scudder, 4894.
fragilis, Scudder, 4894.
inferna, Scudder, 4894.
longipes, Scudder, 4894.
primitiva, Scudder, 4894.
rostrata, Scudder, 4894.
stagnorum, Scudder, 4894.
stigmosa, Scudder, 4894.
Dicranophyllum ? sp., White, 6050.
Dicranopora, Simpson, 4893.
parva n. sp., Ami, 79.
Dictyocephalus, Matthew, G. F., 3760.
Dictyonema, James, 2881.
actinotum n. sp., Gurley, 2217.
arbusculum, James, 2881.
blairi n. sp., Gurley, 2217.
crassum n. sp., Girty, 2034.
delicatum Dawson, var., Matthew, 3746.

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- Dictyonema*, *flambelliforme* Eichwald, Matthew, G. F., 3762.
cf. neenah Hall, Gurley, 2217.
neenah, Whitfield, 6102.
perexile n. sp., Gurley, 2217.
cf. splendens Billings, Clarke, 971.
Dictyophytra (?) walcotti n. sp., Rauff, 4548.
Dictyopteris carrii (Lx.), White, 6049.
gilkersonensis D. W., White, 6049.
squarrosa Ett. sp., White, 6040.
Dictyorrhabdus priscus n. gen. et sp., Walcott, 5780.
Dictiospongia n. gen., Hall and Clarke, 2269, 2270.
almondensis n. sp., Hall and Clarke, 2269, 2270.
(?) bacteria n. sp., Hall and Clarke, 2269, 2270.
charia n. sp., Hall and Clarke, 2269, 2270.
cylindrica Whitfield (sp.), Hall and Clarke, 2269, 2271.
eumorphia n. sp., Hall and Clarke, 2269, 2270.
haptera n. sp., Hall and Clarke, 2269, 2270.
lophura n. sp., Hall and Clarke, 2269, 2270.
(?) marcellia Clarke (sp.), Hall and Clarke, 2269, 2270.
morini Barrois (sp.), Hall and Clarke, 2269, 2270.
sceptrum Hall (sp.), Hall and Clarke, 2269, 2270.
sirea n. sp., Hall and Clarke, 2269, 2270.
(?) styliina n. sp., Hall and Clarke, 2269, 2270.
(Mastodictya) osculada n. sp., Hall and Clarke, 2269, 2270.
Dicynodon, Case, 768.
Didymictis Cope, Osborn, 4183.
haydenianus Cope, Matthew, 3801.
protenus varaltidens Cope, Osborn, 4193a.
Didymoceras n. gen., Hyatt, 2819.
nebrascense, Hyatt, 2819.
Didymograptus bipunctatus n. sp., Gurley, 2217.
convexus n. sp., Gurley, 2217.
hirundo Salter, Gurley, 2217.
perflexus n. sp., Gurley, 2217.
sagitticaulis n. sp., Gurley, 2217.
Didymosorus ? bindrabenensis acutifolius Fontaine, Ward, 5857.
Dielasma King, Grabau, 2086.
Dielasma King, Hall and Clarke, 2261a, 2264.
obovatum, Hall and Clarke, 2268.
turgida, Beecher and Schuchert, 358.
turgida Hall var. *elongata* n. var., Weller, 5986.
utah Hall and Whitfield, Girty, 2038.
(Cranæna) romingeri Hall, Grabau, 2086.
(Cranæna) Hall, Hall and Clarke, 2264.
sp.?, Weller, 5994.
Dielasma Waagen, Hall and Clarke, 2261a, 2264.
Digonoceras n. gen., Hyatt, 2819.
rotundum n. sp., Hyatt, 2819.
Dillwynella naticoides Lea, Dall, 1259.
? texana n. sp., Harris, 2307.

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- Dilobella* n. gen., Ulrich, 5540.
typha n. sp., Ulrich, 5540.
Dimerella Zittel, Hall and Clarke, 2264.
Dimetrodon Cope, Baur and Case, 300.
incisivus Cope, Case, 763.
Dimorphodon, Case, 768.
Dimya grandis Dall, Dall, 1272.
grandis n. sp., Guppy and Dall, 2214.
Dinarella Bittner, Hall and Clarke, 2264.
Dinichthys, Claypole, 980, 990.
Dinichthys, Dean, 1469, 1473.
Dinichthys, Eastman, 1597, 1605.
Dinichthys, Wright, 6499, 6500.
canadensis n. sp., Whiteaves, 6096.
clarki, Claypole, 988.
clarki Claypole, Eastman, 1608.
gouldi Newberry, Dean, 1472.
gracilis, Claypole, 988.
halmodeus (Clarke), Eastman, 1608.
herzeri Newb., Eastman, 1608.
intermedius Newberry, Eastman, 1602.
kepleri n. sp., Claypole, 1004.
lincolni, Claypole, 988.
prentis-clarki, Claypole, 1003.
pustuosus, Eastman, 1602, 1608.
terrelli Newberry, Dean, 1472.
terrelli Newberry, Eastman, 1602.
Dinictis major n. sp., Lucas, 3584.
paucidens, Riggs, 4640.
? sp., Williston, 6228.
Dinobastis serus n. sp., Cope, 1095.
Dinobolus Hall, Hall and Clarke, 2260.
? *parvus* Whitfield, Winchell and Schuchert, 6319.
Dinornis, Case, 769.
Dinorthis, Hall and Clarke, 2260.
Dinosauria, Marsh, 3695.
Dinotomius atrox n. gen. et sp., Williston, 6228.
Dione marylandica, Whitfield, 6101.
sayana Conrad, Whitfield, 6101.
Dioonites buchianus Schimper, Fontaine, 1846.
buchianus var. *angustifolius* Font., Fontaine, 1846.
buchianus var. *rarinervis* n. var., Fontaine, 1846, 1847.
carallianus (Göppert) Bornemann, Ward, 5857.
dunkerianus (Göpp.) Miquel, Fontaine, 1846, 1847.
Dioristella Bittner, Hall and Clarke, 2264.
Diorogoceras n. gen., Hyatt, 2816.
Diospyros apiculata n. sp., Lesquereux, 3470.
branchysepala Al. Br., Knowlton, 3264.
calyx Dawson, 1436.
celastroides n. sp., Lesquereux, 3470.
cuspidata n. sp., Kirehner, 3187.
eminens n. sp., Dawson, 1436.
hagueli n. sp., Knowlton, 3255.
lamarensis n. sp., Knowlton, 3255.
primæva Heer, Lesquereux, 3470.
primæva Heer, Newberry, 4080.
pseudanceps n. sp., Lesquereux, 3470, 3472.

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- Diospyros rotundifolia* Lesq., Lesquereux, 3470.
steenstrupi Heer, Lesquereux, 3470.
vancouverensis Dn., Dawson, 1436.
Dipeltinae n. subfam., Schuchert, 4850.
Dipeltis Packard (emend.), Schuchert, 4850.
carri n. sp., Schuchert, 4850.
diplodiscus Packard, Schuchert, 4850.
Diphyphyllum adjunctum, n. sp., Greene, 2162c.
cæspitosum Hall sp., Lambe, 3375.
expansum, n. sp., Greene, 2162b.
laxum, n. sp., Greene, 2162c.
multicaule Hall sp., Lambe, 3375.
prolatum, n. sp., Greene, 2162c.
simcoense Billings sp., Lambe, 3375.
stokesi Edwards and Haime, Whiteaves, 6087.
unicum, n. sp., Greene, 2162.
wadsworthi, n. sp., Greene, 2162c.
Diplaceanthus horridus n. sp., Woodward, 6435.
Diplitrypa Nicholson, Ulrich, 5537.
limitaris n. sp., Ulrich, 5537.
neglecta n. sp., Ulrich, 5537.
Diplocaulus limbatus n. sp., Cope, 1097.
magnicornis Cope, Cope, 1097.
salamandroides Cope, Case, 773.
Diploconcha (Serpula?) *eretacea*?, Whitfield, 6097.
Diplodocus, Case, 768.
Diplodocus Marsh, 3701, 3702.
longus, Osborn, 4213.
Diplodonta Brown, Dall, 1281.
acelinis Conrad, Dall, 1281.
alta Dall, Dall, 1281.
caloosacensis n. sp., Dall, 1281.
hopkinsensis Clark, Clark, 901, 906.
hopkinsensis Clark, Dall, 1281.
inflata Lea, Dall, 1281.
leana Dall, Dall, 1281.
nucleiformis Wagner, Dall, 1281.
punctata Say, Dall, 1281.
radiata n. sp., Dall, 1281.
shilohensis Dall, Dall, 1281.
soror C. B. Adams, Dall, 1281.
turgida Conrad, Dall, 1281.
ungulina (Conrad, Dall, 1281.
yorkensis n. sp., Dall, 1281.
(Felandiella) minor n. sp., Dall, 1281.
(Phlyetiderma) punctulata H. C. Lea, Dall, 1281.
semiaspera Philippi, Dall, 1281.
(Phlyetiderma) puncturella n. sp., Dall, 1281.
(Sphaerella) subvexa (Conrad), Dall, 1281.
sp., Harris, 2313.
Diplodus politus Newberry, Eastman, 1604.
priscus n. sp., Eastman, 1604.
striatus n. sp., Eastman, 1604.
Diplograptus, James, 2881.
Diplograptus McCoy, Ruedemann, 4688.
pristiniformis, Ruedemann, 4681.
pristis, Ruedemann, 4681, 4688.
pristis? (Hisinger) Hall, Winchell and Schuchert, 6318.

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- Diplograptus putillus* Hall, Winchell and Schuchert, 6318.
ruedemanni Gurley, Ruedemann, 4688.
spinulosus, James, 2881.
typicalis Hall, Winchell and Schuchert, 6318.
whitfieldi, James, 2881.
Diplograptus stenopus n. sp., Gurley, 2217.
Diplopodia hilli Clark, Clark, 892.
hilli Clark, Cragin, 1115.
streeruwitzii n. sp., Cragin, 1115.
taffi n. sp., Cragin, 1115.
texana Roem., Cragin, 1115.
texanum (Roemer), Clark, 892.
Diplopora, Simpson, 4983.
Diplopora Milne-Edwards and Haime, Vaughan, 5734.
conferticostata n. sp., Vaughan, 5734.
var. columnaria n. var., Vaughan, 5734.
Diplosaurus nanus, Marsh, 3695.
Diplospirella Bittner, Hall and Clarke, 2264.
Diplothea acadica, var. *crassa*, Matthew, 3761.
hyattiana, Matthew, 3761.
Diplothemema geniculatum (Germ. et Kaulf.) Stur., White, 6040.
Diploptypa quebecensis n. sp., Ami, 79.
Diplurus, Case, 766.
Dipnoi Case, 766.
Dipterus calvinii n. sp., Eastman, 1608.
calvini Eastman, Udden, 5519.
contraversus, Hay, 2381.
costatus n. sp., Eastman, 1608.
mordax n. sp., Eastman, 1608.
uddeni n. sp., Eastman, 1608.
Diptyhoceras, Hyatt, 2819.
Discina Lamarck, Hall and Clarke, 2260.
convexa Shumard, Keyes, 3062.
fletcheri n. sp., Ami, 88.
humilis, Whitfield, 6099.
illinoisensis n. sp., Miller and Gurley, 3997a.
iodensis, Whitfield, 6099.
lugubris, Whitfield, 6099.
meekana, Whitfield, 6099.
minuta, Whitfield, 6099.
munda n. sp., Miller and Gurley, 3997a.
nitida (Phillips), Keyes, 3062.
nova-scotica n. sp., Ami, 88.
orientalis n. sp., Ami, 88.
sampsoni n. sp., Miller, 3992.
Discinisea Dall, Hall and Clarke, 2260.
Discinolepis Waagen, Hall and Clarke, 2260.
Discinopsis (Matthew) n. gen., Hall and Clarke, 2260.
Discitoceras, Hyatt, 2816.
Discoceras, Hyatt, 2819.
antiquissimum, Hyatt, 2819.
canadense n. sp., Whiteaves, 6087.
grafftonense, Hyatt, 2819.
grafftonense M. & W., Whiteaves, 6080.
Discobelix retifera n. sp., Dall, 1259.
verrilli n. sp. (by Aldrich), Harris, 2316.
Discophyllum peltatum Hall, Walcott, 5811.
Discorbina allomorphinoides (Reuss), Chapman, 870.

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- Discorbina bertheloti* (d'Orbigny), Bagg, 148, 150.
orbicularis, Bagg, 148.
Discotrochus orbignianus Milne-Edwards and Haime, Vaughan, 5735.
Disculina (?) Deslongchamps, Hall and Clarke, 2264.
Disputea tubifera, Say, 4813.
Dissacus carnifex Cope, Osborn and Earle, 4191.
leptognathus n. sp., Osborn and Wortman, 4180.
navajovius Cope, Matthew, 3801.
saurognathus Wortman, Matthew, 3801.
Dissorhophus articulatus Cope, Cope, 1102.
Distichium capillaceum, Penhallow, 4336.
Distyonema Hall, Grabau, 2086.
Distyotites fasciolus n. sp., Penhallow, 4333.
maximus n. sp., Penhallow, 4333.
Ditoecholasma n. gen., Simpson, 4984.
Dittodus latus (Newb.), Hay, 2388.
lucasi n. sp., Hay, 2388.
Divaricella prevaricata n. sp., Guppy and Dall, 2214.
Dizygocerinus W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
andrewsianus (McChesney), Wachsmuth and Springer, 5765a.
biturbinatus (Hall), Wachsmuth and Springer, 5765a.
cantonensis W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
crawfordsvillensis S. A. Miller, Wachsmuth and Springer, 5765a.
decoris (S. A. Miller), Wachsmuth and Springer, 5765a.
dodecadactylus (Meek and Worthen), Wachsmuth and Springer, 5765a.
euconus (Meek and Worthen), Wachsmuth and Springer, 5765a.
euconus, var. *abscissus* (Rowley and Hare), Wachsmuth and Springer, 5765a.
faeetus (Miller and Gurley), Wachsmuth and Springer, 5765a.
gorbyi S. A. Miller, Wachsmuth and Springer, 5765a.
gurleyi (S. A. Miller), Wachsmuth and Springer, 5765a.
indianensis (Lyon and Cass), Wachsmuth and Springer, 5765a.
indianensis, var. *simplex* W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
montgomeryensis, var. *unibrachiatus* W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
montgomeryensis Worthen, Wachsmuth and Springer, 5765a.
mutabilis W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
originarius, var. *adultus* (W. and Sp.), Wachsmuth and Springer, 5765a.
originarius W. and Sp., Wachsmuth and Springer, 5765a.
rotundus (Yand. and Shum.), Wachsmuth and Springer, 5765a.
unionensis, var. *divalis* (S. A. Miller), Wachsmuth and Springer, 5765a.

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- Dizygocrinus unionensis (Worthen), Wachsmuth and Springer, 5765a.
 whitei, var. didactylus W. and Sp., Wachsmuth and Springer, 5765a.
 whitei W. and Sp., Wachsmuth and Springer, 5765a.
 Doerhynchus n. gen., Seudder, 4890.
 enlex, Seudder, 4890.
 terebraus, Seudder, 4890.
 Dolabella aldrichi n. sp., Dall, 1259.
 Dolatocrinus amplus n. sp., Miller and Gurley, 3997c.
 aplatus n. sp., Miller and Gurley, 3999, 4000.
 approximatus n. sp., Miller and Gurley, 3997b.
 argutus n. sp., Miller and Gurley, 3999.
 arrosus n. sp., Miller and Gurley, 4000.
 asper n. sp., Miller and Gurley, 4000.
 aspratilis n. sp., Miller and Gurley, 4000.
 aureatus n. sp., Miller and Gurley, 3997b.
 basilicus n. sp., Miller and Gurley, 4000.
 bellarugosus n. sp., Miller and Gurley, 3999.
 bellulus n. sp., Miller and Gurley, 3997d.
 bulbaceus n. sp., Miller and Gurley, 3997b.
 cælatus n. sp., Miller and Gurley, 3999.
 charlestownensis n. sp., Miller and Gurley, 3999.
 cistula n. sp., Miller and Gurley, 4000.
 corporosus n. sp., Miller and Gurley, 3997d.
 dispar n. sp., Miller and Gurley, 4000.
 dissimilaris n. sp., Miller and Gurley, 4000.
 exornatus n. sp., Miller and Gurley, 3997d.
 grandis n. sp., Miller and Gurley, 3997b.
 greenei n. sp., Miller and Gurley, 3997b.
 hammelli n. sp., Miller and Gurley, 3997d.
 indianensis n. sp., Miller and Gurley, 3999.
 iaguncula n. sp., Miller and Gurley, 4000.
 laevis Lyon, Miller and Gurley, 3997b.
 lineolatus n. sp., Miller and Gurley, 3997b.
 lyoni n. sp., Miller and Gurley, 4000.
 magnificus n. sp., Miller and Gurley, 3997b.
 marshi Lyon, Miller and Gurley, 3997b.
 neglectus n. sp., Miller and Gurley, 4003.
 nodosus n. sp., Miller and Gurley, 3998.
 ornatus Meek, Miller and Gurley, 3997b.
 ornatus var. asperatus n. var., Miller and Gurley, 3997b.
 peculiaris n. sp., Miller and Gurley, 4000.
 preciosus n. sp., Miller and Gurley, 4000.
 pulchellus n. sp., Miller and Gurley, 3997d.
 saeculus n. sp., Miller and Gurley, 3998.
 salebrosus n. sp., Miller and Gurley, 3998.
 spinosus n. sp., Miller and Gurley, 3997b.
 stellifer n. sp., Miller and Gurley, 3997b.
 vasculum n. sp., Miller and Gurley, 3997d.
 venustus n. sp., Miller and Gurley, 3997b.
 Dolichometopus Angelin, Matthew, 3776, 3788.
 acadicus n. sp., Matthew, 3776.
 Dolichosoma, Case, 767.
 Dolium (Doliopsis?) multiliratum n. sp., Whitfield, 6097.

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- Domatoceeras militarium n. sp., Hyatt, 2816.
 simplex n. sp., Hyatt, 2816.
 umbilicatum n. sp., Hay, 2389.
 Dombeyopsis platanoideis Lx., Knowlton, 3255.
 Donacia elongatula n. sp., Seudder, 4900.
 pompatica, Seudder, 4896.
 stiria, Seudder, 4896.
 Donax (Linné), Dall, 1281.
 æqualis Gabb, Dall, 1281.
 æquilibrata Dall, Dall, 1281.
 californica Conrad, Dall, 1281.
 carinata var. galvestonensis, Harris, 2309.
 chipolana n. sp., Dall, 1281.
 cuneata Stanton, Herrick and Johnson, 2465.
 cuneata n. sp., Stanton, 5191.
 emmonsii Dall, Dall, 1281.
 fossor Say, Dall, 1281.
 funerata Conrad, Dall, 1281.
 lævigata Deshayes, Dall, 1281.
 oblonga Stanton, Herrick and Johnson, 2465.
 oblonga n. sp., Stanton, 5181.
 striata Linné, Dall, 1281.
 variabilis Say, Dall, 1281.
 variabilis, Whitfield, 6101.
 Doryerinus Roemer, Grabau, 2086.
 Doryerinus Roemer, Wachsmuth and Springer, 5765a.
 Doryerinus, Whitfield, 6098.
 alabamensis n. sp., Miller and Gurley, 4001.
 cornigerus Hall, Keyes, 3061.
 cornigerus (Hall), Wachsmuth and Springer, 5765a.
 elegans n. sp., Miller, 3995.
 faberi n. sp., Miller and Gurley, 4001.
 gouldi (Hall), Keyes, 3061.
 gouldi (Hall), Wachsmuth and Springer, 5765a.
 greenei n. sp., Miller and Gurley, 3997c.
 intermedius (M. and W.), Wachsmuth and Springer, 5765a.
 mississippiensis Roemer, Wachsmuth and Springer, 5765a.
 missouriensis (Shumard), Keyes, 3061.
 missouriensis (Shumard), Wachsmuth and Springer, 5765a.
 pentalobus n. sp., Rowley, 4677.
 quinquelobus (Hall), Wachsmuth and Springer, 5765a.
 roemeri Meek and Worthen, Wachsmuth and Springer, 5765a.
 sampsoni n. sp., Miller and Gurley, 4001.
 suboviformis n. sp., Miller and Gurley, 4003.
 subturbinatus (M. & W.), Wachsmuth and Springer, 5765a.
 tricornis, Whitfield, 6098.
 unicornis (Owen and Shumard), Keyes, 3061.
 unicornis (O. and Shum.), Wachsmuth and Springer, 5765a.
 unispinus (Hall), Wachsmuth and Springer, 5765a.

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- Dorypyge Dames, Matthew, 3776, 3788.
 dawsoni Walcott sp., Matthew, 3788.
 horrida n. sp., Matthew, 3776.
 parvula Billings sp., Matthew, 3776.
 quadriceps valida n. var., Matthew, 3776.
 wasatchensis var. acadica n. var., Matthew, 3776.
 Dorytomus coercitus, Seudder, 4890.
 williamsi, Seudder, 4890.
 Dosinia acetabulum, Whitfield, 6101.
 Dosinia mercenaroides, Aldrich, 74.
 Dosiniopsis lenticularis, Harris, 2313.
 lenticularis (Rogers), Clark, 906.
 Drepanella Ulrich, Ulrich, 5540.
 bigeneris n. sp., Ulrich, 5540.
 bilateralis n. sp., Ulrich, 5540.
 Drillia abundans Conrad, Dall, 1259.
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 acucineta n. sp., Dall, 1259.
 acurugata n. sp., Dall, 1259.
 æpynota Dall var. acila, Dall, 1259.
 alesidota var. perspirata Dall, Dall, 1259.
 aphanitoma n. sp., Dall, 1259.
 bigemma n. sp., Dall, 1259.
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 eburnea Conrad, Dall, 1259.
 edilia n. sp., Dall, 1259.
 elegans, Whitfield, 6101.
 hoplophorus n. sp., Dall, 1259.
 (lissotropis var.?) perpolita Dall, Dall, 1259.
 scissurata Dall, Dall, 1259.
 myrmecoon n. sp., Dall, 1259.
 newmani n. sp., Dall, 1259.
 ostreum Stearns, Dall, 1259.
 piscator n. sp., Dall, 1259.
 podagrina n. sp., Dall, 1259.
 schismatica n. sp., Dall, 1259.
 sedilia n. sp., Dall, 1259.
 sigela n. sp., Dall, 1259.
 subflexuosa n. sp., Whitfield, 6101.
 tuberculata Emmons, Dall, 1259.
 ullreyana n. sp., Cooper, 1071.
 Dromopus agilis n. gen. et sp., Marsh, 3686.
 Dryophyllum crenatum Lx., Knowlton, 3264.
 elongatum n. sp., Dawson, 1436.
 falcatum? Ward, Knowlton, 3264.
 longipetillatum n. sp., Knowlton, 3255.
 neillianum n. sp., Dawson, 1436.
 occidentale n. sp., Dawson, 1436.
 stanleyanum n. sp., Dawson, 1448.
 subfalcatum Lx., Knowlton, 3264.
 Dryopteris? gleichenoides n. sp., Knowlton, 3263.
 idahoensis n. sp., Knowlton, 3246.
 weedii n. sp., Knowlton, 3255.
 xantholithense n. sp., Knowlton, 3255.
 Dryosaurus n. gen., Marsh, 3687, 3701.
 Dryptosaurus kenabekides, Hay, 2384.
 Dumblea, n. gen., Cragin, 1115.
 symmetrica n. sp., Cragin, 1115.
 Duncanella fanningana (Safford) Girty, 2037.
 rudis n. sp., Girty, 2034, 2037.
 Dyscolia Fischer and Oehlert, Hall and Clarke, 2264.
 Dystactophycus mamillanum Miller and Dyer, James, 2896.

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- Dystactospongia, James, 2881.
 insolens, James, 2881.
 minima, James, 2881.
 Dytsicidae sp., Seudder, 4900.
 Eatonia Hall, Hall and Clarke, 2264, 4261a.
 coulteri, n. sp., Miller and Gurley, 3997a.
 medialis Vanuxem, Clarke, 971.
 peculiaris Conrad, Clarke, 971.
 peculiaris? (Conrad), Keyes, 3062.
 Eccliomphalus Portlock, Grabau, 2086.
 Eccliomphalus Portlock, Ulrich and Scofield, 5541.
 compressus n. sp., Whitfield, 6106.
 contiguus n. sp., Ulrich and Scofield, 5541.
 laxus (Hall), Grabau, 2086.
 multiseptarius n. sp., Cleland, 1012.
 subrotundus n. sp., Ulrich and Scofield, 5541.
 undulatus Hall, Ulrich and Scofield, 5541.
 undulatus, Whitfield, 6102.
 Eecyliopterus Remele, Ulrich and Scofield, 5541.
 beliotensis n. sp., Ulrich and Scofield, 5541.
 owenanus Meek and Worthen, Ulrich and Scofield, 5541.
 Echinarachinus gibbsi Remond, Merriam, 3922.
 (?) cetenodictya Hall, Hall and Clarke, 2269, 2271.
 excentricus Eschscholtz, Merriam, 3923.
 implexa Hall, Hall and Clarke, 2269, 2271.
 Echinobrissus expansus Clark, Clark, 892.
 texanus Clark, Clark, 892.
 texanus Clark, Cragin, 1115.
 Echinocaris Whitfield, Whitfield, 6099.
 multinodosa, Whitfield, 6099.
 pustulosa, Whitfield, 6099.
 sublevis, Whitfield, 6099.
 Echinoderms, Agassiz, 54.
 Echinodiscus kaskaskiensis (Hall), Keyes, 3061.
 samsoni n. sp., Miller 3992.
 Ecphora Conrad, Dall, 1259.
 Ectacodon cinetus Cope, Earle, 1589.
 Ectoeconodon n. gen., Osborn, 4205.
 petersoni, n. sp., Osborn, 4205.
 Ectoeconus ditrigonus Cope, Osborn and Earle, 4191.
 Edaphoceras, Hyatt, 2819.
 Edaphophyllum, n. gen., Simpson, 4984.
 Edustus lecontei n. sp., Dean, 1474.
 Edmondia æquimarginalis Win., Weller, 6006.
 albersi n. sp., Miller and Gurley, 4002.
 aspinwallensis Meek, Keyes, 3062.
 cf. binumbonata A. Winchell, Lane, 3400.
 burlingtonensis White and Whitfield, Keyes, 3062.
 burlingtonensis M. and W., Weller, 5994, 6006.
 jejunos (Win.), Weller, 6006.
 missouriensis n. sp., Weller, 5994.
 nitida Win., Weller, 6006.
 nuptialis Winchell, Keyes, 3362.
 quadrata (W. & W.), Weller, 6006.

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Genera and species described—Continued.

- Edmondia ? reflexa Meek, Girty, 2037.
 subtruncata Meek?, Girty, 2037.
 sylvana, Hartt and Rathbun, Clarke, 976.
 (?) vetusta n. sp., Whiteaves, 6087.
 Ederocrinus becraftensis, n. sp., Clarke, 971.
 pocilliformis Hall, Keyes, 3061.
 Egerella Stoliczka, Dall, 1281.
 subtrigonia. (Lea), Dall, 1281.
 triangulata (Lea), Dall, 1281.
 Eichwaldia Billings, Hall and Clarke, 2261a, 2264.
 Eiliticus ? antiquus n. sp., Matthew, G. F., 3759.
 Elaeodendron polymorpha Ward, Knowlton, 3255.
 speciosum n. sp., Lesquereux, 3470.
 Elaphrus irregularis, Seudder, 4896.
 Elasmosaurus intermedius n. sp., Cope, 1089.
 Elaterites sp., Seudder, 4896.
 Elephas americanus, Blake, 483.
 primigenius Blum, Cope, 1087.
 Elkania Ford, Hall and Clarke, 2260.
 Ellipsocephalus articephalus Matt., Matthew, 3748, 3751.
 galeatus n. sp., Matthew, 3748, 3751, 3761.
 grandis n. sp., Matthew, 3751, 3761.
 Elomeryx armatus n. gen., Marsh, 3689.
 Elonichthys, Case, 766.
 peltigerus? Newberry, Hay, 2000, 2388.
 Elotherium clavum n. sp., Marsh, 3681.
 crassum, Marsh, 3681, 3684.
 mortoni Leidy, Ami, 84.
 uintense n. sp., Osborn, 4190.
 Elpe ulrichi n. sp., Foerste, 1835.
 Elymella Hall, Grabau, 2086.
 missouriensis n. sp., Miller and Gurley, 4002.
 missouriensis Miller and Gurley, Weller, 5994.
 nuculoides Hall, Grabau, 2086.
 Emarginula pilsbryi n. sp., Dall, 1259.
 (Rinula) caroliniana n. sp., Dall, 1259.
 Embaphias circulosus n. gen. et sp., Cope, 1089.
 Empedias, Case, 768.
 Emperoceras beecheri n. gen., Hyatt, 2819.
 Emperocrinus n. gen., Miller and Gurley, 3997d.
 indianensis n. sp., Miller and Gurley, 3997d.
 Empo lisbonensis n. sp., Stewart, 5243.
 Enallaster inflatus n. sp., Cragin, 1115.
 obliquatus Clark, Clark, 892.
 texanus (Roemer), Clark, 892.
 texanus Roem., Cragin, 1115.
 Enantiosphen Whidborne, Hall and Clarke, 2264.
 Encephalartos cretaceous n. sp., Lesquereux, 3470.
 Encephora sp., Seudder, 4895.
 Enehostoma, n. gen., Miller and Gurley, 4002.
 Enclimatoceras ulrichi, Harris, 2310.
 (Nautilus) ulrichi White, Harris, 2305.
 Eneirinus eristatus n. sp., Clarke, 952.
 deltoideus Shumard, Keyes, 3061.
 punctatus, Foerste, 1835.

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- Eneirinus punctatus, Norton, 4121.
 (?) raricostatus Walcott 1877, Clarke, 952.
 vannulus n. sp., Clarke, 952.
 Endoceras simpsoni Billings, Whiteaves, 6087.
 subannulatum Whitfield, Whiteaves, 6087.
 (Narthecoceras) crassiphonatum Whiteaves, Whiteaves, 6087.
 Endodesma n. gen., Ulrich, 5539.
 compressum n. sp., Ulrich, 5539.
 cuneatum n. sp., Ulrich, 5539.
 orthonotum Meek and Worthen, Ulrich, 5539.
 postlatum n. sp., Ulrich, 5539.
 undosum n. sp., Ulrich, 5539.
 Endolobus avonensis, Hyatt, 2819.
 missouriensis Swallow, Smith, 5046.
 Endopachys lonsdalei, n. sp., Vaughan, 5735.
 maclurii (Lea), Vaughan, 5735.
 var. tenuis, n. var., Vaughan, 5735.
 var. triangulare Conrad, Vaughan, 5735.
 minutum, n. sp., Vaughan, 5735.
 shaleri, n. sp., Vaughan, 5735.
 Endoptygma umbilicata, Whitfield, 6097.
 Endothyra baileyi var. parva n. var. Girty, 2038.
 Engina turbinella Kienner, Dall, 1259.
 Enoploclytus minor n. sp., Woodward, 6442.
 Ensis Schumacher, Dall, 1281.
 directus Conrad, Dall, 1281.
 ensiformis Conrad, Dall, 1281.
 minor Dall, Dall, 1281.
 Enteletes Fisher de Waldheim, Hall and Clarke, 2260.
 Enterolasma, n. gen., Simpson, 4984.
 Entolium aviculatum (Swallow), Keyes, 3062.
 Entomis Jones, Grabau, 2086.
 rhomboidea Jones, Grabau, 2086.
 Entomocaris n. gen., Whitfield, 6104.
 monroci n. sp., Whitfield, 6104.
 telleri n. sp., Whitfield, 6104.
 Eocidaris blairi n. sp., Miller, 3992.
 Eocleonus n. gen., Seudder, 4890.
 subjectus, Seudder, 4890.
 Eocoryne geminum Matthew, Rauff, 4548.
 Eohys distans n. sp., Marsh, 3690.
 robustus n. sp., Marsh, 3690.
 Eomeryx pumilus, Marsh, 3690.
 Eophyton Torell, Walcott, 5811.
 linnæanum Torell, Walcott, 5811.
 torelli Linnarsson, Walcott, 5811.
 Eotomaria n. gen., Ulrich and Seofield, 5541.
 canalifera n. sp., Ulrich and Seofield, 5541.
 dryope Billings, Ulrich and Seofield, 5541.
 elevata n. sp. Ulrich and Seofield, 5541.
 labiosa n. sp., Ulrich and Seofield, 5541.
 supraangulata Billings, Ulrich and Seofield, 5541.
 vicina n. sp., Ulrich and Seofield, 5541.
 Eozoon canadense, Bonney, 505.
 canadense, Dawson, J. W., 1447, 1450.
 Ephippiocera ferratum Hyatt, Hyatt, 2819.
 Epiaster electus n. sp., Cragin, 1115.
 elegans Shum., Cragin, 1115.
 var. nov. prænuntius, Cragin, 1115.

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- Epiaster elegans* (Shumard), Clark, 892.
hemiasterinus n. sp., Cragin, 1115.
whitei Clark, Clark, 892.
whitei Clark, Cragin, 1115.
- Epicaerus effossus*, Scudder, 4890.
exanimis, Scudder, 4890.
saxatilis, Scudder, 4890.
- Episcoposaurus haplocerus* n. sp., Cope, 1084.
Eporeodon major, Osborn and Wortman, 4189.
- Equisetum canaliculatum* n. sp., Knowlton, 3255.
deciduum n. sp., Knowlton, 3255.
haguei n. sp., Knowlton, 3255.
lesquereuxii Kn. Knowlton, 3255.
lyelli Mantel, Dawson, 1434.
oregonense Newb., Newberry, 4083.
robustum Newb., Newberry, 4083.
rogersii (Bunbury) Schimper, Ward, 5857.
texense n. sp., Fontaine, 1846, 1847.
virginicum Fontaine, Fontaine, 1850.
wyomingense Lesq., Newberry, 4083.
 sp., Knowlton, 3246.
 sp.?, Newberry, 4083.
- Equus* Linn., Cope, 1104.
complicatus Leidy, Woolman, 6474.
cummingsii Cope, Cope, 1087.
eurystylus Cope, Cope, 1087.
excelsus, Cope, 1074, 1097.
fraternus Leidy, Cope, 1098, 1104.
intermedius n. sp., Cope, 1098.
major Dekay, Cope, 1087.
minutus Cope, Cope, 1087.
phlegon, Hay, 2384.
scotti n. sp., Gidley, 1981.
semiplicatus Cope, Cope, 1087.
simplicidens n. sp., Cope, 1084, 1087.
tau Owen, Cope, 1087.
- Erato emmonsii* n. sp., Whitfield, 6101.
maugeriæ Gray, Dall, 1259.
- Eremopteris bolibata* n. sp., White, 6050.
cheathamii Lx., White, 6052.
decipiens (Lx.), White, 6052.
dissecta Lx., White, 6052.
lincolniensis n. sp., White, 6052.
missouriensis Lx., White, 6050.
- Eretmocrinus* Lyon and Cass, Wachsmuth and Springer, 5765a.
attenuatus, Whitfield, 6098.
calyculoides (Hall), Keyes, 3061.
calyculoides (Hall), Wachsmuth and Springer, 5765a.
calyculoides, var. *nodosus* W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
elio (Hall), Wachsmuth and Springer, 5765a.
elodia Hall, Wachsmuth and Springer, 5765a.
commendabilis n. sp., Miller and Gurley, 3997d.
corbulis Hall, Keyes, 3061.
corbulis (Hall), Wachsmuth and Springer, 5765a.
coronatus (Hall), Wachsmuth and Springer, 5765a.

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- Eretmocrinus depressus* Keyes, Keyes, 3061.
depressus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
expansus Keyes, Keyes, 3061.
granuliferus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
intermedius W. and Sp., Wachsmuth and Springer, 5765a.
leucosia (Hall), Wachsmuth and Springer, 5765a.
lyonanus n. sp., Miller, 3992.
lyonanus n. sp., Miller and Gurley, 3997a.
magnificus Lyon and Cass, Wachsmuth and Springer, 5765a.
matuta (Hall), Wachsmuth and Springer, 5765a.
minor W. and Sp., (nov. spec.) Wachsmuth and Springer, 5765a.
neglectus Meek and Worthen, Wachsmuth and Springer, 5765a.
nodosus n. sp., Rowley, 4677.
praggravis n. sp., Miller, 3995.
praggravis S. A. Miller, Wachsmuth and Springer, 5765a.
ramulosus (Hall), Wachsmuth and Springer, 5765a.
remibrachiatus (Hall), Wachsmuth and Springer, 5765a.
remibrachiatus, var. *expansus* W. and Sp. (nov. var.) Wachsmuth and Springer, 5765a.
rugosus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
verneuilianus (Shumard), Keyes, 3061.
- Eridonychia apicalis* n. gen. et sp., Ulrich, 5535.
crenata n. sp., Ulrich, 5535.
paucicostata n. sp., Ulrich, 5535.
- Eridopora*, Simpson, 4983.
 (?) sp., Girty, 2038.
- Eridotrypa* n. gen., Ulrich, 5537.
exigua n. sp., Ulrich, 5537.
mutabilis n. sp., Ulrich, 5537.
minor n. var., Ulrich, 5537.
- Erinnys* Salter, Matthew, 3789.
breviceps, Ang., Matthew, 3789.
- Eripachya? paludinaformis* n. sp., Whitfield, 6097.
- Eriphyla galvestonensis* n. sp., Harris, 2309.
Eriptychius americanus n. sp., Walcott, 5780.
Eriphinus dormitus, Scudder, 4890.
- Erisocrinus megalobrachus* n. sp., Beede, 394.
toddanus n. sp., Butts, 672.
- Erithizon? dorsatum* Linn., Cope, 1104.
- Erpetocypris lata* n. sp., Chapman, 869.
merriamiana, n. sp., Chapman, 869.
- Ervilia* Turton, Dall, 1272.
chipolana n. sp., Dall, 1272.
lata n. sp., Dall, 1272.
oregonensis n. sp., Dall, 1272.
planata n. sp., Dall, 1272.
polita n. sp., Dall, 1272.
triangularis n. sp., Dall, 1272.
- Erycina Lamarck*, Dall, 1281.
carolinensis n. sp., Dall, 1281.

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- Erycina chipolana* n. sp., Dall, 1281.
curtidens n. sp., Dall, 1281.
fabulina n. sp., Dall, 1281.
kurtzii Dall, 1281.
marylandica Glenn, Dall, 1281.
pliatuka n. sp., Dall, 1281.
mdosa n. sp., Dall, 1281.
(Pseudopythina?) americana n. sp., Dall, 1281.
(Pseudopythina) protrata n. sp., Dall, 1281.
Eryeus brevicollis, Scudder, 4890.
Eryma dawsoni, H. Woodw. n. sp., Woodward, 6442.
Eryops Cope, Williston, 6255.
Escharopora Hall, Ulrich, 5537.
angularis n. sp., Ulrich, 5537.
confluens n. sp., Ulrich, 5537.
? limitaris n. sp. or var., Ulrich, 5537.
ramosa? Ulrich, var. or n. sp., Whiteaves, 6087.
subrecta Ulrich, Ulrich, 5557.
Eschatius condens Cope, Wortman, 6493.
Esperites? sp., Merrill, 3969.
Esteria, Jones, 2936.
dawsoni, Dawson, 1454.
Estonioceras, Hyatt, 2819.
biangulatum n. sp., Hyatt, 2819.
perforatum, Hyatt, 2819.
Etheridgina Ehlert, Hall and Clarke, 2260.
Etoblatina Scudder, 4898.
accubita n. sp., Scudder, 4898.
angusta n. sp., Scudder, 4898.
aperta n. sp., Scudder, 4898.
arcta n. sp., Scudder, 4898.
benedicta n. sp., Scudder, 4898.
clarkii, Scudder, 4892, 4898.
clintoniana n. sp., Scudder, 4898.
communis n. sp., Scudder, 4898.
deanensis n. sp., Scudder, 4898.
debilis n. sp., Scudder, 4898.
defossa n. sp., Scudder, 4898.
detecta n. sp., Scudder, 4898.
eakiniana n. sp., Scudder, 4898.
exigua n. sp., Scudder, 4898.
exilis, Scudder, 4892, 4898.
expugnata n. sp., Scudder, 4898.
expulsata n. sp., Scudder, 4898.
expuncta n. sp., Scudder, 4898.
executa n. sp., Scudder, 4898.
exensa n. sp., Scudder, 4898.
fascinata, Scudder, 4898.
fossa n. sp., Scudder, 4898.
funeraria n. sp., Scudder, 4898.
funesta n. sp., Scudder, 4898.
gorhami, Scudder, 4892, 4898.
gracilentia n. sp., Scudder, 4898.
gratiosa n. sp., Scudder, 4898.
hastata n. sp., Scudder, 4898.
hilliana n. sp., Scudder, 4898.
hustoni, Scudder, 4898.
illustris, Scudder, 4892, 4898.
immolata n. sp., Scudder, 4898.
imperfecta n. sp., Scudder, 4898.
invisa n. sp., Scudder, 4898.

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- Etoblatina jeffersoniana* n. sp., Scudder, 4898.
lata n. sp., Scudder, 4898.
latebricola n. sp., Scudder, 4898.
macerata n. sp., Scudder, 4898.
macilentia n. sp., Scudder, 4898.
maetata n. sp., Scudder, 4898.
maledicta n. sp., Scudder, 4898.
marginata, Scudder, 4898.
mazona, Scudder, 4898.
mediana, Scudder, 4898.
mucronata n. sp., Scudder, 4898.
obatra n. sp., Scudder, 4898.
occulta n. sp., Scudder, 4898.
ovata n. sp., Scudder, 4898.
patiens n. sp., Scudder, 4898.
prædileis n. sp., Scudder, 4898.
ramosa n. sp., Scudder, 4898.
reclivata n. sp., Scudder, 4898.
reliqua, Scudder, 4892, 4898.
sagittaria n. sp., Scudder, 4898.
scholfieldi, Scudder, 4892, 4898.
secreta n. sp., Scudder, 4898.
stipata, Scudder, 4898.
strigosa, Scudder, 4898.
tenuis, Scudder, 4898.
variegata, Scudder, 4898.
willsiana n. sp., Scudder, 4898.
sp. undet., Scudder, 4898.
Eucalathis Fischer and Ehlert, Hall and Clarke, 2264.
Eucalyptocrinus Goldfuss, Weller, 6002.
asper n. sp., Weller, 6002.
crassus Hall, Weller, 6002.
depressus S. A. Miller, Weller, 6002.
egani S. A. Miller, Weller, 6002.
elipticus n. sp., Miller, 3992.
elrodi n. sp., Miller, 3992.
gorbyi n. sp., Miller, 3992.
inornatus n. sp., Weller, 6002.
lindahli n. sp., Wachsmuth and Springer, 5765.
milligana n. sp., Miller and Gurley, 4001.
magnus Worthen, Weller, 6002.
nodulosus n. sp., Weller, 6002.
obconicus Hall, Weller, 6002.
ornatus Hall, Weller, 6002.
rotundus S. A. Miller, Weller, 6002.
subglobosus n. sp., Miller, 3992.
turbinatus S. A. Miller, Weller, 6002.
wortheni n. sp., Miller and Gurley, 3997a.
Eucalyptus, Ward, 5854.
(?) angustifolia n. sp., Newberry, 4080.
(?) attenuata n. sp., Newberry, 4080.
dakotensis n. sp., Lesquereux, 3470.
geinitzi Heer, Lesquereux, 3470.
geinitzi Heer, Newberry, 4080.
gouldii n. sp., Ward, 5852.
(?) nervosa n. sp., Newberry, 4080.
nervosa Newb., Hollick, 2696.
(?) parvifolia n. sp., Newberry, 4080.
Eucheilodon creno-carinatus, Aldrich, 74.
creno-carinata Heilp., Harris, 2311.
Euchirosaurus, Case, 767.
Euchodus amicrodus n. sp., Stewart, 5240.
parvus n. sp., Stewart, 5240.

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- Eucladocerinus Meek (emended W. and Sp.), Wachsmuth and Springer, 5765a.
 millebrachiatus W. and Sp., Wachsmuth and Springer, 5765a.
 millebrachiatus var. immaturus W. and Sp., Wachsmuth and Springer, 5765a.
 montanensis Meek, Wachsmuth and Springer, 5765a.
 pleuroviminus (White), Keyes, 3061.
 pleuroviminus White, Wachsmuth and Springer, 5765a.
 praenuntius W. and Sp., Wachsmuth and Springer, 5765a.
 tuberosus (Hall), Wachsmuth and Springer, 5765a.
 Euclastes (?) sp., Clark, 906.
 Euconospira planibasalis n. sp., Ulrich and Scofield, 5541.
 Eueryptus n. gen., Scudder, 4890.
 sectus, Scudder, 4890.
 Eucymba ocalana Dall, Dall, 1259.
 see Cymba (Eucymba) Dall, Dall, 1259.
 Eudesella Munier-Chalmas, Hall and Clarke, 2264.
 Eudomus n. gen., Scudder, 4890.
 pinguis, Scudder, 4890.
 robustus, Scudder, 4890.
 Eugenia primæva n. sp., Lesquereux, 3470.
 Eugnamptus grandævus, Scudder, 4890.
 Eulima conoidea Kurtz & Stimpson, Dall, 1259.
 egregia n. sp., Guppy and Dall, 2214.
 exilis Gabb, Harris, 2316.
 ? peracuta Meek and Worthen, Keyes, 3062.
 (Leiostraca) rectiuscula Dall, Dall, 1259.
 (Liostraca) nobilis n. sp., Guppy and Dall, 2214.
 (Subularia) cainei n. sp., Harris, 2316.
 Eulimella ? funicula Meek, Herrick and Johnson, 2465.
 ? funicula Meek, Stanton, 5191.
 tenua Gabb, Harris, 2316.
 Eulithota fasciculata Haeckel, Walcott, 5811.
 Eumetria Hall, Hall and Clarke, 2261, 2264.
 altirostris (White), Weller, 6006.
 perstrialis n. sp., Rowley, 4677a.
 (?) polypleura, Lane, 3400.
 verneuilliana Hall, Girty, 2038.
 verneuillana Hall, Weller, 5986.
 Eunema brevispera n. sp., Whiteaves, 6074.
 clathratulum n. sp., Whiteaves, 6074.
 cretaceum n. sp., Whiteaves, 6085.
 speciosum n. sp., Whiteaves, 6074.
 subspinosum n. sp., Whiteaves, 6074.
 Euomphalus Sowerby 1812, Berkeley, 429.
 circinatus Whiteaves, Whiteaves, 6080.
 inornatus Whiteaves, Whiteaves, 6080.
 (circularis ? Phillips, var.) subtrigonalis, Whiteaves, 6074.
 n. sp., Girty, 2037.
 Eupachyerinus harii n. sp., Miller, 3992.
 ? harii Miller, Keyes, 3061.
 magister Miller and Gurley, Keyes, 3061.
 magister, Miller and Gurley, 3991.
 orbicularis, Whitfield, 6098.
 parvus n. sp., Miller and Gurley, 3997a.

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Genera and species described—Continued.

- Eupachyerinus sphaeralis n. sp., Miller and Gurley, 3991.
 tuberculatus Meek and Worthen, Girty, 2037.
 tumulosus n. sp., Miller, 3992.
 verrucosus (White and St. John), Keyes, 3061.
 sp., Girty, 2037.
 Euphanerops longævus, Woodward, 6437.
 Euphansia, Beecher, 366.
 Euphemus, Girty, 2037.
 Euphemus McCoy, Ulrich and Scofield, 5541.
 (?) sp., Weller, 5994.
 Euphoberia atava n. sp., Matthew, G. F., 3759.
 Eupleura caudata Say, Dall, 1259.
 var. sulcidentata Dall, Dall, 1259.
 miocenica n. sp., Dall, 1259.
 muriciniformis Broderip, Dall, 1259.
 Euprotogonia Cope, Osborn and Earle, 4191.
 puercensis Cope, Matthew, 3801.
 minor n. sp. Matthew, 3801.
 puercensis Cope, Osborn and Earle, 4191.
 Eupsammia conradi, nom. nov., Vaughan, 5735.
 elaborata (Conrad), Vaughan, 5722, 5735.
 (?) pileolus (Conrad), Vaughan, 5722.
 Euractinella Bittner, Hall and Clarke, 2264.
 Eurotogonia Cope, Matthew, 3800.
 minor n. sp., Matthew, 3800.
 puercensis (Cope), Matthew, 3800.
 Eurychilina Ulrich, Ulrich, 5540.
 reticulata Ulrich, Ulrich, 5540.
 var. incurva n. var., Ulrich, 5540.
 (?) subæquata n. sp., Ulrich, 5540.
 subradiata Ulrich, Ulrich, 5540.
 (?) symmetrica n. sp., Ulrich, 5540.
 ventrosa n. sp., Ulrich, 5540.
 Eurydictya, Simpson, 4983.
 Eurydictya Ulrich, Ulrich, 5537.
 multipora ? Hall sp., Ulrich, 5537.
 Eurmartus latus n. sp., Matthew, 3768.
 (?) spinulosus n. sp., Matthew, 3768.
 sp. ?, Matthew, 3768.
 Eurymya n. gen., Ulrich, 5539.
 plana Hall, Ulrich, 5539.
 Eurypterella ornata Matt., Matthew, G. F., 3758.
 Eurypterus eriensis, Whitfield, 6099.
 kokomoensis n. sp., Miller and Gurley, 4001.
 Eurytomites gibbosum n. sp., Hyatt, 2819.
 pilatus n. sp., Whiteaves, 6083, 6087.
 rotundus, Hyatt, 2819.
 undatum, Hyatt, 2819.
 undatus Enmons var. occidentalis Hall 1861, Clarke, 953.
 virginiana, Hyatt, 2819.
 Euspilopora, Simpson, 4983.
 Euthria dubia Ald., Harris, 2316.
 ? fragilis n. sp., Whitfield, 6097.
 Eutrephoceras n. gen., Hyatt, 2819.
 dekayi, Hyatt, 2819.
 faxoense n. sp., Hyatt, 2819.
 imperialis, Hyatt, 2810.
 christyi (Shumard), Wachsmuth and Springer, 5765a.

Paleontology—Continued.

Genera and species described—Continued.

- Eutropheoceras W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
 christyi, var. trochiscus (Meek and Worthen), Wachsmuth and Springer, 5765a.
 lovei W. and Sp., Wachsmuth and Springer 5765a.
 planodiscus (Hall), Wachsmuth and Springer, 5765a.
 Evactinopora, Simpson, 4983.
 radiata Meek and Worthen, Keyes, 3062.
 Evarthrus tenebrius n. sp., Scudder, 4900.
 Evopes n. gen., Scudder, 4890.
 occubatus, Scudder, 4890.
 veneratus, Scudder, 4890.
 Excipulites callipterides (Schimp.) Kidst., White, 6050.
 Exilia pergracilis, Harris, 2310, 2316.
 Exiteloceras n. gen., Hyatt, 2819.
 Exogyra, Say, 4813.
 americana Marcou, Cragin, 1115.
 columbella Meek, Cragin, 1115.
 columbella Meek, Stanton, 5191.
 costata, Say, 4813.
 costata Say, Harris, 2315.
 drakei n. sp., Cragin, 1115.
 ferox n. sp., Cragin, 1115.
 hilli n. sp., Cragin, 1115.
 lavinuscula Roemer, Cragin, 1115.
 lavinuscula Roemer, Logan, 3554.
 lavinuscula Roemer, Stanton, 5191.
 paupercula n. sp., Cragin, 1115.
 plexa n. sp., Cragin, 1115.
 ponderosa Roemer, Logan, 3554.
 ponderosa Roemer, Stanton, 5191.
 potosina n. sp., Aguilera, 57.
 suborbiculata Lamarck (sp.), Stanton, 5191.
 texana, Stanton, 5197.
 weatherfordensis n. sp., Cragin, 1115.
 Exomias obdurefactus, Scudder, 4890.
 Fabella oblonga n. sp., Aldrich, 74.
 oblonga, Harris, 2313.
 Fagophyllum nervosum n. sp., Dawson, 1436.
 retosum n. sp., Dawson, 1436.
 Fagus cretacea Newb., Newberry, 4083.
 orbiculatum n. sp., Lesquereux, 3470.
 undulata n. sp., Knowlton, 3255.
 Fasciolaria distans Lamarek, Dall, 1259.
 (distans subsp?)
 apicina Dall, Dall, 1259.
 monocingulata Dall, Dall, 1259.
 rhomboidea Rogers, Dall, 1259.
 elegans Emmons, Dall, 1259.
 hercules Whitfield, 6097.
 propinqua n. sp., Whitfield, 6097.
 sampsoni n. sp., Whitfield, 6097.
 (sparrowi var.?) acuta Emmons, Dall, 1259.
 tulipa Linné, Dall, 1259.
 walcotti n. sp., Stanton, 5191.
 woodi, Whitfield, 6101.
 (Cryptorhytis) utahensis Meek (sp.), Stanton, 5191.
 Fasciolaris sp., Logan, 3555.
 Favia merriami n. sp., Vaughan, 5735.
 taxana n. sp., Cragin, 1115.

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Genera and species described—Continued.

- Favicella, Simpson, 4983.
 Favosites Lamarek, Grabau, 2086.
 Favosites Lamarek, Lambe, 3374.
 Favosites Lam., Say, 4813.
 alpenensis, Lambe, 3374.
 argus Hall, Grabau, 2086.
 aspera d'Orbigny, Lambe, 3374.
 basaltica Goldfuss (sp.), Lambe, 3374.
 billingsii Rominger, Lambe, 3374.
 canadensis Billings (sp.), Lambe, 3374.
 cervicornis Milne-Edwards and Haime, Lambe, 3374.
 ciausa Rominger, Lambe, 3374.
 clavatus, n. sp., Greene, 2162d.
 conicus Hall, Girty, 2032, 2034, 2037.
 conradi n. sp., Girty, 2034.
 digitata Rominger, Lambe, 3374.
 favosa? (Goldfuss), Keyes, 3061.
 forbesi var. occidentalis, Girty, 2032.
 gaspensis n. sp., Lambe, 3374.
 globulus n. sp., Greene, 2162.
 gothlandica Lamarek, Lambe, 3374.
 hamiltoniae Hall, Grabau, 2086.
 helderbergiae Hall, Girty, 2034.
 hemispherica (Troost), Keyes, 3061.
 hemispherica Milne-Edwards and Haime, Lambe, 3374.
 hemisphericus, Girty, 2032.
 hisingeri Milne-Edwards and Haime, Lambe, 3374.
 niagarensis Hall, Lambe, 3374.
 nitella Winchell, Lambe, 3374.
 polymorpha (Goldfuss) Billings, Whiteaves, 6080.
 prolificus Billings, Whiteaves, 6087.
 radiciformis Rominger, Lambe, 3374.
 rotundituba n. sp., Greene, 2162.
 rotundus n. sp., Greene, 2162d.
 spinigerus, Girty, 2032.
 striata, Say, 4813.
 turbinata Billings, Lambe, 3374.
 sp., Girty, 2038.
 Favositidae, Beecher, 353.
 Fayolia sp., White, 6052.
 Feistmantelia oblonga Ward, n. sp., Fontaine, 1850.
 Felis eyra Desm., Cope, 1104.
 hillanus Cope, Cope, 1087.
 proboiscidia, Cope, 1087.
 Fenestella Lonsdale, Girty, 2038.
 Fenestella Miller, Grabau, 2086.
 Fenestella, Simpson, 4983.
 albuquerqueana n. sp., Herrick and Bendrat, 2464.
 biseriata Hall (?), Clarke, 971.
 dentata n. sp., Rogers, 4656.
 emaciata Hall, Grabau, 2086.
 hexagonalis n. sp., Rogers, 4656.
 kansasensis n. sp., Rogers, 4656.
 missouriensis n. sp., Rogers, 4656.
 ovatipora n. sp., Rogers, 4656.
 planiramosa Hall, Grabau, 2086.
 rudis Ulrich, Keyes, 3062.
 shumardi Proat, Keyes, 3062.
 Fenestralia, Simpson, 4983.

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Genera and species described—Continued.

- Fenestrapora, Simpson, 4983.
 Ficophyllum serratum Fontaine, Fontaine, 1850.
 Ficus alaskana Newberry, Knowlton, 3232.
 (?) alaskana Newb., Newberry, 4083.
 aligera n. sp., Lesquereux, 3470.
 artocarpoides (?) Lx., Hollick, 2708.
 asarifolia Ett., Knowlton, 3264.
 asarifolia minor Lesq., Newberry, 4083.
 austiniiana n. sp., Lesquereux, 3472.
 berthoudi n. sp., Lesquereux, 3470.
 (?) condoni Newb., Newberry, 4083.
 contorta n. sp., Dawson, 1436.
 crassipes Heer, Lesquereux, 3470.
 dalmatica Ett., Knowlton, 3264.
 deflexa n. sp., Lesquereux, 3470.
 deformata n. sp., Knowlton, 3255.
 densifolia n. sp., Knowlton, 3255.
 glascena, Lesq., Lesquereux, 3470.
 hadjdenii, Lesq., Kirchner, 3187.
 haguei n. sp., Knowlton, 3255.
 harrisiana n. sp., Hollick, 2708.
 hesperia n. sp., Knowlton, 3262, 3264.
 inaequalis n. sp., Lesquereux, 3470.
 incompleta n. sp., Knowlton, 3264.
 irregularis Lx., Knowlton, 3264.
 krausiana Heer, Hollick, 2696.
 krausiana Heer, Lesquereux, 3470.
 laeustris n. sp., Knowlton, 3263.
 laurophyllidia n. sp., Dawson, 1436.
 lanceolata-acuminata Ett., Lesquereux, 3470.
 lignitum Lx., Knowlton, 3264.
 macrophylla n. sp., Lesquereux, 3470.
 magnolifolia Lesq., Dawson, 1436.
 magnoliaefolia Lesq., Lesquereux, 3470.
 melanophylla n. sp., Lesquereux, 3470.
 membranacea Newberry, Knowlton, 3232.
 membranacea Newb., Newberry, 4083.
 missouriensis n. sp., Knowlton, 3264.
 montana n. sp., Knowlton, 3264.
 mudgei n. sp., Lesquereux, 3470.
 multinervis Heer, Knowlton, 3264.
 myricoides Hollick n. sp., Newberry, 4080.
 ovata n. sp., Newberry, 4080.
 penitus?, Whitfield, 6097.
 planicostata Lx., Hollick, 2708.
 planicostata? Lx., Knowlton, 3264.
 planicostata Lesq.?, Newberry, 4083.
 populoides n. sp., Knowlton, 3264.
 praecursor n. sp., Lesquereux, 3470.
 precedens n. sp., Whitfield, 6097.
 problematica n. sp., Knowlton, 3264.
 proteoides n. sp., Lesquereux, 3470.
 reticulata (Lesq.) Hollick, Newberry, 4083.
 rhamnoides n. sp., Knowlton, 3264.
 rotundata n. sp., Dawson, 1436.
 shastensis (?) Lesq., Dawson, 1448.
 shastensis, Knowlton, 3235.
 cf. sordida Lesquereux, Knowlton, 3262.
 sordida, Knowlton, 3235.
 speciosissima Ward, Knowlton, 3264.
 squarrosa n. sp., Knowlton, 3264.
 sternbergii n. sp., Lesquereux, 3470.
 tillaeifolia Al. Br., Knowlton, 3264.

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Genera and species described—Continued.

- Ficus trinervis n. sp., Knowlton, 3264.
 undulata n. sp., Lesquereux, 3470.
 ungeri Lx., Knowlton, 3246, 3255.
 wardii n. sp., Knowlton, 3264.
 wellingtonae n. sp., Dawson, 1436.
 willisiana n. sp., Hollick, 2672.
 woolconi Newb. (?), Hollick, 2696.
 woolsoni n. sp., Newberry, 4092.
 sp., Knowlton, 3255, 3262.
 Fissurella alabama n. sp., Harris, 2316.
 bipunctata n. sp., Stanton, 5199.
 griseomi, Whitfield, 6101.
 mediavia n. sp., Harris, 2310.
 redimicula, Say, 4813.
 Fissuridea callosacensis n. sp., Dall, 1259.
 carditella n. sp., Dall, 1259.
 carolinensis Conrad, Dall, 1259.
 chipolana n. sp., Dall, 1259.
 nucula n. sp., Dall, 1259.
 Fistulana (Bruguiere) Cuvier, Dall, 1272.
 ocalana n. sp., Dall, 1272.
 Fistulicella n. gen., Simpson, 4983.
 Fistulicella Simpson, Grabau, 2086.
 plana Hall, Grabau, 2086.
 Fistulipora, Simpson, 4983.
 Fistuliporella n. gen., Simpson, 4983.
 Fistuliporida n. gen., Simpson, 4983.
 Fistuliporina n. gen., Simpson, 4983.
 Fistuliporina Simpson, Grabau, 2086.
 digitata (Hall), Grabau, 2086.
 micropora (Hall), Grabau, 2086.
 minuta (Rominger), Grabau, 2086.
 scrobiculata (Hall), Grabau, 2086.
 segregata (Hall), Grabau, 2086.
 Flabellina cordata Reuss, Bagg, 150.
 sagittaria (Lea), Bagg, 150.
 Flabelliporella, Simpson, 4983.
 Flabellum californicum n. sp., Vaughan, 5735.
 conoideum n. sp., Vaughan, 5735.
 var. matthewsensis, n. var., Vaughan, 5735.
 euneiforme Lonsdale, Vaughan, 5735.
 var. acutiforme n. var., Vaughan, 5735.
 var. fragile n. var., Vaughan, 5735.
 var. magnocostatum n. var., Vaughan, 5735.
 var. pachyphyllum Gabb and Horn, Vaughan, 5735.
 var. walesi Conrad, Vaughan, 5735.
 flabellum sp., Vaughan, 5735.
 johnsoni n. sp., Vaughan, 5735.
 lerchi n. sp., Vaughan, 5735.
 mortoni n. sp., Vaughan, 5735.
 remondianum Gabb, Stanton, 5198.
 Gabb, Vaughan, 5735.
 rhomboideum n. sp., Vaughan, 5735.
 Fletcheria Milne-Edwards and Haime, Lambe, 3374.
 incerta Billings (sp.), Lambe, 3374.
 Fontainea n. gen., Newberry, 4080.
 grandifolia n. sp., Newberry, 4080.
 Foordiceras n. gen., Hyatt, 2816.
 Forbesoerinus agassizi Hall, Keyes, 3061.
 greenei n. sp., Miller and Gurley, 4000.
 jerseyensis n. sp., Miller and Gurley, 3999.

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Genera and species described—Continued.

- Forbesocrinus macadamsi* n. sp., Miller and Gurley, 4000.
multibrachiatus Lyon and Casseday, Miller and Gurley, 3999.
pyriformis n. sp., Miller and Gurley, 3997a.
speciosus n. sp., Miller and Gurley, 3991.
washingtonensis n. sp., Miller and Gurley, 4000.
Fornax ledensis, Scudder, 4896.
Fossaris (Gottoina) mundulus n. sp., Guppy and Dall, 2214.
(Isapis) anomala C. B. Adams, Dall, 1259.
Fraxinus affinis Newb., Newberry, 4083.
denticulata Heer, Knowlton, 3255.
Heer?, Newberry, 4083.
herendeensis n. sp., Knowlton, 3232.
integrifolia Newb., Newberry, 4083.
johnstrupi (?) Heer, Hollick, 2696.
quadrangulata, Dawson, G. M., 1418.
Michx., Penhallow, 4334.
wrightii n. sp., Knowlton, 3255.
Frencloopsis gracilis n. sp., Newberry, 4080.
hoheneggeri, Fontaine, 1846.
(Ett.) Schenk, Fontaine, 1847.
(Ett.) Schenk (?), Newberry, 4080.
varians n. sp., Fontaine, 1846, 1847.
Frondeularia alata d'Orbigny, Bagge, 100.
angusta (Nilsson) var. *dimidia* Bagge, 150.
var. dimidia, Bagge, 144.
archiaciana d'Orbigny, var. *strigillata* n. var., Bagge, 150.
elarki, n. sp., Bagge, 144, 150.
gaultina Reuss, Bagge, 150.
inversa Reuss, Bagge, 144, 150.
laureola Reuss, Bagge, 144, 150.
major Bornemann, Bagge, 150.
ovata Roemer, Bagge, 150.
pulehella Karrer, Bagge, 150.
reticulata (Reuss), Bagge, 150.
verneilina d'Orbigny, Bagge, 150.
Fucus digitatus n. sp., Penhallow, 4336.
Fulgur argutus n. sp., Clark, 901.
canaliculatus, Say, 4813.
carica, Woolman, 6471.
(?) dallianum n. sp., Harris, 2310.
echinatum n. sp., Dall, 1259.
elicans, Say, 4813.
eocene n. sp., Aldrich, 73.
maximum Conrad, Dall, 1259.
perversum Linné, Dall, 1259.
pyrum var. *apynotum*, Dall, 1259.
(pyrum var.?) planulatum n. sp., Dall, 1259.
sealarispira Conrad, Dall, 1259.
spiniger Conrad, Dall, 1259.
stellatum n. sp., Dall, 1259.
Fulguroficus argutus Clark, Clark, 906.
triserialis Whitf., Harris, 2316.
Fulcia minor n. sp., Shnfeldt, 4960.
Fusispira Hall, Ulrich and Scofield, 5541.
angusta n. sp., Ulrich and Scofield, 5541.
var. subplana n. var., Ulrich and Scofield, 5541.

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Genera and species described—Continued.

- Fusispira convexa* n. sp., Ulrich and Scofield, 5541.
inflata Meek and Worthen, Ulrich and Scofield, 5541.
intermedia n. sp., Ulrich and Scofield, 5541.
nobilis n. sp., Ulrich and Scofield, 5541.
planulata n. sp., Ulrich and Scofield, 5541.
schucherti, n. sp., Ulrich and Scofield, 5541.
subbrevis n. sp., Ulrich and Scofield, 5541.
subfusiformis Hall, Ulrich and Scofield, 5541.
sulcata n. sp., Ulrich and Scofield, 5541.
Fusoficula juvenis Whitf., Harris, 2315, 2316.
Fusulina cylindrica Fischer, Keyes, 3061.
cylindrica, Smith, 5001.
Fusus angularis n. sp., Whitfield, 6097.
ballista n. sp., Dall, 1259.
bastropensis, n. sp., Harris, 2307.
bellanus n. sp., Harris, 2311, 2316.
burnsii Dall, Dall, 1259.
calocensis Heilprin, Dall, 1259.
coastatus, Say, 4813.
eocenicus n. sp., Whitfield, 6097.
equalis Emmons, Dall, 1259.
fragilis Wagner, Dall, 1273.
gabbii Meek, Herrick and Johnson, 2465.
gabbii Meek, Stanton, 5191.
graysonensis n. sp., Cragin, 1115.
harrisi n. sp., Aldrich, 73.
harrisi Ald., Harris, 2315.
hector n. sp., Whitfield, 6097.
var. multilineatus n. var., Whitfield, 6097.
holmdelensis n. sp., Whitfield, 6097.
hubbardanus n. sp., Harris, 2310.
insectoides n. sp., Harris, 2311.
interstriatus Heilp., Harris, 2316.
marnochi, Aldrich, 74.
meyeri var., Harris, 2310.
(?) molri n. sp., Aldrich, 73.
molri, Harris, 2310.
montgomeriensis n. sp., Vaughan, 5722.
mortoni Lea, var., Harris, 2311.
ostrarupis n. sp., Harris, 2307, 2310.
ottonis Ald., Harris, 2716.
paucicostatus n. sp., Whitfield, 6097.
perobesus n. sp., Whitfield, 6097.
pluricostatus n. sp., Whitfield, 6097.
quercollis n. sp., Harris, 2310.
quinquespinus n. sp., Dall, 1259.
rugatus Ald., Harris, 2311, 2316.
shumardi H. and M., Herrick and Johnson, 2465.
shumardi H. and M., Stanton, 5191.
siphus n. sp., Aldrich, 73.
subfilosus n. sp., Aldrich, 74.
subtenuis Heilp., Harris, 2316.
supraplanus n. sp., Cooper, 1071.
tortilis, Harris, 2310.
umbilicatus Wagner, Dall, 1273.
(?) whitfieldi n. sp., Aldrich, 73.
(Buccinofusus) harrisi Ald., Harris, 2316.
(Chrysodomus?) nexilis n. sp., Dall, 1259.

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Genera and species described—Continued.

- Fusus* (*Levifusus*) *trabeatus* Conrad, Clark, 906.
 (*Neptunea*?) *staminea*, Whitfield, 6097.
 venenatus n. sp., Stanton, 5191.
 (*Strepsidura*) *perlatus* Conrad, Clark, 906.
 (*Urosalpinx*?) *multicostatus* n. sp., Stanton, 5191.
 sp., Clark, 906.
 sp., Logan, 3555.
 sp. undet., Dall, 1259.
Galeocерdo contortus Gibbs, Clark, 906.
Galeomma, Turton, Dall, 1281.
Galerita marshii n. sp., Scudder, 4900.
Galerucella picca, Scudder, 4896.
Galesaurus, Case, 768.
Galla quercina n. sp., Lesquereux, 3470.
Gallicus n. gen., Hay, 2380.
Gallinuloides wyomingensis, n. gen. et sp., Eastman, 1610.
 wyomingensis, Eastman, Lucas, 3590.
Ganorhynchus oblongus n. sp., Cope, 1082.
Gastroceras Hyatt, Smith, 5046.
 branneri n. sp., Smith, 5046.
 entogonum?, Hyatt, 2816.
 excelsum Meek, Smith, 5046.
 globulosum Meek and Worthen, Smith, 5046.
 marianum Verneul, Smith, 5046.
 sp. undet., Smith, 5046.
Gastrochana cimitariopsis n. sp., Harris, 2310.
 cuneiformis Spengler, Dall, 1272.
 gainesensis n. sp., Harris, 2310.
 larva Con., Aldrich, 73.
 ovata Sowerby, Dall, 1272.
 sp., Clark, 906.
 (*Spengler*) Cuvier, Dall, 1272.
 (*Spengleria*) Tryon, Dall, 1272.
 var. *rotunda* Dall, 1272.
Gaudryina pupoides d'Orbigny, Bagg, 150.
 pupoides d'Orbigny, Woodward and Thomas, 6433.
Gaza? *aldrichiana* n. sp., Harris, 2307.
Gazaerinus n. gen., Miller, 3995.
Gazaerinus S. A. Miller, Weller, 6002.
 inornatus n. sp., Miller, 3995.
 major, n. sp., Weller, 6002.
 minor, n. sp., Weller, 6002.
Geinitzia biformis Lx. sp., Knowlton, 3264.
 formosa Heer, Hollick, 2698.
 formosa Heer, Knowlton, 3264.
 formosa Herr (?), Newberry, 4880.
 jenneyi n. sp., Fontaine, 1850.
 longifolia Lx. sp., Knowlton, 3264.
Gennæoerinus W. and S., Grabau, 2086.
 W. and Sp., Wachsmuth and Springer, 5765a.
 eucharis (Hall), Grabau, 2086.
 eucharis (Hall), Wachsmuth and Springer, 5765a.
 kentuckiensis (Shumard), Wachsmuth and Springer, 5765a.
 nyssa (Hall), Grabau, 2086.
 trijugis Miller, Keyes, 3061.
Geodia (?) *austini* n. sp., Merrill, 3969.
 (?) *cretacea* n. sp., Merrill, 3969.

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Genera and species described—Continued.

- Geodia* (?) *hilli* n. sp., Merrill, 3969.
 (?) *irregularis* n. sp., Merrill, 3969.
 spini-curvata n. sp., Merrill, 3969.
 (?) *spinipansata* n. sp., Merrill, 3969.
 texana n. sp., Merrill, 3969.
 (?) *tripunctata* n. sp., Merrill, 3969.
 sp., Merrill, 3969.
Geodromicus abditus n. sp., Scudder, 4900.
 stiricidii, Scudder, 4896.
Gephyroceras Hyatt, Clarke, 960.
 perlatum Hall (sp.), Clarke, 960.
 (?) (*Probeloceras*?) *gunendewa* n. sp., Clarke, 960.
Gerablattina, Scudder, 4898.
 abdicata n. sp., Scudder, 4898.
 apicalis n. sp., Scudder, 4898.
 cassvici n. sp., Scudder, 4898.
 concinna n. sp., Scudder, 4898.
 deducta n. sp., Scudder, 4898.
 diversinervis n. sp., Scudder, 4898.
 eversa n. sp., Scudder, 4898.
 fraterna, Scudder, 4898, 4892.
 ineulta n. sp., Scudder, 4898.
 lata n. sp., Scudder, 4898.
 minima n. sp., Scudder, 4898.
 ovata n. sp., Scudder, 4898.
 perita n. sp., Scudder, 4898.
 permaera n. sp., Scudder, 4898.
 permanenta n. sp., Scudder, 4898.
 radiata n. sp., Scudder, 4898.
 richmondiana n. sp., Scudder, 4898.
 scapularis, Scudder, 4898, 4892.
 uniformis n. sp., Scudder, 4898.
Geracus tubifer n. sp., Matthew, 3774.
Geralophus n. gen., Scudder, 4890.
 antiquarius, Scudder, 4890.
 discessus, Scudder, 4890.
 fossicius, Scudder, 4890.
 lassatus, Scudder, 4890.
 occultus, Scudder, 4890.
 pumiceus, Scudder, 4890.
 repositus, Scudder, 4890.
 retritus, Scudder, 4890.
 saxuosus, Scudder, 4890.
Gerancon Scudder, Scudder, 4895.
 petrorum, Scudder, 4895.
Gerasaphes n. subgen., Clarke, 952.
 ulrichiana n. sp., Clarke, 952.
Gervillea newcombii n. sp., Whiteaves, 6095a.
 propleura (Meek), Stanton, 5191.
Gervillioopsis invaginata (White), Craigin, 1115.
Gibbula americana n. sp., Dall, 1259.
 glandula (Conrad), Clark, 906.
Gilbertsoerinus greenei n. sp., Miller and Gurley, 3997d.
 indianensis n. sp., Miller and Gurley, 3997d.
 spinigerus, Whitfield, 6099.
 typus (Hall), Keyes, 3061.
Ginkgo laramiensis Ward., Knowlton, 3264.
Girvanella labyrinthica, James, 2881.
 richmondensis, James, 2881.
Gladiolites venosus (Hall), Gurley, 2217.
Glæocapsa, Rothpletz, 4667.

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Genera and species described—Continued.

- Glandina truncata var. maecer, Dall, 1259.
 Glassia Davidson, Hall and Clarke, 2261, 2264.
 romingeri, Hall and Clarke, 2268.
 Glassina Hall, Hall and Clarke, 2264.
 Glauconia coalvillensis (Meek), Stanton, 5191.
 Glauconome Goldfuss, Grabau, 2086.
 Simpson, 1983.
 carinata Hall, Grabau, 2086.
 Gleichenia giesekiana Heer (?), Newberry, 4080.
 gracilis Heer (?), Hollick, 2696.
 micromera Heer (?), Newberry, 4080.
 ? obscura n. sp., Knowlton, 3263.
 zippei (Corda) (Heer)?, Fontaine, 1850.
 zippei Herr (?), Newberry, 4080.
 Glenopteris n. gen., Sellards, 4907.
 lineata n. sp., Sellards, 4907.
 lobata n. sp., Sellards, 4907.
 simplex n. sp., Sellards, 4907.
 splendens n. sp., Sellards, 4907.
 sterlingi n. sp., Sellards, 4907.
 Globieoncha (Tylostoma) curta, Whitfield, 6097.
 Globigerina bulloides d'Orbigny, Bagg, 148, 150.
 bulloides, McClung, 3840.
 var. triloba Reuss, Bagg, 150.
 bulloides d'Orbigny, Woodward and Thomas, 6433.
 cambrica n. sp., Matthew, 3761.
 cretacea d'Orbigny, Bagg, 150.
 cretacea d'Orbigny, Woodward and Thomas, 6433.
 didyma n. sp., Matthew, 3761.
 grandis n. sp., Matthew, 3761.
 marginata Reuss, Woodward and Thomas, 6433.
 sacculifera H. B. Brady, Woodward and Thomas, 6433.
 spinosa, McClung n. sp., McClung, 3840.
 turrita n. sp., Matthew, 3761.
 Glomus Jeffreys, Dall, 1272.
 Glossites (?) burlingtonensis n. sp., Weller, 6006, elliptica (Win.), Weller, 6006.
 manitobensis (nom. prov.), Whiteaves, 6096.
 Glossograptus arthraeanthus n. sp., Gurley, 2217.
 Glossotrypa, Simpson, 1983.
 Glossozamites fontaineanus Ward n. sp., Fontaine, 1850.
 Glycymeria alabama n. sp., Harris, 2313.
 Glycymeris Da Costa, Dall, 1272.
 americana Defrance, Dall, 1272.
 duplinensis n. sp., Dall, 1272.
 jamaicensis n. sp., Dall, 1272.
 levis Tuomey and Holmes, Dall, 1272.
 parilis Conrad, Dall, 1272.
 pectinata Gmelin, Dall, 1272.
 pennacea Lamarek, Dall, 1272.
 subovata var. plagia Dall, 1272.
 Glyptoceras cummingsi n. sp., Hyatt, 2816.
 diadema Goldfuss, Smith, 5046.
 ineisum n. sp., Hyats, 2816.
 ineisum Hyatt, Smith, 5050.

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Genera and species described—Continued.

- Glyptoceras spilaricus Martin (?), Weller, 5986.
 Glyphostoma harrisi n. sp., Aldrich, 73.
 johnsoni n. sp., Dall, 1259.
 watsoni n. sp., Dall, 1259.
 Glyptaster milligani n. sp., Miller and Gurley, 4001.
 Glyptocrinus Hall, James, 2889.
 decaedactylus Hall, James, 2889.
 dyeri meek, James, 2889.
 fornshelli S. A. Miller, James, 2889.
 mercereensis n. sp., Miller and Gurley, 3997c.
 miantiensi S. A. Miller, James, 2889.
 sculptus S. A. Miller, James, 2889.
 shafferi S. A. Miller, James, 2889.
 subglobosus Meek, James, 2889.
 Glyptodon, Case, 769.
 Glyptopora plumosa (Prout), Keyes, 3062.
 Glyptostrobis brookensis (Fontaine) Ward, Fontaine, 1850.
 europaeus (Brong.) Heer, Newberry, 4083.
 gracillinus, Knowlton, 3234.
 ? sp., Knowlton, 5264.
 Glyptostyla panamensis n. sp., Dall, 1259.
 Gmelin, Woolman, 6474.
 Gnathodon elathrodon Conrad (emended), Dall, 1265.
 lecontei Conrad, Dall, 1265.
 cuneatus Gray, Dall, 1265.
 johnsoni Dall, Dall, 1265.
 (Rangianella) Conrad, 1265.
 Goldia subelliptica, Stanton, Herrick and Johnson, 2465.
 Gomphoceras Sowerby, Grabau, 2086.
 amphora, Whitfield, 6099.
 clarki n. sp., Miller, 3992.
 hyatti, Whitfield, 6099.
 indianense n. sp., Miller and Faber, 3997.
 lunatum Hall, Grabau, 2086.
 manes Hall, Grabau, 2086.
 Mitriformis n. sp., Clarke, 946.
 sciotense, Whitfield, 6099.
 Gomphognathus, Case, 768.
 Gomphotherium Cope, Wortman, 6493.
 cameloides n. sp., Wortman, 6493.
 serus n. sp., Douglas, 6540.
 sternbergi Cope, Wortman, 6493.
 Gongylospongia n. gen., Hall and Clarke, 2269, 2270.
 complanatus Hall, Grabau, 2086.
 marshi n. sp., Hall and Clarke, 2269, 2270.
 rhynchostoma Clarke, Grabau, 2086.
 sororium Clarke, Grabau, 2086.
 Goniatodon Cope, Matthew, 3801.
 levisanus (Cope), Matthew, 3801.
 Goniaster mammillata Gabb, Clark, 892.
 Goniasteroidocrinus faberi n. sp., Miller and Gurley, 4001.
 lyonanus n. sp., Miller and Gurley, 3997a.
 tuberosus, Miller, 3992.
 Goniatites de Haan, Grabau, 2086.
 blairi n. sp., Miller and Gurley, 4002.
 brownensis, n. sp., Miller, 3992.
 elkhornensis n. sp., Miller and Gurley, 4002.

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Genera and species described—Continued.

- Goniatites fultonensis* n. sp., Miller and Gurley, 4002.
gorbyi n. sp., Miller, 3992.
greeneastlensis n. sp., Miller and Gurley, 4002.
greenii n. sp., Miller, 3995.
illinoisensis n. sp., Miller and Gurley, 4002.
indianensis n. sp., Miller, 3992.
jessiae n. sp., Miller and Gurley, 4002.
kansasensis n. sp., Miller and Gurley, 4002.
kentuckiensis, Miller and Gurley, 4002.
leviculus n. sp., Miller and Faber, 3993.
limatus n. sp., Miller and Faber, 3993.
lunatus n. sp., Miller and Gurley, 4002.
marshallensis, Lane, 3400.
missouriensis n. sp., Miller and Faber, 3993.
montgomeryensis n. sp., Miller and Gurley, 4002.
occidentalis n. sp., Miller and Faber, 3993.
parrishi n. sp., Miller and Gurley, 4002.
sciotoensis n. sp., Miller and Faber, 3993.
subcavus n. sp., Miller and Gurley, 4002.
(Gephyroceras) holzapfeli Clarke, Grabau, 2086.
(Mantioceras) intumescens Beyrich, Grabau, 2086.
(Probeloceras) lutheri Grabau, 2086.
(Tornoceras) bicostatus Hall, Grabau, 2086.
uniangularis Conrad, Grabau, 2086.
Goniobasis (?) *increbescens* n. sp., Stanton, 5206.
jeffersonensis n. sp., White, C. A., 6035.
pealci n. sp., Stanton, 5206.
texana Heilprin, Aldrich, 73.
Gonioceras Hall, 1847, Clarke, 953.
anceps Hall, 1847, Clarke, 953.
occidentale Hall, 1861, Clarke, 953.
occidentale, Whitfield, 6102.
Gonioerinus sculptilis n. gen. et sp., Miller and Gurley, 3991.
Goniomya calderoni n. sp., Aguilera, 57.
montanaensis Meek, Logan, 3559.
 sp., Logan, 3559.
Goniopholis, Case, 768.
Goniophora Phillips, Grabau, 2086.
dubia, Whitfield, 6099.
jennae (Wyn.), Weller, 6006.
modiomorphoides n. sp., Grabau, 2086, 2087.
woodwardi, n. sp., Clarke, 976.
 sp.?, Clarke, 971.
Goniophyllum pyramidale Hisinger, Weller and Davison, 5978.
Goniopygus zitteli Clark, Clark, 892.
zitteli Clark, Cragin, 1115.
Goniotrypa, Simpson, 4983.
Gonomyia frigida, Scudder, 4894.
labefactata, Scudder, 4894.
primogenitalis, Scudder, 4894.
profundi, Scudder, 4894.
Gorgonichthys clarki, Claypole, 990.
Gosselettia Barrios, Grabau, 2086.
retusa Hall, Grabau, 2086.
Grammatodon M. and H., Woods, 6431.
Grammysia de Verneuil, Grabau, 2086.

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Genera and species described—Continued.

- Grammysia amygdalinus* (Win.), Weller, 6006.
arcuata (Conrad), Grabau, 2086.
bisulcata, Whitfield, 6099.
blairi n. sp., Miller, 3992.
burmeisteri n. sp., Clarke, 976.
gardneri n. sp., Clarke, 976.
grammysia sp., Clarke, 976.
imbricata n. sp., Rowley, 4677a.
lundi n. sp., Clarke, 976.
pissisi n. sp., Clarke, 976.
plena Hall, Weller, 6006.
ulrichi n. sp., Clarke, 976.
Granatoerinus aplatus (Rowley and Hare), Rowley, 4677.
calycinus n. sp., Rowley, 4677.
mutabilis n. sp., Rowley, 4673.
norwoodi (Owen and Shumard), Keyes, 3061.
spheroidalis n. sp., Miller and Gurley, 3997a.
spinuliferus n. sp., Rowley, 4677.
stella n. sp., Rowley, 4677.
winslowi n. sp., Miller and Gurley, 3997a.
 sp.?, Rowley, 4677.
Graphioerinus tortuosus, Whitfield, 6098.
Graphularia perplexa (de Gregorio), Vaughan, 5735.
Graptodictya, Simpson, 4983.
Graptolithus, James, 2881.
laevis Hall, Gurley, 2217.
(Diplograptus) peosta, Whitfield, 6102.
Grewia crenata (Ung.) Heer, Newberry, 4083.
Grewiopsis æquidentata n. sp., Lesquereux, 3470.
 ? *aldersoni* n. sp., Knowlton, 3255.
cleburni Lx., Knowlton, 3264.
mudgei n. sp., Lesquereux, 3470.
Griffithides ornata n. sp., Vogdes, 5758.
Griphodictya n. gen., Hall and Clarke, 2269, 2271.
eliphanes n. sp., Hall and Clarke, 2269, 2271.
Gruenewaldtia, see *Atrypa* (*Gruenewaldtia*) *Tschernyschew*, Hall and Clarke, 2261.
Gryphaea subgen. *Lamarek*, Dall, 1272.
corrugata Say (n. gen. *G. corrugata* Hill), Hill and Vaughan, 2561.
forniculata, Stanton, 5197.
galcola var. *nebrascensis* Meek and Hayden, Stanton, 5206.
gibberosa n. sp., Cragin, 1115.
gibberosa Cragin, Hill and Vaughan, 2561.
marcoui n. sp., Hill and Vaughan, 2561.
mueronata Gabb, Hill and Vaughan, 2561.
navia Hall, Hill and Vaughan, 2561.
newberryi n. sp., Stanton, 5191.
newberryi Stanton, Hill and Vaughan, 2561.
persimilis (nom. prov.), Whiteaves, 6095a.
pitcheri Morton, Hill and Vaughan, 5161.
 var. *hilli* Cragin, Hill and Vaughan, 2561.
pitcheri, Stanton, 5197.
planoconvexa Whitfield, Stanton, 5206.
tucumcarii, Stanton, 5197.

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- Gryphaea vesicularis* Lam., Harris, 2315.
 vesicularis, Herrick and Johnson, 2465.
 vesicularis Lamarek, Whiteaves, 6085.
 wardi n. sp., Hill and Vaughan, 2561.
 washitaensis Hill, Hill and Vaughan, 2561.
- Grypoidius corcirostris*, Scudder, 4890.
- Grypodon*, Hay, 2381.
- Guerangeria*, or *Nyassa ortonii*, n. sp., Clarke, 976.
- Gulo liscus* Linn, Cope, 1104.
- Gwynia* King, Hall and Clarke, 2264.
- Gymnetron antecurrens*, Scudder, 4890.
- Gypidula* Hall, Hall and Clarke, 2261a, 2264.
 romingeri, Hall and Clarke, 2268.
- Gyroceras columbiense*, Whitfield, 6099.
 numa Billings, Whiteaves, 6089.
 seminodosum, Whitfield, 6099.
- Gyroides abbotti*, Whitfield, 6097.
 altispira, Whitfield, 6097.
 conradi Meek, Stanton, 5191.
 crenata, Whitfield, 6097.
 depressa, Meek, Herrick and Johnson, 2465.
 depressa Meek, Stanton, 5191.
 duplinensis n. sp., Dall, 1269.
 infracarinata, Whitfield, 6097.
 obtusivola, Whitfield, 6097.
 petrosus, Whitfield, 6097.
- Gyroides* (*Gyroidisca*) Dall, Dall, 1269.
- Gyronema* n. gen. or subgen., Ulrich and Scofield, 5541.
 duplicitum n. sp., Ulrich and Scofield, 5541.
 liratum n. sp., Ulrich and Scofield, 5541.
 pulchellum n. sp., Ulrich and Scofield, 5541.
 semicarinatum Salter, Ulrich and Scofield, 5541.
- Gyrotychius*, Case, 766.
- Habrocerinus* Angelin, Wachsmuth and Springer, 5765a.
- Habrocerinus* d'Orb., Grabau, 2086.
 acacocerinus W. and Sp., Wachsmuth and Springer, 5765a.
 pentadactylus n. sp., Grabau, 2086.
- Hadrianus schucherti* n. sp., Hay, 2382.
- Hadrophyllum*, E. and H., Grabau, 2086.
 glans White, Keyes, 3061.
 tennesseense n. sp., Miller and Gurley, 3998.
 woodi n. sp., Grabau, 2086.
- Hadrosaurus*, Case, 768.
- Haguia* n. gen., Walcott, 5816.
 sphaerica n. sp., Walcott, 5816.
- Haimesiastraea conferta* n. sp., Vaughan, 5735.
 petrosa (Gabb), Vaughan, 5735.
- Hainosaurus*, Williston, 6245.
- Halechondrites confusus* Dawson, Dawson, 1452.
- Halisceri teslineatus* n. sp., Penhallow, 4333.
 chondriformis n. sp., Penhallow, 4333.
- Halliella* Ulrich, Ulrich, 5540.
 labiosa n. sp., Ulrich, 5540.
- Hallina* n. gen., Winchell and Schuchert, 6298, 6319.

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- Hallina* N. H. Winchell and Schuchert, Hall and Clarke, 2264.
 nicolleti n. sp., Winchell and Schuchert, 6298, 6319.
 saffordi, Winchell and Schuchert, 6298, 6319.
- Hallodyetia* n. gen., Hall and Clarke, 2269, 2270.
 cottoniana n. sp., Hall and Clarke, 2269, 2270.
 sciencis n. sp., Hall and Clarke, 2269, 2270.
- Hallopus*, Case, 768.
- Hallopus* Marsh, 3701.
- Halorella Bittner*, Hall and Clarke, 2264.
- Halymenites major* Lx., Knowlton, 3264.
- Halysites* Fischer, Lambe, 3374.
 agglomeratiformis n. sp., Whitfield, 6112.
 catenularia L., Lambe, 3374.
 var. *amplitubulata* n. var., Lambe, 3374.
 var. *gracilis* Hall, Lambe, 3374.
 var. *nitida* n. var., Lambe, 3374.
 var. *quebecensis* n. var., Lambe, 3374.
 var. *simplex* n. var., Lambe, 3374.
 catenularia L., var., *gracilis*, Whiteaves, 6087.
 compacta Rominger, Lambe, 3374.
 micropora Whitfield, Lambe, 3374.
- Haminea pompholyx* n. sp., Dall, 1269.
 truncata, Stanton, Herrick and Johnson, 2465.
 truncata n. sp., Stanton, 5191.
- Hamites obstrictus* Jimbo, Whiteaves, 6085.
- Haploceras carinata* n. sp., Aguilera, 57.
 catoregensis n. sp., Aguilera, 57.
 mazapilensis n. sp., Aguilera, 57.
- Haploceras lineatus* Cope, Osborn and Earle, 4191.
- Haplophragmium coneava* n. sp., Bagg, 144.
 concavum Bagg, Bagg, 150.
 irregulare (Roemer), Bagg, 150.
- Haplocephala eccentrica* Conrad, Logan, 3554.
 grandis Conrad, Logan, 3554.
 niobrarenensis, Logan, 3554.
- Hapsiphyllum* n. gen., Simpson, 4984.
- Harpa jacksonensis* n. sp., Harris, 2311.
 (?) *occidentalis* n. sp., Herrick and Johnson, 2465.
- Harpalus nuperis* n. sp., Scudder, 4900.
 whitfieldii n. sp., Scudder, 4900.
- Harpes cassinensis* n. sp., Whitfield, 6106.
- Harpina minnesotensis* n. sp., Clarke, 952.
 cf. *ottawensis* Billings (sp.) Clarke, 952.
 rutrellum n. sp., Clarke, 952.
- Harrisia* n. gen., Cleland, 1012.
 parabola n. s., Cleland, 1012.
- Hartina* Hall, Hall and Clarke, 2264.
- Hausmannia rigida* n. sp., Newberry, 4080.
- Hebertella*, Hall and Clarke, 2260.
- Hedera cretacea* n. sp., Lesquereux, 3470.
 decurrens n. sp., Lesquereux, 3470.
 microphylla n. sp., Lesquereux, 3470.
 obliqua n. sp., Newberry, 4080.
 orbiculata (Heer) Lesq., Lesquereux, 3470.
 ovalis Lesq., Lesquereux, 3470.

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Genera and species described—Continued.

- Hedera plantanoidea* Lesq., Lesquereux, 3470.
primordialis Sap., Newberry, 4080.
 sp.?, Hollick, 2696.
- Hederella* Hall, Grabau, 2086.
- Hederella* Simpson, 4983.
arachnoidea n. sp., Clarke, 971.
canadensis (Nicholson), Grabau, 2086.
filiformis (Billings), Grabau, 2086.
gracilior n. sp. Clarke, 971.
magna Hall and Simpson, Clarke, 971.
ranca n. sp., Clarke, 971.
- Helcion granulatus* n. sp., Stanton, 5199.
 (?) *tentorium*, Whitfield, 6097.
- Helcionopsis* n. gen., Ulrich and Scofield, 5541.
striata n. sp., Ulrich and Scofield, 5541.
subcarinata n. sp., Ulrich and Scofield, 5541.
- Helenia* Walcott, Matthew, 3790.
granulata, Matthew, 3790.
- Helicaneylus* Gabb, Hyatt, 2819.
- Helicina ballista* n. sp., Dall, 1259.
 var. *tampæ* Dall, Dall, 1259.
- Helicodictya* n. gen., Hall and Clarke, 2269, 2270.
 (?) *concordia* n. sp., Hall and Clarke, 2269, 2270.
 (?) *scio* n. sp., Hall and Clarke, 2269, 2270.
trypania n. sp., Hall and Clarke, 2269, 2270.
- Helicopora*, Simpson, 4983.
- Helicoprion*, Eastman, 1607.
- Helicotoma* Salter, Ulrich and Scofield, 5541.
declivis Safford, Ulrich and Scofield, 5541.
granosa n. sp., Ulrich and Scofield, 5541.
marginata n. sp., Ulrich and Scofield, 5541.
planulata Salter, Ulrich and Scofield, 5541.
 var. *robusta* n. var., Ulrich and Scofield, 5541.
planulatoides n. sp., Ulrich and Scofield, 5541.
subquadrata n. sp., Ulrich and Scofield, 5541.
tennesseensis Safford, Ulrich and Scofield, 5541.
umbilicata n. sp., Ulrich and Scofield, 5541.
verticalis n. sp., Ulrich and Scofield, 5541.
- Helioceras corrugatum* n. sp., Stanton, 5191.
 (?) *corrugatum* Stanton, Logan, 3554.
paricuse White, Stanton, 5191.
- Heliolites*, James, 2881.
- Heliolites* Dana, Lambe, 3374.
inordinata Lonsdale (sp.), Lambe, 3374.
interstincta L., Lambe, 3374.
perelegans n. sp., Whitfield, 6112.
shepardi, James, 2881.
subtubulata McCoy (sp.) Lambe, 3374.
- Heliophyllum* Hall, Grabau, 2086.
agassizi n. sp., Greene, 2162a.
beecheri, n. sp., Greene, 2162b.
bordeni n. sp., Greene, 2162a.
confluens Hall, Grabau, 2086.
flos n. sp., Greene, 2162b.

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- Heliophyllum gurleyi* n. sp., Greene, 2162a.
halli, E. and H. Grabau, 2086.
lemoi n. sp., Greene, 2162d.
minusculum n. sp., Greene, 2162d.
nanum n. sp., Greene, 2162.
nilesi n. sp., Greene, 2162a.
obesum n. sp., Greene, 2162b.
osculatum, n. sp., Greene, 2162.
partitum, n. sp., Greene, 2162b.
seamani, n. sp., Greene, 2162b.
sherzeri n. sp., Greene, 2162d.
tumidulum n. sp., Greene, 2162.
turgidum n. sp., Greene, 2162a.
- Helix adamnis* n. sp., Dall, 1259.
crusta n. sp., Dall, 1259.
crusta var. *cuneator* Dall, Dall, 1259.
discipiter n. sp., Dall, 1259.
direpta n. sp., Dall, 1259.
haruspica n. sp., Dall, 1259.
instrumosa n. sp., Dall, 1259.
latebrosa n. sp., Dall, 1259.
 Linné (*Hygromia* Risso), Dall, 1259.
- Helminthoidichnites meeki* n. sp., Walcott, 5815.
 (?) *neihartensis* n. sp., Walcott, 5815.
 (?) *spiralis* n. sp., Walcott, 5815.
- Helmescenia* Pander, Hall and Clarke, 2260.
- Helochelys*, Case, 768.
- Helodus coxanus* n. sp., Newberry, 4082.
wortheni, Hay, 2381.
- Heliopus plicodon*, Marsh, 3690.
- Helopora*, Simpson, 4983.
- Helopora* Hall, Ulrich, 5537.
alternata Ulrich, Ulrich, 5537.
divaricata Ulrich, Ulrich, 5537.
elegans n. sp., Ulrich, 5537.
harrisi James, Ulrich, 5537.
mucronata Ulrich, Ulrich, 5537.
quadrata n. sp., Ulrich, 5537.
- Hemister californicus* Clark, Clark, 892.
calvini Clark, Clark, 892.
dalli Clark, Clark, 892.
humphreysanus Meek and Hayden, Clark, 892.
parastatus (Morton), Clark, 892.
stella (Morton), Clark, 892.
texanus Roemer, Clark, 892.
texanus Roemer, Cragin, 892.
ungula (Morton), Clark, 892.
- Hemicidaritis intumescens* Clark, Clark, 892.
- Hemiganus otaridensis* Cope, Wortman, 6492.
- Hemipedinia charltoni* n. sp., Cragin, 1118.
- Hemiphragma* n. gen., Ulrich, 5537.
- Hemiphragma*, Simpson, 4983.
irrasum Ulrich, Ulrich, 5537.
ottawense Foord, Ulrich, 5537.
tenuimurale n. sp., Ulrich, 5537.
- Hemiptychina* Waagen, Hall and Clarke, 2261a, 2264.
- Hemithlaeus kowalevskianus* Cope, Osborn and Earle, 4191.
- Hemithyris D'Orbigny*, Hall and Clarke, 2264.
- Hemityrypa*, Simpson, 4983.
columellata Hall, Clarke, 971.
- Heptacodon armatus*, Marsh, 3682.

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Genera and species described—Continued.

- Heptaeodon curtus*, Marsh, 3682.
gibbiceps n. sp., Marsh, 3689.
Heptodon Cope, Wortman, 6489.
ealciculus Cope, Osborn and Wortman, 4180.
Hereoeras, Hyatt, 2819.
irregularis, Hyatt, 2819.
Hercoglossa paucifex, Whitfield, 6097.
Hernodia, Simpson, 4983.
Herpetocrinus flabelliferus, Bather, 294.
Hesperornis, Marsh, 3708.
regalis, Williston, 6245.
Heteracanthus uddeni n. sp., Lindhal, 3513.
Heterocardia Deshayes, Dall, 1272.
Heteroceras (?) *angulatum* M. & H., Logan, 3554.
cochleatum M. & H., Logan, 3554.
conradi, Whitfield, 6097.
hornbyense nom. prov., Whiteaves, 6082.
perversum nom. prov., Whiteaves, 6082.
sp., Harris, 2315.
Heterocrinus subcrassus, Dyche, 1581.
Heterodonax Mörch, Dall, 1281.
Heterodontosuchus ganei n. gen. et sp., Lucas, 3584.
Heterorthis, Hall and Clarke, 2260.
Heterorhops eontiensis n. sp., Seudder, 4900.
Heterospongia, James, 2881.
Heterospongia Ulrich, Winchell and Schuchert, 6318.
aspera, James, 2881.
subramosa, James, 2881.
subramosa ? Ulrich, Winchell and Schuchert, 6318.
Heteroterma gabbi n. sp., Stanton, 5198.
striata n. sp., Stanton, 5198.
Heterotrypa, Simpson, 4983.
Heterotrypa Nicholson, Ulrich, 5537.
prolifera Ulrich, Ulrich, 5537.
singularis Ulrich, Ulrich, 5537.
Hexacrinus Austin, Wachsmuth and Springer, 5765a.
lei (Lyon), Wachsmuth and Springer, 5765a.
occidentalis W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
Hexarhizites insignis Haeckel, Walcott, 5811.
Hicoria crescentia n. sp., Knowlton, 3255.
culveri n. sp., Knowlton, 3255.
Hindella Davidson, Hall and Clarke, 2261, 2264.
Hindia, James, 2881.
fibrosa Roemer, Girty, 2034.
parva Ulrich, Winchell and Schuchert, 6318.
sphaeroidalis Duncan, Girty, 2037.
sphaeroidalis Duncan, Rauff, 4548.
var. para Ulrich, Rauff, 4548.
Hindsiella Stoliezka, Dall, 1281.
acuta n. sp., Dall, 1281.
carolinensis n. sp., Dall, 1281.
faba O. Meyer, Dall, 1281.
(faba var.?) donacia Dall, Dall, 1281.
nephritica n. sp., Dall, 1281.
Hinnites erassus Conrad, Dall, 1272.

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- Hipparionyx Vanuxen*, Hall and Clarke, 2260.
proximus Vanuxen, Clarke, 971.
Hippidium interpolatum Cope, n. sp. Cope, 1087.
? speetans Cope, Cope, 1087.
Hipponieharion cavatum n. sp., Matthew 3751, 3761.
eos, Matthew, 3761.
minus n. sp., Matthew, 3751, 3761.
Hipponyx sylværupis n. sp., Harris, 2316.
tortilis n. sp., Guppy and Dall, 2214.
Hippurites flabellifer n. sp., Cragin, 1115.
Holasaphus n. gen., Matthew, 3767.
centropyge n. sp., Matthew, 3767.
Holaster eompletus n. sp., Cragin, 1115.
nanus n. sp., Cragin, 1115.
simplex Shumard, Clark, 1115.
simplex Shumard, Cragin, 1115.
supernus n. sp., Cragin, 1115.
Holasterella wrighti var. *americana* n. var., Girty, 2038.
Holcodiscus cumshewaensis, Whiteaves, 6095a.
Holcetypus charltoni n. sp., Cragin, 1115.
planatus Roemer, Clark, 892.
planatus Roemer, Cragin, 1115.
transpecosensis n. sp., Cragin, 1115.
Holmiceras n. gen., Hyatt, 2819.
Holocephali, Case, 766.
Holoeraspedum n. gen., Cragin, 1115.
Holocystites adipatus n. sp., Miller, 3992.
affinis n. sp., Miller and Faber, 3994.
amplus n. sp., Miller, 3995.
asper n. sp., Miller and Gurley, 3998.
benedicti n. sp., Miller, 3992.
colletti n. sp., Miller, 3992.
commodus n. sp., Miller, 3992.
gorbyi n. sp., Miller, 3992.
gyrinus, Miller and Gurley, 3997c.
indianensis n. sp., Miller, 3992.
madisonensis n. sp., Miller, 3992.
ornatissimus n. sp., Miller, 3992.
papulosus n. sp., Miller, 3992.
parvulus n. sp., Miller, 3992.
parvus n. sp., Miller, 3992.
scitulus n. sp., Miller, 3992.
spangleri n. sp., Miller, 3992.
sphaeroidalis n. sp., Miller and Gurley, 3998.
splendens n. sp., Miller and Gurley, 3997c.
subovatus n. sp., Miller, 3992.
wykoffi n. sp., Miller, 3992.
Holomeniscus macrocephalus Cope, Cope, 1087.
sulcatus Cope, Cope, 1087.
Holonema, Williams, 1052.
horrida n. sp., Cope, 1082.
rugosa Clayp., Cope, 1082.
Holopea Hall, Ulrich and Scofield, 5541.
ampla n. sp., Ulrich and Scofield, 5541.
appressa n. sp., Ulrich and Scofield, 5541.
eoneimula n. sp., Ulrich and Scofield, 5541.
exceles n. sp., Ulrich and Scofield, 5541.
gracia Billings, Whiteaves, 6080.
grandis n. sp., Miller and Gurley, 4002.

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Genera and species described—Continued.

- Holopea harmonia* Billings, Whiteaves, 6080.
hubbardi n. sp., Miller, 3995.
insignis n. sp., Ulrich and Scofield, 5541.
newtonensis, Whitfield, 6099.
paludiformis, Ulrich and Scofield, 5541.
parvula n. sp., Ulrich and Scofield, 5541.
pyrene Billings, Ulrich and Scofield, 5541.
rotunda n. sp., Ulrich and Scofield, 5541.
similis n. sp., Ulrich and Scofield, 5541.
supraplana n. sp., Ulrich and Scofield, 5541.
turgida, Hall, Cleland, 1012.
- Holoptychius*, Case, 761.
americanus Leidy, Eastman, 1605.
filosus n. sp., Cope, 1082.
flabellatus n. sp., Cope, 1103.
latus n. sp., Cope, 1103.
scerrulatus n. sp., Cope, 1103.
- Holosaurus*, Williston, 6245.
- Homaedon priscus* n. sp., Marsh, 3690.
vagans, Marsh, 3690.
- Homalonotus* Koenig, Grabau, 2086.
deckayi (Green), Grabau, 2086.
sp. ? Clarke, 971.
- Homalophyllum*, n. gen., Simpson, 4984.
- Homolopsis richardsoni* Woodward, Whiteaves, 6095a.
richardsoni n. sp., Woodward, 6440.
- Homomya gallatinensis* n. sp., Stanton, 5206.
jurafacies n. sp., Cragin, 1115.
solida, n. sp., Cragin, 1115.
- Homothetus erutus* n. sp., Matthew, G. F., 3758.
- Homotrypa*, Simpson, 4983.
- Homotrypa* Ulrich, Ulrich, 5537.
callosa n. sp., Ulrich, 5537.
exilis Ulrich, Ulrich, 5537.
? intercalaris n. sp., Ulrich, 5537.
minnesotensis Ulrich, Ulrich, 5537.
obliqua Ulrich, James, 2896.
separata n. sp., Ulrich, 5537.
similis, Foord, Ulrich, 5537.
subramosa Ulrich, Ulrich, 5537.
tuberculati n. sp., Ulrich, 5537.
- Homotrypella*, Simpson, 4883.
- Homotrypella* Ulrich, Ulrich, 5537.
instabilis Ulrich, Ulrich, 5537.
multiportata n. sp., Ulrich, 5537.
mundula n. sp., Ulrich, 5537.
? ovata n. sp., Ulrich, 5537.
rustica n. sp., Ulrich, 5537.
? subgracilis n. sp., Ulrich, 5537.
- Homoya washita* n. sp., Cragin, 1118.
- Hoplites angulatus* n. sp., Stanton, 5199.
bifurcatus n. sp., Aguilera, 57.
calisto var., Aguilera, 57.
canadensis n. sp., Whiteaves, 6073.
cooglani n. sp., Aguilera, 57.
crassiplicatus n. sp., Stanton, 5199.
dilleri n. sp., Stanton, 5199.
exceptionalis n. sp., Aguilera, 57.
haidaguensis n. sp., Whiteaves, 6077, 6095a.
heilprini n. sp., Aguilera, 57.
hyatti n. sp., Stanton, 5199.
meconnelli n. sp., Whiteaves, 6077.

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- Hoplites mexicanus* n. sp., Aguilera, 57.
newcombii n. sp., Whiteaves, 6095a.
roemeri n. sp., Cragin, 1115.
storrsi n. sp., Stanton, 5199.
texasus n. sp., Cragin, 1115.
yakounensis n. sp., Whiteaves, 6095a.
sp. ?, Aguilera, 57.
- Hoploparia bennetti* n. sp., Woodward, 6442.
westoni n. sp., Woodward, 6442.
- Hoplophonus occidentalis* Leidy, Osborn and Wortman, 4189.
primevus, Adams, 37.
- Hormorus saxorum*, Seudder, 4890.
- Hormotoma* Salter, Ulrich and Scofield, 5541.
bellicincta Hall, Ulrich and Scofield, 5541.
gracilis Hall, Ulrich and Scofield, 5541:
var. angustata Hall, Ulrich and Scofield, 5541.
(?) var. goodhuensis n. var., Ulrich and Scofield, 5541.
var. multivolvina n. var., Ulrich and Scofield, 5541.
var. subluxa n. var., Ulrich and Scofield, 5541.
- (?) major* Hall, Ulrich and Scofield, 5541.
salteri n. sp., Ulrich and Scofield, 5541.
subangulata n. sp., Ulrich and Scofield, 5541.
trentonensis n. sp., Ulrich and Scofield, 5541.
wiunipegensis n. sp., Whiteaves, 6087.
- Hustedia* n. gen., Hall and Clarke, 2261, 2264.
pygmaea n. sp., Rowley, 4677a.
- Hyenodon ?*, Osborn, 4190.
crusians Leidy, Osborn and Wortman, 4189.
eruentus Leidy, Scott, 4873.
mustelinus n. sp., Scott, 4876.
paucidens n. sp., Osborn and Wortman, 4189.
- Hyalostella (?) marcellia* n. sp., Clarke, 946.
Hyalostella metissica Dawson, Dawson, 1452.
Hyattella n. gen., Hall and Clarke, 2261, 2264.
Hybodus clarkensis, n. sp., Cragin, 1119.
copei, Hay, 2381.
regularis n. sp., Cope, 1076.
- Hydnoceras* Conrad, Hall and Clarke, 2269, 2270.
anthracis n. sp., Hall and Clarke, 2269, 2270.
avoca n. sp., Hall and Clarke, 2269, 2270.
barroisi nom. nov., Hall and Clarke, 2269, 2270.
bathense n. sp., Hall and Clarke, 2269, 2270.
botroedema n. sp., Hall and Clarke, 2269, 2270.
cumeees n. sp., Hall and Clarke, 2269, 2270.
eutheles n. sp., Hall and Clarke, 2269, 2270.
gracile n. sp., Hall and Clarke, 2269, 2270.
hyastrum n. sp., Hall and Clarke, 2269, 2270.
jeumontense n. sp., Hall and Clarke, 2269, 2270.

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- Hydnoceras legatum*, Hall and Clarke, 2269, 2270.
lutheri n. sp., Hall and Clarke, 2269, 2270.
multinodosum n. sp., Hall and Clarke, 2269, 2270.
nodosum Hall (sp.), Hall and Clarke, 2269, 2270.
phymatodes n. sp., Hall and Clarke, 2269, 2270.
rhopalum, n. sp., Hall and Clarke, 2269, 2270.
tuberosum Conrad, Hall and Clarke, 2269, 2270.
 var. *glossema* n. var., Hall and Clarke, 2269, 2270.
variabile n. sp., Hall and Clarke, 2269, 2270.
Hydreionocrinus acanthophorus (Meek and Worthen), Keyes, 3061.
crasidiscus n. sp., Miller and Gurley 3997a.
granuliferus n. sp., Miller and Gurley, 3997a.
kansasensis n. sp., Weller, 5987.
pentagonus n. sp. Miller and Gurley, 3991.
noduliferus n. sp., Miller and Gurley, 3997a.
sanctiludovici Worthen, Miller and Gurley, 3997a.
subsinuatus n. sp., Miller and Gurley, 3997a.
Hydriodictya n. gen., Hall and Clarke, 2269, 2270.
 cylix n. sp., Hall and Clarke, 2269, 2270.
 nephelia n. sp., Hall and Clarke, 2269, 2270.
 patula Hall, Hall and Clarke, 2269, 2270.
Hydrobia amnicoloides Pilsbry n. sp., Dall, 1259.
 mobiliana Dall n. sp., Dall 1259.
 occulta n. sp., White, 6036.
 umbilicata Pilsbry n. sp., Dall, 1259.
Hydrobus maceratus n. sp., Seudder, 4900.
Hydrocephalus careus, Beecher, 366.
 saturnoides, Beecher, 366.
Hydrocharis extricatus, n. sp., Seudder, 4900.
Hydrosera (Terpsinoe?) novae-caesareae, n. sp., Boyer, 518.
Hylastes? *squalideus*, Seudder, 4896.
Hylterpeton, Case, 767.
 intermedium n. sp., Dawson, 1446.
Hylobites cretaceous, Seudder, 4896.
Hylobius lacoei, Seudder, 4890.
 packardii, Seudder, 4890.
Hylonomus, Case, 767.
Hylopus minor n. sp., Dawson, 1446.
 (?) *trifidus* n. sp., Dawson, 1446.
Hymenaea dakotana n. sp., Lesquereux, 3470.
 dakotana Lesq., Newberry, 4080.
Hymeraphia? sp., Merrill, 3969.
Hynniphoria Suess, Hall and Clarke, 2264.
Hyolithellus, Billings, Matthew, 3790.
 (?) *flexuosus*, Matthew, 3790.
 micans Billings, Grabau, 2092.
 micans Billings, Matthew, 3751, 3790.
Hyolithes Eichwald, Matthew, 3788, 3790.
 alatus n. sp., Whiteaves, 6074.

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- Hyolithes americanus* Billings, Grabau, 2092.
 billingsi Walcott (?), Grabau, 2092.
 carinatus n. sp., Matthew, 3788.
 communis Billings, Grabau, 2092.
 decipiens n. sp., Matthew, 3751.
 decipiens, Matthew, 3761.
 dubius n. sp., Miller and Faber, 3979.
 excellens Billings, Grabau, 2092.
 excellens, Bill, Matthew, 3790.
 gracilior n. sp., Matthew, 3761.
 hathewayi, n. sp., Matthew, 3789.
 (?) *haywardensis* n. sp., Grabau, 2092.
 impar Ford, Grabau, 2092.
 lanceolatus n. sp., Miller, 3995.
 cf. *obesus* Holm, Matthew, 3751.
 primordialis Hall, Walcott, 5816.
 principis Billings, Grabau, 2092.
 quadricostatus Shaler and Foerste, Grabau, 2092.
 rugosus, Matthew, 3790.
 searsi n. sp., Grabau, 2092.
 shaleri Walcott, Grabau, 2092.
 cf. *tenuistriatus* Linrs., Matthew, 3767.
 cf. *obtusa* Bill, Matthew, 3761.
 versaillesensis n. sp., Miller and Faber, 3997.
 sp., Matthew, 3788.
Hyolithus ceratophilus n. sp., Clarke, 946.
Hyomeryx Marsh, Scott, 4883, 4884.
 breviceps n. gen. et sp., Marsh, 3690.
Hyopotamus americanus Leidy, Osborn and Wortman, 4189.
 brachyrhynchus n. sp., Osborn and Wortman, 4189.
Hypetragululus Cope, Scott, 4883.
Hyperodapedon, Case, 768.
Hyphantenia Vanuxem (emendata), Hall and Clarke, 2269, 2270.
 chemungensis Vanuxem, Hall and Clarke, 2269, 2270.
Hypnum brownii n. sp., Kirehuer, 3187.
 recurvans, Penhallow, 4336.
Hypopnous Cope, n. gen., Cope, 1097.
 squaliceps n. sp., Cope, 1097.
Hyposaurus vebbi Cope, Williston, 6245.
Hypotamnodon n. gen., Eyerma, 1728.
 coryphaeus n. sp., Eyerma, 1724.
Hypotherium gratum (H. ingenuum Leidy), Leidy, 3447.
 plicatile, Leidy, 3447.
 princeps, Leidy, 3447.
Hypothyris (McCoy) King, Hall and Clarke, 2261a, 2264.
 (Pugnax Hall) ?, Hall and Clarke, 2264.
Hypseloconus n. gen., Berkey, 429.
 capuloides n. sp., Berkey, 429.
 cornutiformis n. sp., Berkey, 429.
 cylindricus n. sp., Berkey, 429.
 franciensis n. sp., Berkey, 429.
 recurvus (Whitfield) var. *elongatus* n. var., Berkey, 429.
 stabilis n. sp., Berkey, 429.
Hypsipleura gregaria n. sp., Stanton, 5199.
 (?) *occidentalis* n. sp., Stanton, 5199.
Hyptiocrinus typus W. and Sp. n. gen. et sp., Wachsmuth and Springer, 5765.

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- Hyrachyus agrarius* Leidy, Osborn and Wortman, 4192.
- Hyracotherium* Owen, Wortman, 6489.
craspedotum Cope, Wortman, 6489.
cristatum n. sp., Wortman, 6489.
index Cope, Wortman, 6489.
montanum n. sp., Wortman, 6489.
tapirinum Cope, Wortman, 6489.
vasaciense Cope, Wortman, 6489.
(Pliolophus) cristonense Cope, Wortman, 6489.
- Hystericites cordaitis* Gr.'Ey., White, 6050.
- Icanodus ? limitaris*, Hay, 2381.
- Ichthyocrinus* Conrad, Weller, 6002.
burlingtonensis, Whitfield, 6098.
clarkensis n. sp., Miller and Gurley, 3997c.
greenii n. sp., Miller, 3995.
spinotulus n. sp., Miller and Gurley, 3997c.
subangularis Hall, Weller, 6002.
- Ichthyodectes anades* Cope, Crook, 1147.
cruentus n. sp., Hay, 2380.
polymicrodus Cope, Crook, 1148.
- Ichthyodorulite*, Case, 766.
- Ichthyorachis*, Simpson, 4983.
- Ichthyornis dispar* Marsh, Williston, 6245.
- Ichthyosaurus*, Case, 1100.
- Ictops bullatus* n. sp., Matthew, 3804.
- Idiocrinus elongatus* W. and Sp. n. gen. et sp., Wachsmuth and Springer, 5765.
ventricosus W. and Sp. n. sp., Wachsmuth and Springer, 5765.
- Idiotrypa*, Simpson, 4983.
- Idonearca (?) depressa* White, Herrick and Johnson, 2465.
- Igoceras* Hall, Keyes, 3062.
capulus Hall, Keyes, 3062.
fissurella (Hall), Keyes, 3062.
pabulocrinus (Owen), Keyes, 3062.
pyramidatum (Hall), Keyes, 3062.
quincyense (McChesney), Keyes, 3062.
- Iguanavus teres* n. sp., Marsh, 3672.
- Iguanodon*, Case, 768.
- Ilex ? affinis (?)* Lx., Hollick, 2708.
armata n. sp., Lesquereux, 3470.
borealis Heer, Lesquereux, 3470.
dakotensis n. sp., Lesquereux, 3470.
(?) elongata n. sp., Newberry, 4080.
masoni n. sp., Lesquereux, 3470.
(?) ovata n. sp., Newberry, 4080.
papillosa n. sp., Lesquereux, 3470.
rigida n. sp., Kirchner, 3187.
scudderii n. sp., Lesquereux, 3470.
 sp., Hollick, 2708.
- Illionia galtensis* Whiteaves, Whiteaves, 6080.
- Illenus aboynensis* n. sp., Whiteaves, 6080.
(?) ambiguus, Forste, 1835.
americanus Billings 1859, Clarke, 952.
danielsi n. sp., Miller and Gurley, 3997a.
cf. indeterminatus Walcott, Clarke, 952.
insignis, Foerste, 1835.
insignis ? Hall, Keyes, 3061.
madisonianus, Foerste, 1835.
taurus, Whitfield, 6102.
- Ilyanassa granifera* Conrad, Dall, 1259.
irrorata Conrad, Dall, 1259.

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- Ilyanassa isogramma* n. sp., Dall, 1259.
(porcina var.?) schizopyga, Dall, 1259.
porcina Say, Dall, 1259.
(Paranassa) arata Say, Dall, 1259.
- Ilyocypris oblonga* n. sp., Jones, T. R., 2935.
- Ilyodes (?) attenuatus* n. sp., Matthew, G. F. 3759.
- Incolaria securiformis* n. gen. et sp., Herzer, 2500.
- Indianocrinus* n. gen., Miller and Gurley, 3998.
punctatus n. sp., Miller and Gurley, 3998.
- Indrodon malaris* Cope, Osborn and Earle, 4191.
- Ingra cretacea* n. sp., Lesquereux, 3470.
- Inocaulis*, James, 2881.
canadensis n. sp., Whiteaves, 6087.
- Inoceramus acuteplicatus* n. sp., Stanton, 5206.
altus Meek, Logan, 3554.
barabini Mort., Harris, 2315.
brownii Cragin, Logan, 3554.
comancheana n. sp., Cragin, 1118.
comancheana, Stanton, 5197.
concentricus n. sp., Logan, 3554.
erliisii var. *barabina* Morton, Logan, 3554.
cumminsi n. sp., Cragin, 1118.
deformis Meek, Herrick and Johnson, 2465.
deformis Meek, Logan, 3554.
deformis Meek, Stanton, 5191.
digitatus (Sowerby), Schmidt, Whiteaves, 6085.
dimidius White, Logan, 3554.
dimidius White, Stanton, 5191.
exogyroides M. and H., Logan, 3554.
exogyroides M. and H., Stanton, 5191.
flaccidus White, Logan, 3554.
flaccidus White, Stanton, 5191.
fragilis H. and M., Herrick and Johnson, 2465.
fragilis M. and H., Logan, 3554.
fragilis H. and M., Stanton, 5191.
gilberti White, Herrick and Johnson, 2465.
gilbertii White, Logan, 3554.
gilberti White, Stanton, 5191.
incurvus M. and H., Logan, 3554.
labiatus Schloth, Herrick and Johnson, 2465.
labiatus Schlotheim, Logan, 3554.
labiatus Schlotheim, Stanton, 5191.
nultistriatus n. sp., Cragin, 1115.
munsoni n. sp., Cragin, 1118.
ovatus n. sp., Stanton, 5199.
pennatus n. sp., Logan, 3554.
platinus n. sp., Logan, 3554.
sagensis var. *nebrascensis* Owen, Logan, 3554.
simpsonii Meek, Logan, 3554.
simpsoni Meek, Stanton, 5191.
subconvexus n. sp., Logan, 3554.
subtriangulatus n. sp., Logan, 3554.
subundatus Meek, Whiteaves, 6084.
tenuirostratus M. and H., Logan, 3554.
tenuirostratus M. and H., Stanton, 5191.
truncatus n. sp., Logan, 3554.
umbonatus M. and H., Logan, 3554.

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Inoceramus umbonatus M. and H., Stanton, 5191.

undabundus M. and H., Logan, 3551.

undabundus M. and H., Stanton, 5191.

vancouverensis Shumard, Whiteaves, 6084.

sp., Herrick and Johnson, 2465.

sp. ?, Whiteaves, 6084.

Intrapora, Simpson, 4983.

Iphidea Billings, Hall and Clarke, 2260.

Iphidea, Walcott, 5808.

alabamaensis n. sp., Walcott, 5808.

bella Billings (?), Grabau, 2092.

crenistrina n. sp., Walcott, 5808.

logani n. sp., Walcott, 5808.

pealei n. sp., Walcott, 5808.

sculptis Meek, Walcott, 5816.

superba n. sp., Walcott, 5808.

sp. undet., Walcott, 5816.

Iris sp. ?, Newberry, 4083.

Irites alaskana Lesquereux, Knowlton, 3232.

Iscadites Murchison emende Hinde, Winchell and Schuchert, 6318.

iowensis Owen, sp., Winchell and Schuchert, 6318.

Iscchnochiton tampensis n. sp., Dall, 1259.

Ischyrliza (?) *radiata* Clark, Clark, 904, 906.

Ischyrodonta Ulrich, Ulrich, 5535.

decepiens n. sp., Ulrich, 5535.

elongata, Ulrich, 5535.

miseneri n. sp., Ulrich, 5535.

modioliformis n. sp., Ulrich, 5535.

ovalis n. sp., Ulrich, 5534, 5535.

truncata, Ulrich, 5535.

unionoides, Ulrich, 5535.

Ismenia King, Hall and Clarke, 2264.

Isoecardia carolina n. sp., Dall, 1281.

floridana n. sp., Dall, 1281.

fraterna, Say, 4813.

fraterna Say, Dall, 1281.

humana Linné, Dall, 1281.

humilis n. sp., Cragin, 1115.

markoei Conrad, Dall, 1281.

mediavia n. sp., Harris, 2310.

tenuidens Whitfield, Dall, 1265.

Isochilina Jones, Grabau, 2086.

fabacea Jones, Grabau, 2086.

Isoedetes punctulatus Cope, Cope, 1103.

Isopholis, Hay, 2381.

Isotelus canalis Whitfield sp., Clarke, 952.

gigas De Kay, 1824, Clarke, 952.

maximus Locke, 1838, Clarke, 952.

susae Whitfield, 1882, Clarke, 952.

Isothea n. gen., Scudder, 4890.

alleni, Scudder, 4890.

Isotrypa, Simpson, 4983.

sp. indet., Clarke, 971.

Janassa gurleyana Cope, Case, 773.

strigilina Cope, Case, 773.

Jonesella Ulrich, Ulrich, 5540.

obscura n. sp., Ulrich, 5540.

Juglandites ellsworthianus n. sp., Lesquereux, 3470.

fallax n. sp., Dawson, 1436.

laoeoi n. sp., Lesquereux, 3470.

primordialis n. sp., Lesquereux, 3470.

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Juglandites sinuatus n. sp., Lesquereux, 3470.

Juglans affinis n. sp., Kirchner, 3187.

arctica Heer (?), Hollick, 2696.

arctica Heer, Lesquereux, 3470.

arctica Heer (?), Newberry, 4080.

crassipes Heer, Lesquereux, 3470.

erescens n. sp., Knowlton, 3255.

crossii Knowlton, Kirchner, 3187.

debeyana (Heer) Lesq., Lesquereux, 3472.

hesperia n. sp., Knowlton, 3246.

laurifolia n. sp., Knowlton, 3255.

? *missouriensis* n. sp., Knowlton, 3264.

nigella Heer, Newberry, 4083.

occidentalis Newb., Newberry, 4083.

rugosa Lx., Hollick, 2708.

schimperii Lx., Hollick, 2708.

townsendi n. sp., Knowlton, 3232.

sp., Knowlton, 3262.

Julia Gould, Dall, 1272.

floridana n. sp., Dall, 1272.

Juniperus macilenta Heer, Newberry, 4080.

Juvavella Bittner, Hall and Clarke, 2264.

Karpinskia Tschernyschew, Hall and Clarke, 2261, 2264.

Kaysarella n. gen., Hall and Clarke, 2260.

Kayseria Davidson, Hall and Clarke, 2261, 2264.

Keilostoma mediavia n. sp., Harris, 2310.

Kellia Turton, Dall, 1281.

prima n. sp., Aldrich, 71.

prima Ald., Harris, 2313, 2315.

suborbicularis Montagu, Dall, 1281.

sp. indet., Dall, 1281.

Kelliella Sars., Dall, 1281.

Keristella cf. haskinsi Hall, Girty, 2035.

Keyserlingia Pander, Hall and Clarke, 2260.

Kingena Davidson, Hall and Clarke, 2264.

Kionelasma n. gen., Simpson, 4984.

Kirkbya cymbula n. sp., Ulrich, 5543.

germana n. sp., Ulrich, 5543.

Kokenia n. gen., Ulrich and Seefield, 5541.

costalis n. sp., Ulrich and Seefield, 5541.

Koninckella Munier-Chalmas, Hall and Clarke, 2264.

Koninckina Suess, Hall and Clarke, 2264.

Koninckioceras, Hyatt, 2816.

Koninckodonta Bittner, Hall and Clarke, 2264.

Kraussella n. gen., Ulrich, 5540.

arcuata n. sp., Ulrich, 5540.

inaequalis n. sp., Ulrich, 5540.

Kraussina Davidson, Hall and Clarke, 2264.

Kutorgina Billings, Hall and Clarke, 2260.

Kutorgina Billings, Matthew, 3790.

granulata, Matthew, 3790.

Laasibium agassizii n. sp., Scudder, 4900.

scutellum n. sp., Scudder, 4900.

Labechua huronensis Billings sp., Lambe, 3377.

Labiosa (Ræta) Gray, Dall, 1272.

alta Conrad, Dall, 1272.

canaliculata Say, Dall, 1272.

(*Ræta*) Dall, 1272.

(Schmidt) Møller, Dall, 1272.

Laccophyllum n. gen., Simpson, 4984.

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Genera and species described—Continued.

- Laccophyllum acuminatum* n. sp., Simpson, 1984.
Laccopteris lanceolata (Güpp) Presl. n. comb. ?, Ward, 5857.
Laccopygus n. gen., Scudder, 4890.
 nilesii, Scudder, 4890.
Lacertilia, Cope, 1081.
Lachnopus humatus, Scudder, 4890.
 recuperatus, Scudder, 4890.
Laelaps incrassatus Cope, Cope, 1083.
 incrassatus, Hay, 2384.
Lagena aspera Reuss, Woodward and Thomas, 6433.
 erenata Parker and Jones, Chapman, 870.
 favosa-punctata Brady, Woodward and Thomas, 6433.
 globosa (Montagu) Bagge, 148, 150.
 hispida Reuss, Woodward and Thomas, 6433.
 sulcata (Walker and Jacob), Chapman, 870.
Lagomys palatinus Cope, Cope, 1104.
Lambdotherium Cope, Osborn, 4194.
 popoagium Cope, Osborn, 4193a, 4194.
Lamna appendiculata, Williston, 6259.
 macrorhiza, Williston, 6259.
 mudgei, Williston, 6259.
 (?) *obliqua* Agassiz, Clark, 906.
 (?) *quinquelateralis* n. sp., Cragin, 1119.
 quinquelateralis, Williston, 6259.
 sulcata, Williston, 6259.
 (*Odontaspis*?) sp., Williston, 6259.
Lampteroocrinus Roemer, Weller, 6002.
 (?) *dubius* n. sp., Weller, 6002.
 inflatus Hall, Weller, 6002.
 robustus n. sp., Weller, 6002.
 (?) *subglobosus* n. sp., Weller, 6002.
Laosaurus, Marsh, 3701.
Laotira n. gen., Walcott, 5805, 5811.
 cambria n. sp., Walcott, 5805, 5811.
Laphmina Ehlert, Hall and Clarke, 2260.
Lapparia Conrad, Dall, 1259.
 dumosa Con. var., Harris, 2316.
Laqueus Dall, Hall and Clarke, 2264.
Laricopsis longifolia Font., Fontaine, 1846, 1847.
Lariosaurus, Case, 768.
Larix americana, Penhallow, 4336.
 churchbridgensis, Penhallow, 4330.
Larus californicus?, Shufeldt, 4960.
 oregonus n. sp., Shufeldt, 4960.
 philadelphia, Shufeldt, 4960.
 robustus n. sp., Shufeldt, 4960.
Lasea Leach, Dall, 1281.
 rubra (Montagu) Brown, Dall, 1281.
Lasiotrix Hinde, Dawson, 1452.
 curvicostata Hinde, Dawson, 1452.
 flabellata n. sp., Dawson, 1452.
Lastrea (*Goniopteris*) *fischeri* Heer, Knowlton, 3262.
 fischeri Heer?, Newberry, 4083.
Lathrobium interglaciale, Scudder, 4896.
Latiarea Conrad, Whitfield, 6101.
Latirus alabamensis n. sp., Aldrich, 73.
 callimorphus n. sp., Dall, 1259.
 floridanus Heilprin, Dall, 1259.

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Genera and species described—Continued.

- Latirus* (*floripanus* var.?) *multilineatus*, Dall, 1259.
 hysipettus n. sp., Dall, 1259.
 imbricatulus n. sp., Harris, 2311.
 indistinctus n. sp., Aldrich, 71.
 leensis n. sp., Harris, 2311.
 rugatus n. sp., Dall, 1259.
 singleyi n. sp., Harris, 2307.
 tessellatus n. sp., Dall, 1259.
 tortilis var. *nanafalius* n. var., Harris, 2316.
Laurelia primæva n. sp., Lesquereux, 3470.
Laurinoxylon pulchrum n. sp., Knowlton, 3255.
Laurophyllum angustifolium n. sp., Newberry, 4080.
 ellsworthianum Lesq., Lesquereux, 3470.
 insigne n. sp., Dawson, 1436.
 lanceolatum n. sp., Newberry, 4080.
 minus n. sp., Newberry, 4080.
Laurus angusta Heer, Lesquereux, 3470.
 antecedens n. sp., Lesquereux, 3470.
 grandis Lx., Knowlton, 3255.
 hollæ Heer, Lesquereux, 3470.
 knowltoni n. sp., Lesquereux, 3470.
 montana n. sp., Knowlton, 3255.
 nebrascensis Lesq., Lesquereux, 3470.
 newberryana n. sp., Hollick, 2672.
 perdita n. sp., Knowlton, 3255.
 plutonia Heer, Hollick, 2698.
 plutonia? Heer, Lesquereux, 3472.
 plutonia Heer, Newberry, 4080.
 præstans Lx., Knowlton, 3264.
 primigenia Ung., Hollick, 2708.
 primigenia? Ung., Knowlton, 3255, 3264.
 principes Heer, Knowlton, 3255.
 pseudo-carolinensis Lx., Knowlton, 3255.
 salicifolia, Knowlton, 3235.
 similis n. sp., Knowlton, 3262.
 (*Carpites*) *microcarpa* n. sp., Lesquereux, 3470.
 plutonia Heer, Lesquereux, 3470.
 telformis n. sp., Lesquereux, 3470.
 ? sp., Knowlton, 3264.
Laxispira imbricalis, Harris, 2315.
 lumbicalis, Whitfield, 6097.
Leaia leidy, Dawson, 1454.
Lebedictya n. gen., Hall and Clarke, 2269, 2270.
 crinita n. sp., Hall and Clarke, 2269, 2270.
Lecanocrinus Hall, Weller, 6002.
 greenei n. sp., Miller and Gurley, 3999.
 oswegoensis n. sp., Miller and Gurley, 3997b.
 tennesseensis n. sp., Miller, 3992.
 waukoma (Hall), Weller, 6002.
Lecythiocrinus olliculaformis White, Keyes, 3061.
Leda, Schumacher, Dall, 1272.
 acala n. sp., Dall, 1272.
 acrybia n. sp., Dall, 1272.
 acuta Conrad, Dall, 1272.
 alæformis (Gabb), Stanton, 5198.
 albirupina n. sp., Harris, 2305.
 aldrichiana Har. var., Harris, 2315.

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- Leda amydra* n. sp. (?), Dall, 1272.
bastropensis n. sp., Harris, 2307.
canonica n. sp. (linifera Conrad var.?), Dall, 1272.
catasarca n. sp., Dall, 1272.
concentrica Say, Dall, 1272.
corpulentoides Ald. var., Harris, 2313, 2315.
dabbi (Conrad), Stanton, 5198.
diversa, Hall and Clarke, 976.
dodona n. sp., Dall, 1272.
elongatoidea n. sp., Aldrich, 73.
elongatoidea, Harris, 2313.
elongatoidea var. (?), Harris, 2310.
flexuosa Heilprin, Dall, 1272.
glabba n. sp., Stanton, 5199.
 (?) *harveyi* n. sp., Hill, 2539.
houstonia n. sp., Harris, 2307.
hypsona n. sp., Dall, 1272.
improcera (Conrad), Clark, 906.
lisbonensis n. sp., Aldrich, 73.
marieana n. sp., Aldrich, 74.
marieana, Harris, 2313.
milamensis, Harris, 2310.
multilineata Conrad, Dall, 1272.
parva (Rogers), Clark, 906.
parva, Harris, 2313.
phalacra n. sp. (?), Dall, 1272.
pharcida n. sp., Dall, 1272.
protexta (Conrad), Clark, 906.
protexta, Harris, 2313.
protexta Gabb, Dall, 1272.
quercollis n. sp., Harris, 2310.
regina-jacksonis n. sp., Harris, 2311.
robusta n. sp., Aldrich, 73.
saffordana n. sp., Harris, 2310.
semenoides n. sp., Aldrich, 73.
trochilia n. sp., Dall, 1272.
(Adrana) cultelliformis (Rogers), Clark, 906.
Legumen planulatum Con., Harris, 2315.
Leguminosites atanensis Heer, Newberry, 4080.
constrictus n. sp., Lesquereux, 3470.
convolutus n. sp., Lesquereux, 3470.
coronilloides (?) Heer, Lesquereux, 3470.
coronilloides Heer, Newberry, 4080.
dakotensis n. sp., Lesquereux, 3470.
hymenophyllus n. sp., Lesquereux, 3470.
insularis Heer, Lesquereux, 3470.
lamarensis n. sp., Knowlton, 3255.
lesquere xiana Kn., Knowlton, 3255.
marcouanus Heer, Newberry, 4083.
omphalobioides n. sp., Lesquereux, 3470.
omphalobioides Lesq., Newberry, 4080.
phaseolites (Heer), Lesquereux, 3470.
podogonialis n. sp., Lesquereux, 3470.
truncatus n. sp., Lesquereux, 3470.
Leiocidaris hemigranosa Shumard, Cragin, 1115.
hemigranosus Shumard, Clark, 892.
Leiopteria Hall, Grabau, 2086.
conradi Hall, Grabau, 2086.
rafinesquii Hall, Grabau, 2086.
spinalata (Win.), Weller, 6006.
torreyi? Hall, Lane, 3400.

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- Leiorhynchus* Hall, Grabau, 2086.
dubium Hall, Grabau, 2086.
limitare (Vanuxem), Grabau, 2086.
limitaris, Whitfield, 6099.
multicostus Hall, Grabau, 2086.
quadrucostatum (Vanuxem), Grabau, 2086.
quadrucostatum Vanuxem, Girty, 2035.
Leiostoma (?) *hudoviciana* n. sp., Harris, 2315.
Leiostraca cretacea, Whitfield, 6097.
Leiotrochus Conrad, Whitfield, 6101.
Lepacyclotes circularis Emmons, Ward, 5857.
ellipticus Emmons, Ward, 5857.
Leperditella n. gen., Ulrich, 5540.
canalis n. sp., Ulrich, 5540.
 (?) *dorsicornis* Ulrich, Ulrich, 5540.
germana Ulrich, Ulrich, 5540.
macra n. sp., Ulrich, 5540.
persimilis n. sp., Ulrich, 5540.
Leperditia Ronault, Grabau, 2086, 2092.
Leperditia, Ulrich, 5540.
aquilatera n. sp., Ulrich, 5532.
alia, Whitfield, 6099.
anguilifera, Whitfield, 6099.
fabulites Conrad, Ulrich, 5540.
fimbriata n. sp., Ulrich, 5532.
germana u. sp., Ulrich, 5532.
granilabiata n. sp., 5532.
hudsonica Hall, Grabau, 2086.
inflata n. sp., Ulrich, 5532.
millepunctata n. sp., Ulrich, 5532.
 ? *minor* n. sp., Matthew, 3761.
mundula n. sp., Ulrich, 5532.
okeni Dawson, 1454.
 ? *primæva* n. sp., Matthew, 3761.
 (?) *primitia* *dorsicornis* n. sp., Ulrich, 5532.
 cf. *l. solitaria* Barrand, Burr, 606.
 ? *steadii*, Matthew, 3761.
sublævis (Shumard), Keyes, 3061.
sulcata n. sp. and *ventricornis* n. var., Ulrich, 5532.
tumida n. sp., Ulrich, 5532.
 ? *ventricosa*, Matthew, 3761.
Lepidechinus imbricatus Hall, Keyes, 3077.
rarispinus, Jackson, 2871.
rarispinus Hall, Keyes, 3077.
squamosus (Meek and Worthen), Keyes, 3077.
Lepidendron, McCalley, 3815.
Lepidesthes colletti, Jackson, 2871.
colletti White, Keyes, 3077.
coreyi, Jackson, 2871.
coreyi Meek and Worthen, Keyes, 3077.
formosus, Jackson, 2871.
wortheni n. sp., Jackson, 2871.
Lepidesthidae n. fam., Jackson, 2871.
Lepiditida alata, Matthew, 3770.
auriculata n. sp., Matthew, 3751, 3770.
curta, Matthew, 3770.
sigillata n. sp., Matthew, 3751, 3761.
Lepidocentrus mulleri Schultze, Jackson, 2871.
Lepidocentrus squamosus, Jackson, 2871.
Lepidocoleus jamesi, Clarke, 951.
polypetalus n. sp., Clarke, 951.
sarlei n. sp., Clarke, 951.
Lepidocystis vesicularis Lx., White, 6049.

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Genera and species described—Continued.

- Lepidodendron, Dawson, 1455.
 Lepidodendron Sternberg, White, 6050.
 alabamense n. sp., White, 6052.
 brittsii Lx., White, 6050.
 choctavense n. sp., White, 6049.
 clypeatum Lx., White, 6050, 6052.
 cyclostigma Lx., White, 6046.
 lanceolatum Lx., White, 6050.
 modulatum Lx., White, 6049.
 rimosum var. *recorticatum* n. var., White, 6050.
 scutatum Lx., White, 6050.
 sp., Herrick and Johnson, 2465.
 Lepidolites Ulrich, Winchell and Schuchert, 6318.
 Lepidophloios, Dawson, 1455.
 Lepidophloios Sternberg, White, 6050.
 acadianus Dawson, Dawson, 1455.
 cliftonensis Dawson, 1455, 1456.
 van ingeni n. sp., White, 6050.
 (?) cf. *van ingeni*, White, 6050.
 Lepidophyllum *brevifolium* Lx., White, 6049.
 jenneyi n. sp., White, 6050.
 lanceolatum L. and H., White, 6049.
 cf. *mansfieldi* Lx., White, 6049.
 missouriense n. sp., White, 6050.
 quinnimontanum n. sp., White, 6052.
 truncatum Lx., White, 6049.
 Lepidostrobos *princeps* Lx., White, 6050.
 Lepidoxylon *anomalum* Lx., White, 6050.
 Lepidurus *productus*, Beecher, 36.
 Lepodosteus *atrox* Leidy, Eastman, 1606, 1610.
 simplex Leidy, Eastman, 1606.
 Leptacinus ? *exsucidus* n. sp., Seudder, 4900.
 fossus n. sp., Seudder, 4900.
 leidyi n. sp., Seudder, 4900.
 maclurei n. sp., Seudder, 4900.
 rigatus n. sp., Seudder, 4900.
 Leptæna Dalman, Hall and Clarke, 2260.
 Leptæna Dalman, Winchell and Schuchert, 6319.
 charlottæ, Winchell and Schuchert, 6298, 6319.
 rhomboidalis, Foerste, 1835.
 rhomboidalis Wilckens, Clarke, 971.
 rhomboidalis Wilkens, Girty, 2037, 2038.
 sericea, Sowerby, Keyes, 3062.
 unicostata Meek and Worthen, sp., Winchell and Schuchert, 6319.
 Leptæniscæ Beecher, Hall and Clarke, 2266.
 adnascens n. sp., Hall and Clarke, 2260, 2268.
 tangens n. sp., Hall and Clarke, 2260, 2268.
 Leptærtus *primus* Leidy, Wortman, 6485.
 Leptæcodon *rectus* n. gen. et sp., Williston, 6253.
 Leptella n. gen., Hall and Clarke, 2260.
 Leptichthys n. gen., Stewart, 5245.
 agilis n. sp., Stewart, 5245.
 Leptobolus Hall, Hall and Clarke, 2260.
 grandis n. sp., Matthew, 3751.
 Leptobranchites *gigantea* Haeckel, Walcott, 5811.
 trigonobranchius Haeckel, Walcott, 5811.
 Leptoechelus *gracilis* n. sp., Marsh, 3690.

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- Leptocelia Hall, Hall and Clarke, 2261.
 flabellites Conrad, Clarke, 971.
 Leptodesma, Clarke, 911.
 Leptodora *hyalina*, Beecher, 366.
 Leptograptus *macrotheca* n. sp., Gurley, 2217.
 Leptomaria *gigantea* n. sp., Whitfield, 6097.
 pergranulosa n. sp., Whitfield, 6097.
 perlata, Whitfield, 6097.
 Leptomeryx Leidy, Scott, 4884.
 Leptomeryx, Scott, 4865.
 mannifer Cope, Ami, 84.
 Leptomitus *zitteli* Walcott, Rauff, 4548.
 Lepton Turton, Dall, 1281.
 (?) *alabamensis* n. sp., Aldrich, 74.
 Leptophractus, Case, 767.
 Leptophyllia *agassizi* n. sp., Vaughan, 5734.
 Leptoplastus *spinosus* n. sp., Matthew, 3751.
 Leptopora *gorbyi* n. sp., Miller, 3992.
 Leptopoterion, James, 2881.
 Leptoreodon Wortman, Scott, 4884.
 marshi n. gen. et sp., Wortman, 6493.
 Leptosolen *ottensis* n. sp., Cragin, 1116.
 Leptostrobos (?) *alatus* Ward n. sp., Fontaine, 1850.
 longifolius, Dawson, 1434.
 longifolius Fontaine, Fontaine, 1850.
 ? sp. Fontaine, Ward, 5857.
 Leptostrophia *magnifica* Hall, Clarke, 971.
 oriskania, n. sp., Clarke, 971.
 Leptostyrax n. gen., Williston, 6259.
 Leptotragulus Scott and Osborn, Scott, 4883, 4884.
 Leptotrypa, Simpson, 4983.
 Leptotrypa Ulrich, Ulrich, 5537.
 acervulosa n. sp., Ulrich, 5537.
 claviformis n. sp., Ulrich, 5537.
 hexagonalis Ulrich, 5537.
 informis n. sp., Ulrich, 5537.
 Lepus *sylvaticus* Bachm., Cope, 1104.
 Lernaediscus *porcellanæ*, Beecher, 366.
 Leuciscus *turneri* n. sp., Lucas, 3589.
 Leucozoni *biplicata*, Harris, 2310.
 Leuroceras, Hyatt, 2816.
 Levibuccinum *lineatum* Con., Harris, 2310, 2316.
 Levifusus *branneri* n. sp., Harris, 2305, 2311.
 dolei n. sp., Harris, 2310.
 hubbardi n. sp., Harris, 2310.
 indentus n. sp., Harris, 2315, 2316.
 pagoda, Aldrich, 74.
 pagoda var., Harris, 2310.
 pagoda Heilp., Harris, 2315, 2316.
 supraplanus n. sp., Harris, 2315, 2316.
 suteri n. sp., Aldrich, 73.
 suteri, Harris, 2310.
 trabeatoides n. sp., Harris, 2307.
 trabeatus Con., Aldrich, 73.
 trabeatus Con., Harris, 2311, 2316.
 trabeatus Con. var.?, Harris, 2315.
 trabeatus var., Harris, 2310.
 Lichas *bicornis* n. sp., Ulrich, 5933.
 breviceps Foerste, 1835.
 byrnesianus n. sp., Miller and Gurley, 3997a.
 hanoverensis n. sp., Miller and Gurley, 3997a.

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- Lichas cf. pustulosus Hall, Clarke, 971.
 (Hoplolichas) robbinsi n. sp., Ulrich, 5933.
 (Terataspis) n. sp., Whiteaves, 6074.
 (Terataspis) grandis Hall, Whitfield, 6105.
 Lichenalia Hall, Grabau, 2086.
 Lichenalia Simpson, 4983.
 cf. crassa Hall, Clarke, 971.
 stellata Hall, Grabau, 2086.
 Lichenaria minor n. sp. (Ulrich), Winchell and Schuchert, 6318.
 type n. gen et sp., Winchell and Schuchert, 6318.
 type W. and S., Sardeson, 4810.
 Lima (Bruguière) Cuvier, Dall, 1272.
 generosa n. sp., Cragin, 1115.
 lata?, n. sp., Logan, 3559.
 multilineata n. sp., Stanton, 5199.
 multiradiata Gabb, Stanton, 5197.
 ozarkana n. sp., Harris, 2313.
 pelagica Mort., Harris, 2315.
 retifera Shumard, Keyes, 3062.
 semilævis n. sp., Cragin, 1115.
 utahensis, Stanton, Herrick and Johnson, 2465.
 utahensis n. sp., Stanton, 5191.
 (Ctenoides) scabra Born, Dall, 1272.
 tenera Sowerby, Dall, 1272.
 (Lima) caloosana n. sp., Dall, 1272.
 smirna n. sp., Dall, 1272.
 vicksburgiana n. sp., Dall, 1272.
 tampaensis n. sp., Dall, 1272.
 var. costulata n. sp., Dall, 1272.
 (Man-lum) caloosana n. sp., Dall, 1272.
 carolinensis n. sp., Dall, 1272.
 Limæa solida n. sp., Dall, 1272.
 Limalophus n. gen., Seudder, 4890.
 compositus, Seudder, 4890.
 contractus, Seudder, 4890.
 Limnæa desidiosa Say, Baker, 217.
 Limnæa hermanni, Beecher, 366.
 Limnæa contracosta, n. sp., Cooper, 1071.
 nitidula Meek, White, 6036.
 Limnocema n. gen., Seudder, 4894.
 lutescens, Seudder, 4894.
 marcescens, Seudder, 4894.
 mortoni, Seudder, 4894.
 styx, Seudder, 4894.
 Limnocyon riparius, Marsh, 3719.
 Limnolyops fontinalis, Earle, 1590.
 laticeps, Earle, 1590.
 Limnophila rogersii, Seudder, 4894.
 ruinarum, Seudder, 4894.
 strigosa, Seudder, 4894.
 vasta, Seudder, 4894.
 Limnopus vagus n. gen. et sp., Marsh, 3686.
 Limonius impunctus, Seudder, 4896.
 Limopsis Sassi, Dall, 1272.
 subangularis n. sp., Guppy and Dall, 2214.
 subimbricatus n. sp., Cragin, 1116.
 Limulus polyphemus, Beecher, 366.
 polyphemus, Packard, 4230.
 Lindera masoni n. sp., Lesquereux, 3470.
 venusta n. sp., Lesquereux, 3470.
 Lindströmella n. subgen., Hall and Clarke, 2260.

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- Lindströmella aspidium n. gen. et sp., Hall and Clarke, 2260.
 aspidium, Hall and Clarke, 2268.
 Linearia metastrata, Harris, 2315.
 Lingula Bruguière, Grabau, 2086.
 Lingula Bruguière, Hall and Clarke, 2260.
 Lingula Bruguière, Winchell and Schuchert, 6319.
 compta, Hall and Clarke, 2268.
 antiqua, James, 2893.
 beltrami n. sp., Winchell and Schuchert, 6319.
 cf. billingsiana Whiteaves, Matthew, 3751.
 canadensis Billings?, Winchell and Schuchert, 6319.
 clathrata n. sp., Winchell and Schuchert, 6319.
 cobourgensis Billings?, Winchell and Schuchert, 6319.
 compta n. sp., Hall and Clarke, 2260.
 delia Hall, Grabau, 2086.
 elderi Whitfield, Winchell and Schuchert, 6319.
 elongata Hall, Whiteaves, 6087.
 eva Billings, Winchell and Schuchert, 6319.
 flabellula n. sp., Hall and Clarke, 2260.
 gorbyi n. sp., Miller, 3995.
 howleyi n. sp., Matthew, 3767.
 indianensis n. sp., Miller and Gurley, 3997a.
 cf. iole Billings, Cleland, 1012.
 iowensis Owen, Whiteaves, 6087.
 iowensis Owen, Winchell and Schuchert, 6319.
 ligæa (?), Whitfield, 6099.
 lingulata n. sp., Hall and Clarke, 2260.
 lingulata, Hall and Clarke, 2268.
 mami, Whitfield, 6099.
 membranacea Win., Weller, 6006.
 modesta Ulrich, Winchell and Schuchert, 6319.
 mytiloides Sowerby?, Girty, 2037.
 cf., oblata, Hall and Clarke, 976.
 obtusa Hall, Whiteaves, 6087.
 paracletus n. sp., Hall and Clarke, 2260, 2268.
 parrishi n. sp., Miller, 3995.
 philomela Billings, Winchell and Schuchert, 6319.
 cf. rectilatera Hall, Clarke, 971.
 rieiniiformis Hall, Winchell and Schuchert, 6319.
 var. galensis W. and S., Winchell and Schuchert, 6298, 6319.
 scutella n. sp., Hall and Clarke, 2260, 2268.
 sedaliensis n. sp., Miller, 3995.
 shumardi n. sp., Cragin, 1115.
 spatulata Vanuxem, Grabau, 2086.
 tæniola, Hall and Clarke, 2268.
 umbonata Cox, Keyes, 3062.
 vanhornii, Miller, 3995.
 (Glossini) deflecta, Winchell and Schuchert, 6298.
 (Glossina) flabellula, Hall and Clarke, 2268.

Paleontology—Continued.

Genera and species described—Continued.

- Lingula* (*Glossina*) *hurlburti* N. H. Winchell, Winchell and Schuchert, 6319.
deflecta W. and S., Winchell and Schuchert, 6319.
 (*Glossina*) *leana* Hall, Grabau, 2086.
 (*Lingulipora*) *williamsana* n. sp., Girty, 2035.
Lingulasma Ulrich, Hall and Clarke, 2260.
Lingulasma Ulrich, Winchell, and Schuchert, 6319.
 galenensis, Winchell and Schuchert, 6298, 6319.
Lingulella Salter, Hall and Clarke, 2260.
 cuneata n. sp., Matthew, 3751.
 (?) *inflata*, Matthew, 3761.
 var. *ovalis* n. var., Matthew, 3761.
 lamborni Meek, Keyes, 3062.
 martincensis, Matthew, 3761.
 cf. *granvillensis* Walcott, Matthew, 3761.
 roberti n. sp., Matthew, 3767.
 rogersi Walcott, Grabau, 2092.
 selwyni n. sp., Matthew, 3767.
 subgenus of *Obolus*, Walcott, 5813.
Lingulepis Hall, Hall and Clarke, 2260.
 acuminata Conrad, Matthew, 3767.
 meeki n. sp., Walcott, 5807.
Lingulina *carinata* d'Orbigny, Bagg, 150.
Lingulipora n. subgen., Girty, 2035.
Lingulobolus n. gen., Matthew, 3767.
 affinis (Billings), Grabau, 2092.
 affinis, Bill. sp., Matthew, 3767.
 var. *cuneata*, Matthew, 3767.
Lingulops Hall, Hall and Clarke, 2260.
 derbyi, n. sp., Clarke, 976.
 granti, n. sp., Hall and Clarke, 2260, 2268.
Linnarssonia Walcott, Hall and Clarke, 2260.
 belti Dav. mut. *magna* n. mut., Matthew, 3776.
 transvera Hartt, Matthew, 3761.
Linthia *tumidula* Clark, Clark, 892.
Linuparus A. White, Woodward, 6442.
 atavus n. sp., Ortmann, 4156.
 vancouverensis Whiteaves sp., Woodward, 6442.
 (*Podarates*) *vancouverensis* Whiteaves sp., Woodward, 6442.
 canadensis Whiteaves sp., Woodward, 6442.
Lochlamys *bulbosa* Heilprin, Dall, 1259.
Liopeplum Dall, Dall, 1259.
 spillmani Dall, Dall, 1259.
 subjugosum Dall, Dall, 1259.
Lioipistha *concentrica* Stanton, Herrick and Johnson, 2465.
 (*Psilomya*) *concentrica* n. sp., Stanton, 5191.
 elongata Stanton, Herrick and Johnson, 2465.
 elongata, n. sp., Stanton, 5191.
 meeki White, Herrick and Johnson, 2465.
 meeki White, Stanton, 5191.
Lioplacodes *veterinus* Meek, Logan, 3559.
Lioplax *floridana* n. sp., Dall, 1269.
 ? *endlichi* White, White, 6036.

Paleontology—Continued.

Genera and species described—Continued.

- Liopteria* *browni* n. sp., Clarke, 976.
 sawkinsi n. sp., Clarke, 976.
 speciosa n. sp., Miller and Gurley, 4002.
 subovata n. sp., Miller and Gurley, 4002.
Linopteris *gilkersonensis* n. sp., White, 6050.
Liorhynchus Hall, Hall and Clarke, 2261a.
 haguei n. sp., Girty, 2038.
 lesleyi n. sp., Hall and Clarke, 2261a, 2263, 2268.
 robustus, Hall and Clarke, 6268.
Liospira n. gen., Ulrich and Scofield, 5541.
 abrupta n. sp., Ulrich and Scofield, 5541.
 americana Billings, Ulrich and Scofield, 5541.
 angulata n. sp., Ulrich and Scofield, 5541.
 angustata n. sp., Ulrich and Scofield, 5541.
 decipiens n. sp., Ulrich and Scofield, 5541.
 micula Hall, Ulrich and Scofield, 5541.
 (?) *mundula* n. sp., Ulrich and Scofield, 5541.
 obtusata n. sp., Ulrich and Scofield, 5541.
 persimilis n. sp., Ulrich and Scofield, 5541.
 progne Billings, Ulrich and Scofield, 5541.
 rugata n. sp., Ulrich and Scofield, 5541.
 subconca n. sp., Ulrich and Scofield, 5541.
 vitruvia Billings, Ulrich and Scofield, 5541.
Liostracus? *jerseyensis* n. sp., Weller, 6004.
 onangondianus, Beecher, 366.
 parvus n. sp., Walcott, 5816.
 validus n. sp., Matthew, 3776.
Liothyrida Oehlert, Hall and Clarke, 2264.
Liotia *granulata* Lea, Harris, 2316.
 veresimilis n. sp., Guppy and Dall, 2214.
 (*Arene*) *agenea* n. sp., Dall, 1259.
 coronata n. sp., Dall, 1259.
 melium n. sp., Dall, 1259.
 paramata n. sp., Dall, 1259.
 solariella Heilprin, Dall, 1259.
Liquidambar *europæum* Al. Br., Newberry, 4083.
 integrifolium Lesq., Lesquereux, 3478.
 obtusilobatus (Heer) Hollick, Newberry, 4083.
Liriodendron, Hollick, 2682.
Liriodendron, Holm, 2713.
Liriodendron Linnaeus, Newberry, 4080.
 acuminatum Lesq., Lesquereux, 3470.
 acuminatum var. *bilobatum* n. var., Lesquereux, 3470.
 alatum Newb., MSS., Hollick, Knowlton, 3264.
 giganteum Lesq., Lesquereux, 3470.
 var. *cruciforme* Lesq., Lesquereux, 3470.
 intermedium Lesq., Lesquereux, 3470.
 laramiense Ward, Knowlton, 3264.
 meekii (Heer), Newberry, 4083.
 obcordatum Lesq., Lesquereux, 3470.
 oblongifolium Newb., Newberry, 4080.
 pinnatifidum Lesq., Lesquereux, 3470.
 prætulipiferum n. sp., Dawson, 239.
 primævum Newb., Lesquereux, 3470.
 primævum Newb., Newberry, 4083.
 quercifolium Newb., Newberry, 4080.

Paleontology—Continued.

Genera and species described—Continued.

- Liriodendron semialatum* Lesq., Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
succedens n. sp., Dawson, 1436.
wellingtonii n. sp., Lesquereux, 3470.
Liriodendropsis n. gen., Newberry, 4080.
angustifolia n. sp., Newberry, 4080.
simplex Newb., Newberry, 4080.
Liropecten estrellanus Conrad, Cooper, 1071.
Lispoceras, Hyatt, 2816.
rotundum n. sp., Hyatt, 2816.
trivolve n. sp., Hyatt, 2816.
Lispodesthes nuptialis White, Stanton, 5191.
Lissopleura n. gen., Whitfield, 6103.
Lithapium, Matthew, G. F., 3760.
Lithocharis scottii n. sp., Scudder, 4900.
Lithocoryne gravis n. sp., Scudder, 4900.
Lithodomus claibornensis Con., Aldrich, 73.
gainesensis n. sp., Harris, 2310.
Lithophaga Bolten, Dall, 1272.
antillarum d'Orbigny, Dall, 1272.
(?) batesvillensis n. sp., Weller, 5986.
nigra d'Orbigny, Dall, 1272.
nuda n. sp., Dall, 1272.
subalveata, Whitfield, 6101.
sp.?, Keyes, 3062.
(Diverus) bisulcata d'Orbigny, Dall, 1272.
(Myoforceps) aristata Dillwyn, Dall, 1272.
Lithophthorus n. gen., Scudder, 4890.
rugosicollis, Scudder, 4890.
Lithostrotion macounii n. sp., Lambe, 3375.
mamillare Castelnau, Keyes, 3061.
sp., Girty, 2038.
Litoceras biangulatum n. sp., Hyatt, 2819.
hercules, Hyatt, 2819.
insolens (?), Hyatt, 2819.
potosina n. sp., Aguilera, 57.
versutum Billings, Whiteaves, 6089.
whiteavesi, Hyatt, 2819.
Litsea cretacea n. sp., Lesquereux, 3470.
cuneata n. sp., Knowlton, 3255.
falcifolia n. sp., Lesquereux, 3470.
Littorina subobesa n. sp., Cooper, 1072.
Lituites, Hyatt, 2819.
? complanatus Shumard, Keyes, 3062.
robertsoni, Whitfield, 6102.
undatus var. *occidentalis*, Whitfield, 6102.
Litsea weediana n. sp., Knowlton, 3222.
Lobocrinus W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
aequibrachiatus (McChesney), Wachsmuth and Springer, 5765a.
aequibrachiatus var. *asterisus* (Meek and Worthen) Wachsmuth and Springer, 5765a.
? hageri (McChesney), Wachsmuth and Springer, 5765a.
inflatus (Rowley and Hare), Wachsmuth and Springer, 5765a.
longirostris (Hall), Wachsmuth and Springer, 5765a.
nashvillae (Trocst), Wachsmuth and Springer, 5765a.
nashvillae var. *subtractus* (White), Wachsmuth and Springer, 5765a.
pyriformis (Shum.), Wachsmuth and Springer, 5765a.

Paleontology—Continued.

Genera and species described—Continued.

- Lobocrinus robustus* W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
spiniferus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
yandelli (Shumard), Wachsmuth and Springer, 5765a.
Loculipora Hall, Grabau, 2086.
Loculipora Simpson, 4983.
perforata Hall, Grabau, 2086.
Lomatia saportanea Lesq., Lesquereux, 3470.
Lonchocarpus novae-caesareae n. sp., Hollick, 2686.
Lonchopteris oblonga (Emmons) Fontaine, Ward, 5857.
Lonsdaleia pictoense Billings sp., Lambe, 3375.
Lophiodon Cuvier, Osborn and Wortman, 4192.
Lopholasma, n. gen., Simpson, 4984.
Lophophyllum proliferum (McChesney), Keyes, 3061.
Lophospira Whitfield, Ulrich and Scofield, 5541.
abnormis n. sp., Ulrich and Scofield, 5541.
acuminata n. sp., Ulrich and Scofield, 5541.
ampla n. sp., Ulrich and Scofield, 5541.
augustina Billings, Ulrich and Scofield, 5541.
var. minnesotensis n. var., Ulrich and Scofield, 5541.
bicincta Hall, Ulrich and Scofield, 5541.
bowdeni Safford, Ulrich and Scofield, 5541.
centralis n. sp., Ulrich and Scofield, 5541.
concinnum n. sp., Ulrich and Scofield, 5541.
conoidea n. sp., Ulrich and Scofield, 5541.
conradana n. sp., Ulrich and Scofield, 5541.
decursa n. sp., Ulrich and Scofield, 5541.
elevata n. sp., Ulrich and Scofield, 5541.
filmorensis n. sp., Ulrich and Scofield, 5541.
helieteres var. *wisconsinensis* n. var., Ulrich and Scofield, 5541.
humilis n. sp., Ulrich and Scofield, 5541.
medialis n. sp., Ulrich and Scofield, 5541.
var. burginensis n. var., Ulrich and Scofield, 5541.
multigruma Miller, Ulrich and Scofield, 5541.
obliqua n. sp., Ulrich and Scofield, 5541.
oweni n. sp., Ulrich and Scofield, 5541.
peracuta n. sp., Ulrich and Scofield, 5541.
perangulata Hall, Ulrich and Scofield, 5541.
perforata n. sp., Ulrich and Scofield, 5541.
perlamellosa n. sp., Ulrich and Scofield, 5541.
procera n. sp., Ulrich and Scofield, 5541.
producta n. sp., Ulrich and Scofield, 5541.
pulchella n. sp., Ulrich and Scofield, 5541.
quadriruleata n. sp., Ulrich and Scofield, 5541.
saffordi n. sp., Ulrich and Scofield, 5541.
serrulata Salter, Ulrich and Scofield, 5541.
spironema n. sp., Ulrich and Scofield, 5541.

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Genera and species described—Continued.

- Lophospira summerensis Safford, Ulrich and Scofield, 5541.
 tenuistriata n. sp., Ulrich and Scofield 5541.
 (? Seelya) (?) knoxvillensis n. sp., Ulrich and Scofield, 5541.
 lirata n. sp., Ulrich and Scofield, 5541
 (?) notabilis n. sp., Ulrich and Scofield, 5541.
 (?) trochonemoides n. sp., Ulrich and Scofield, 5541.
 Loricera glacialis, Seudder, 4896.
 ? lutosa, Seudder, 4896.
 Loxonema Phillips, Grabau, 2086.
 altivolvus n. sp., Whiteaves, 6074.
 attenuatum Hall ?, Girty, 2037.
 boydii Hall, Whiteaves, 6080.
 breviculum Hall, Grabau, 2086.
 cingulatum n. sp., Whiteaves, 6074.
 ? coapta Hall, Grabau, 2086.
 delicatum n. sp., Girty, 2038.
 delphicola Hall, Grabau, 2086.
 graecillum n. sp., Whiteaves, 6074.
 hamiltoniae Hall, Grabau, 2086.
 magnum Whitfield, var., Whiteaves, 6080.
 multicosta Meek and Worthen, Keyes, 3062.
 oligospira Win., Weller, 6006.
 parvulum, Whitfield, 6099.
 plicatum, Whitfield, 6099.
 seitulum Meek and Worthen, Keyes, 3062.
 shumardana (Win.), Weller, 6006.
 tenuilineatum (Shumard), Keyes, 3062.
 winnipegense n. sp., Whiteaves, 6076.
 winnipegense Whiteaves, Whiteaves, 6087.
 (?) sp., Girty, 2038.
 sp., Weller, 5994, 6006.
 Loxoploeus solutus Whiteaves, Whiteaves, 6080.
 Lucapina suffusa Reeve, Dall, 1259.
 Lucifer, Beecher, 366.
 Lucina acclinis (?), Whitfield, 6101.
 anodonta, Say, 4813.
 aquiana n. sp., Clark, 904, 906.
 astartiformis n. sp., Aldrich, 74.
 astartiformis, Harris, 2313.
 elaytonia n. sp., Harris, 2310.
 coetol n. sp., Aguilera, 57.
 colusaensis n. sp., Stanton, 5199.
 contracta, Say, 4813.
 crenulata, Whitfield, 6101.
 cribraria, Say, 4813.
 dartoni n. sp., Clark, 904, 906.
 divaricata, Say, 4813.
 fortidentalis n. sp., Harris, 2310.
 greggi n. sp., Harris, 2313, 2315.
 juvenis n. sp., Stanton, 5191.
 livonensis (?) n. sp., Clarke, 946.
 occidentalis Morton, Logan, 3554.
 ovalis n. sp., Stanton, 5199.
 ozarkana n. sp., Harris, 2213, 2315.
 pauperata n. sp., Guppy and Dall, 2214.
 pomilia, Harris, 2313.
 potosina n. sp., Aguilera, 57.
 subobliqua, Say, 4983.

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Genera and species described—Continued.

- Lucina subundata H. and M., Stanton, 5191.
 symmetrica (?), Harris, 2313.
 textilis n. sp., Guppy and Dall, 2214.
 trisulcata, Whitfield, 6101.
 turneri n. sp., Stanton, 5198.
 uhleri n. sp., Clark, 904, 906.
 ulrichi, Harris, 2313.
 whitei n. sp., Clark, 904, 906.
 Lunatia concinna Hall and Meek (sp.), Stanton, 5191.
 halli, Whitfield, 6097.
 hornii Gabb, Stanton, 5198.
 marylandica Conrad, Clarke, 906.
 Lunulicardia Gray, Dall, 1281.
 Lunulicardium Munster, Grabau, 2086.
 curtum Hall, Grabau, 2086.
 fragile Hall, Grabau, 2086.
 grande n. sp., Miller and Gurley, 4002.
 (?) lineolatum n. sp., Clarke, 946.
 livoniae n. sp., Clarke, 946.
 retrorsum n. sp., Miller and Gurley, 4002.
 Lutra rhoadsii n. sp., Cope, 1101, 1104.
 Lutraria Lamarek, Dall, 1272.
 senna, James, 2894.
 Lycophoria Lahusen, Hall and Clarke, 2261a, 2264.
 Lycopodium lesquereuxiana n. sp., Knowlton, 3264.
 Lycosaurus, Case, 768.
 Lyellia Milne-Edwards and Haime, Lambe, 3374.
 affinis Billings, Lambe, 3374.
 americana Milne-Edwards and Haime, Lambe, 3374.
 decipiens Rominger, Lambe, 3374.
 exigua Billings (sp.), Lambe, 3374.
 superba Billings, Lambe, 3374.
 Lygodium kaulfussii Heer, Knowlton, 3255.
 kaulfussi Heer, Newberry, 4083.
 neuropteroides Lesquereux, Dawson, 1448.
 Lynx calcaratus Cope, Cope, 1104.
 Lyopora Nieh. and Eth. jun., Lambe, 3374.
 Lyra cumberland, Hall and Clarke, 2264.
 Lyria costata Sowerby, Dall, 1259.
 musica Heilprin, Dall, 1259.
 pulchella Sowerby, Dall, 1259.
 wilcoxiana n. sp., Aldrich, 70.
 wilcoxiana, Harris, 2310.
 Lyrioerinus Hall, Weller, 6002.
 melissa Hall, Weller, 6002.
 Lyriopecten sp.?, Clarke, 971.
 Lyrodesma Conrad, Ulrich, 5539.
 acuminatum n. sp., Ulrich, 5539.
 eannonense n. sp., Ulrich, 5539.
 conradi n. sp., Ulrich, 5535.
 grande n. sp., Ulrich, 5535.
 inornatum n. sp., Ulrich, 5535.
 subplanum n. sp., Ulrich, 5535.
 Lyrodietya Hall, Hall and Clarke, 2269, 2271.
 (?) burlingtonensis Hall (sp.), Hall and Clarke, 2269, 2271.
 romingeri Hall, Hall and Clarke, 2269, 2271.
 Lyropora, Simpson, 4983.

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- Lyropora goldfussi* Billings (sp.), Lambe, 3374.
retrosa Meek and Worthen, Keyes, 3062.
Lyroporella, Simpson, 4983.
Lyroporidra n. gen., Simpson, 4983.
Lyroporina n. gen., Simpson, 4980.
Lyrosoma Conrad, Whitfield, 6101.
suleosa, Whitfield, 6101.
Lyrtoceras batesi (Trask), Stanton, 5199.
jukesii Sharpe, Whiteaves, 6085.
Lysactinella n. gen., Girty, 2034.
Lysactinella Girty, Hall and Clarke, 2269, 2270.
gebhardi n. sp., Girty, 2034.
perelegans n. sp., Girty, 2034.
Lysorophus tricarinatus Cope, Case, 773.
Lytoeras Suess, Smith, 5052.
alamedense n. sp., Smith, 5052.
Lyttonia Waagen, Hall and Clarke, 2261a, 2264.
Macandrevia King, Hall and Clarke, 2264.
(Antiptychina Zittel), Hall and Clarke, 2264.
(Aulacothyris Douville), Hall and Clarke, 2264.
(Camerothyris Bittner), Hall and Clarke, 2264.
(Epicyrta Deslongchamps), Hall and Clarke, 2264.
(Eudesia King), Hall and Clarke, 2264.
(Fimbriothyris Deslongchamps), Hall and Clarke, 2264.
(Microthyris Deslongchamps), Hall and Clarke, 2264.
(Orthotoma Quenstedt), Hall and Clarke, 2264.
(Plesiothyris Douville), Hall and Clarke, 2264.
(Zeilleria Bayle), Hall and Clarke, 2264.
Macelintoekia cretacea Heer, Lesquereux, 3470.
trinervis Heer, Dawson, 3470.
Macharodus Kaupp, Cope, 1104.
crassidens Cragin, Williston, 6228.
gracilis Cope, Cope, 1104.
Machurea (Leuseur) Woodward, Ulrich and Scofield, 5541.
affinis Bill., Whitfield, 6106.
bigsbyi Hall, Ulrich and Scofield, 5541.
var. dixonensis n. var., Ulrich and Scofield, 5541.
bigsbyi, Whitfield, 6102.
erassa n. sp., Ulrich and Scofield, 5541.
var. macra n. var., Ulrich and Scofield, 5541.
depressa n. sp., Ulrich and Scofield, 5541.
knoxvillensis n. sp., Ulrich and Scofield, 5541.
magna (Le Sueur), Keyes, 3062.
manitobensis, Whiteaves, 6076.
nitida n. sp., Ulrich and Scofield, 5541.
Macluria (Maclurina) manitobensis Whiteaves, Whiteaves, 6087.
Maclurina n. gen., Ulrich and Scofield, 5541.
cuneata Whitfield, Ulrich and Scofield, 5541.

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- Maclurina manitobensis* Whiteaves, Ulrich and Scofield, 5541.
subrotunda Whitfield, Ulrich and Scofield, 5541.
Macoma Leach, Dall, 1281.
alumensis n. sp., Dall, 1281.
balthica Linné, Dall, 1281.
calcareo Gmelin, Dall, 1281.
(?) calhounensis n. sp., Dall, 1281.
conradi n. sp., Dall, 1281.
constricta Bruguiere, Dall, 1281.
irma n. sp., Dall, 1281.
kelseyi n. sp., Dall, 1281.
laxa n. sp., Dall, 1281.
lenis Conrad, Dall, 1281.
lyelli Dall, 1281.
tenta Say, Dall, 1281.
virginiana Conrad, Dall, 1281.
(Cymatocera) Vendryesi n. sp., Dall, 1281.
(Psammacoma) aurora Hanley, Dall, 1281.
brevifrons Say, Dall, 1281.
? holmesii n. sp., Dall, 1281.
olivella n. sp., Dall, 1281.
? producta Conrad, Dall, 1281.
tageliformis n. sp., Dall, 1281.
tracta n. sp., Dall, 1281.
(Rexithaerus) secta Conrad, Dall, 1281.
Macrepistius arenatus n. gen. et sp., Cope, 1093.
Macrocaris n. gen., Miller, 3995.
gorbyi n. sp., Miller, 3995.
Macrochilina blairi n. sp., Miller, 3992.
pulchella n. sp., Whiteaves, 6074.
Macrocerinus W. and Sp. (nov. gen.), Wachsmuth and Springer, 5765a.
carica (Hall), Wachsmuth and Springer, 5765a.
gemmaformis (Hall), Wachsmuth and Springer, 5765.
juemundus (M. and G.), Wachsmuth and Springer, 5765a.
konincki (Shum.), Wachsmuth and Springer, 5765a.
lagunculus (Hall), Wachsmuth and Springer, 5765a.
verneuiliatus (Shum.), Wachsmuth and Springer, 5765a.
Macrodon Lyeett, Grabau, 2086.
Macrodon Lyeett, Woods, 6431.
blairi n. sp., Miller and Gurley, 4002.
cochlearis Win., Weller, 6006.
facetus n. sp., Miller and Gurley, 4002.
hamiltoniae Hall, Grabau, 2086.
modesta (Win.), Weller, 6006.
obsoletus Meek, Keyes, 3062.
pettisensis n. sp., Miller and Gurley, 4002.
pygmaeus n. sp., Whiteaves, 6074.
sangamonensis? Worthen, Keyes, 3062.
tenuistriatus Meek and Worthen, Keyes, 3062.
sp., Weller, 5994.
Macrochilus priseus, Whitfield, 6099.
regularis, Whitfield, 6099.
subcorpulentus, Whitfield, 6099.
Macrochilina keyesi n. sp., Rowley, 4677a.

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- Macrochilina tantilla n. sp., Rowley, 4677a.
 Macon philadelphicus n. sp., Harris, 2316.
 Maconotella n. gen., Ulrich, 5540.
 seofieldi n. sp., Ulrich, 5540.
 Macropetalichthys, Eastman, 190.
 Macrorhopus intutus, Scudder, 4890.
 Macrostylocerinus Hall, Weller, 6002.
 indianensis n. sp., Miller and Gurley, 3997d.
 obconicus n. sp., Weller, 6002.
 semiradiatus (Hall), Weller, 6002.
 striatus Hall, Weller, 6002.
 subglobosus n. sp., Weller, 6002.
 Macrotaeniopteris vancouverensis n. sp., Dawson, 1436.
 Macrotaeniopteris californica Fontaine, Ward, 5857.
 magnifolia Schimper, Ward, 5857.
 magnifolia (Rogers) Schimper, Ward, 5857.
 nervosa Fontaine, Ward, 5857.
 Maetra Lamarek, Dall, 1272.
 Maetra Linné, Dall, 1272.
 albirupina n. sp., Harris, 2305.
 antiqua n. sp., Cragin, 1116.
 antiqua, Stanton, 5197.
 bistriata Har., Harris, 2315.
 catilliformis Conrad, Dall, 1263.
 chipolana n. sp., Dall, 1272.
 clathrodon Lea, Dall, 1272.
 dolabriformis Conrad, Dall, 1263.
 emmonsii Meek, Logan, 3554.
 emmonsii Meek, Stanton, 5191.
 formosa, Meek, Herrick and Johnson, 2465.
 hemphilli n. sp., Dall, 1263.
 huerfanensis n. sp., Stanton, 5191.
 literals, Harris, 2309.
 mississippiensis Con. var., Harris, 2315.
 pretenuis var. bistriata, Harris, 2313.
 pulchella n. sp., Herrick and Johnson, 2465.
 (Celomactra) Dall, Dall, 1272.
 (Cymbophora?) utahensis Meek, Stanton, 5191.
 (Mactrella) Gray, Dall, 1272.
 darienensis n. sp., Dall, 1272.
 (Mactroderma) Dall, 1272.
 (Mactrotoma) Dall, 1272.
 cymata n. sp., Dall, 1272.
 fragilis Gmelin, Dall, 1272.
 undula n. sp., Dall, 1272.
 willcoxi n. sp., Dall, 1272.
 (Mulinia?) lateralis, Whitfield, 6101.
 (Schizodesma) delumbris, Whitfield, 6101.
 Mactropsis Conrad, Dall, 1272.
 Madracis ganei n. sp., Vaughan, 5735.
 gregorioi n. sp., Vaughan, 5735.
 johnsoni n. sp., Vaughan, 5735.
 Magas Sowerby, Hall and Clarke, 2264.
 Magasella Dall, Hall and Clarke, 2264.
 Magdalis sedimentorum, Scudder 4890.
 Magellania Bayle, Hall and Clarke, 2264.
 Magnolia alternans Heer, Lesquereux, 3472.
 alternans Heer (?), Newberry, 4080, 4083.
 amplifolia Heer, Lesquereux, 3472.
 auriculata n. sp., Newberry, 4080.

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- Magnolia boulayana n. sp., Lesquereux, 3472.
 capellini Heer, Dawson, 1436.
 culveri n. sp., Knowlton, 3255.
 elliptica Newb. n. sp., Newberry, 4083.
 glaucoides n. sp., Newberry, 4080.
 hilgardiana Lx., Hollick, 2708.
 laoeana n. sp., Lesquereux, 3472.
 laoeana Lesq., Newberry, 4080.
 lanceolata Lx., Hollick, 2708.
 longifolia n. sp., Newberry, 4080.
 longifolia Newb. (?), Hollick, 2708.
 longipes n. sp., Newberry, 4080.
 microphylla n. sp., Knowlton, 3255.
 obovata Newb., Newberry, 4083.
 obtusata Heer, Lesquereux, 3472.
 occidentalis n. sp., Dawson, 1436.
 (?) pollardi n. sp., Knowlton, 3255.
 pseudocacuminata n. sp., Lesquereux, 3472.
 pulchra Ward, Knowlton, 3264.
 rotundifolia Newb., Newberry, 4083.
 spectabilis n. sp., Knowlton, 3255.
 tenuifolia Lesq., Lesquereux, 3472.
 tenuinervis Lx., Knowlton, 3264.
 van ingeni n. sp., Hollick, 2672.
 woodbridgensis Hollick n. sp., Newberry, 4080.
 woodringensis Hollick, Hollick, 2696, 2698.
 Major Ulrich, Ulrich, 5539.
 Malapoenna lamarensis n. sp., Knowlton, 3255.
 macrophyloides n. sp., Knowlton, 3264.
 Manapsis n. gen., Scudder, 4894.
 anomala, Scudder, 4894.
 Mangilia consentanea n. sp., Guppy and Dall, 2214.
 (Pleurotomella) bellistriata n. sp., Clark, 904, 906.
 Mangilia suturalis n. sp., Cooper, 1071.
 Manicaria haydeni Newb., Newberry, 4083.
 sp., Dawson, 1448.
 Manicina pliocenica n. sp., Gane, 1934.
 Mannia Dewalque, Hall and Clarke, 2264.
 Manteodon subquadratus Cope, Earle, 1589.
 Mantioceras accelerans n. sp., Clarke, 960.
 apprimatum n. sp., Clarke, 960.
 contractum n. sp., Clarke, 960.
 fasciculatum n. sp., Clarke, 960.
 nodifer Clarke, Clarke, 960.
 oxy, n. sp., Clarke, 960.
 pattersoni Hall (sp.), Clarke, 960.
 var. styliophilum, n. var., Clarke, 960.
 rhynchostoma n. sp., Clarke, 960.
 simulator Hall (sp.), Clarke, 960.
 sororium n. sp., Clarke, 960.
 tardum n. sp., Clarke, 960.
 vagans n. sp., Clarke, 960.
 Margarita abyssina, Whitfield, 6097.
 brownii n. sp., Cragin, 1118.
 marcouana n. sp., Cragin, 1116.
 tampaensis n. sp., Dall, 1259.
 (Solariella) newberryi n. sp., Cragin, 1116.
 Margaritana subangulata n. sp., Cooper, 1070.
 Margaritella abbotti, Whitfield, 6097.
 Marginella amina n. sp. Guppy and Dall, 2214.
 aurora n. sp., Dall, 1259.
 ballista n. sp., Dall, 1259.

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- Marginella bella* Conrad, Dall, 1259.
denticulata Conrad, Dall, 1259.
domingoensis n. sp., Guppy and Dall, 2214.
elegantula n. sp., Dall, 1259.
eulima n. sp., Dall, 1259.
faunula n. sp., Dall, 1259.
floridana n. sp., Dall, 1259.
gravida n. sp., Dall, 1259.
latissima n. sp., Guppy and Dall, 2214.
limatula Conrad, Dall, 1259.
limonensis n. sp., Guppy and Dall, 2214.
pardallis Dall (*apicina* Menke var.?), Dall, 1259.
newmani n. sp., Dall, 1259.
onchidella n. sp., Dall, 1259.
precursor n. sp., Dall, 1259.
semen Lea, Dall, 1259.
solitaria n. sp., Guppy and Dall, 2214.
styria Dall, 1259.
tempæ Dall (*ballista* var.?), Dall, 1259.
virginiana Conrad, Dall, 1259.
wilcoxiana n. sp., Dall, 1259.
(Persicula) arcuata n. sp., Guppy and Dall, 2214.
(Volntella) amiantula n. sp., Dall, 1259.
dacria n. sp., Dall, 1259.
- Marginulina ensis* Reuss, Baggs, 150.
pediformis Bornemann, Baggs, 150.
trilobata d'Orbigny, Baggs, 150.
- Mariacrinus* Hall, James, 2889.
aureatus n. sp., Miller, 3992.
gramulosus n. sp., Miller, 3992.
harrisi S. A. Miller, James, 2889.
- Mariopteris capitata* n. sp., White, 6049.
eremopteroides n. sp., White, 6052.
mazoniana Lx. sp., White, 6040.
muricata (Schloth) Zeill., White, 6049.
cf. nervosa (Brongn.) Zeill., White, 6050.
occidentalis n. sp., White, 6045.
villosa n. var., White, 6049.
pottsvillea n. sp., White, 6052.
pygmaea n. sp., White, 6052.
sillimanni (Brongn.), White, 6049.
sphenopteroides (Lx.) Zeill., White, 6050.
tennesseana n. sp., White, 6052.
(Pseudopteropteris) decipiens Lx. sp., White, 6040.
sp., White, 6050.
n. sp.,? White, 6050.
- Marsilea? attenuata* (Lx.) Hollick, Knowlton, 3264.
- Marsupioecrinus* Phill., Wachsmuth and Springer, 5765a.
- Marsupioecrinus* Phillips, Weller, 6002.
chicagoensis, n. sp., Weller, 6002.
praematurus (Hall and Whitf.), Wachsmuth and Springer, 5765a.
striatus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
tennesseensis (Roemer), Wachsmuth and Springer, 5765a.
tentaculatus (Hall), Wachsmuth and Springer, 5765a.
- Martesia* Leach, Dall, 1272.
dalliana n. sp., Harris, 2310.

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- Martesia elongata*, Harris, 2313.
? ovalis n. sp., Dall, 1272.
texana n. sp., Harris, 2307.
- Martinia rostrata* n. sp., Girty, 2038.
- Mastentes* n. gen., Scudder, 4890.
rupis, Scudder, 4890.
saxifer, Scudder, 4890.
- Mastodon americanus* Leidy, Cope, 1104.
floridanus, Leidy, 3447.
successor n. sp., Cope, 1079.
- Mastodontosaurus*, Case, 767.
- Matamynodon planifrons* S. & O., Osborn and Wortman, 4192.
- Matheria* Billings, Ulrich, 5539.
rugosa n. sp., Ulrich, 5534, 5539.
- Mathilda leana* Ald., Harris, 2316.
plexita n. sp., Guppy and Dall, 2214.
regularis Meyer, Aldrich, 74.
- Matonidium althausii* (Dunker) Ward n. comb., Fontaine, 1850.
- Mazzalina costata* n. sp., Dall, 1259.
dalli n. sp., Harris, 2305.
impressa, Harris, 2310.
inaurata var. Con., Harris, 2311.
oweni Dall, 1259.
plena Ald., Harris, 2315.
var. plenus, Harris, 2316.
- Mazonia* Meek and Worthen, Scudder, 4897.
acadica, Scudder, 4897.
sp., Scudder, 4897.
- Medusichnites* Matthew, Walcott, 5811.
- Medusida* Walcott, Walcott, 5811.
atava Pohlig, Walcott, 5811.
bicincta Haeckel, Walcott, 5811.
costata Torrell (sp.), Walcott, 5811.
deperdita Beyrich (sp.), Walcott, 5811.
porpitina Haeckel, Walcott, 5811.
princeps Torrell (sp.), Walcott, 5811.
quadrata Haeckel, Walcott, 5811.
radiata Linnarsson (sp.), Walcott, 5811.
staurophora Haeckel, Walcott, 5811.
- Medusites* cretaceous Kner, Walcott, 5811.
helgolandicus Brandt, Walcott, 5811.
latilobatus Ammon, Walcott, 5811.
lindstromii, James, 2893.
- Meekapora*, Simpson, 4983.
- Meekella* White and St. John, Hall and Clarke, 2260.
striatocostata (Cox), Keyes, 3062.
- Meekia sella* Gabb, Whiteaves, 6095a.
- Meekospira* n. gen., Ulrich and Scofield, 5541.
subconica n. sp., Ulrich and Scofield, 5541.
- Megalanteris* Suess, Hall and Clarke, 2261a, 2264.
ovalis Hall, Clarke, 971.
- Megalichthys*, Hay, 2381.
macropomus n. sp., Cope, 1082, 1093.
- Megalneusaurus* n. gen., Knight, 3208.
rex, Knight, 3208.
- Megalograptus*, James, 2881.
welchi, James, 2881.
- Megalomphala* n. gen., Ulrich and Scofield, 5541.
- Megalomus canadensis* Hall, Whiteaves, 6080.
- Megalonyx*, Case, 769.

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- Megalonyx, Safford, 802.
 Megalonyx, Hovey, 2787.
 leptostomus Cope, Cope, 1087.
 loxodon Cope, Cope, 1104.
 scalper Cope, Cope, 1104.
 tortulus Cope, Cope, 1104.
 wheatleyi Cope, Cope, 1101, 1104.
 Megalopteris plumosa n. sp., White, 6052.
 Megambonia crenistriata, n. sp., Clarke, 971.
 lata Hall, Girty, 2037.
 Megathyris D'Orbigny, Hall and Clarke, 2264.
 Megerlia dubitanda n. sp., Cooper, 1071.
 Megerlina Deslongchamps, Hall and Clarke, 2264.
 Megistocrinus O. and Shum., Wachsmuth and Springer, 5765a.
 abnormis (Lyon), Wachsmuth and Springer, 5765a.
 concebus Wachsmuth, Wachsmuth and Springer, 5765a.
 depressus (Hall), Wachsmuth and Springer, 5765a.
 evansi O. and Shum., Wachsmuth and Springer, 5765a.
 evansi var. *crassus* (White), Wachsmuth and Springer, 5765a.
 farnsworthi (White), Wachsmuth and Springer, 5765a.
 latus (Hall), Wachsmuth and Springer, 5765a.
 multidecoratus (Barris), Wachsmuth and Springer, 5765a.
 nobilis W. and Sp., Wachsmuth and Springer, 5765a.
 nodosus (Barris), Wachsmuth and Springer, 5765a.
 rugosus Lyon and Cass., Wachsmuth and Springer, 5765a.
 spinosulus Lyon, Wachsmuth and Springer, 5765a.
 Megistocrinus brevicronis Hall, Keyes, 3061.
 evansi (Owen and Shumard), Keyes, 3061.
 expansus n. sp., Miller and Gurley, 3997b.
 hemisphericus n. sp., Miller and Gurley, 3998.
 indianensis n. sp., Miller and Gurley, 3999.
 ornatus n. sp., Miller and Gurley, 3998.
 Meioceras eingulatum n. sp., Dall, 1257.
 Melampus clarkii n. sp., White, 6036.
 Melania sylværupis n. sp., Harris, 2316.
 trigemmata Con., Harris, 2316.
 Melanopsis anita Ald., Harris, 2316.
 planoidea n. sp., Aldrich, 73.
 planoidea Ald., Harris, 2316.
 Melina Retzius, Dall, 1272.
 maxillata (Deshayes), Dall, 1272.
 Meloerinus Goldfuss, Weller, 6002.
 aqualis n. sp., Miller, 3995.
 gregari n. sp., Rowley, 4673.
 lylii n. sp., Rowley, 4674.
 milwaukensis n. sp., Weller, 5988.
 var. *rotundus* n. var., Weller, 5988.
 nodosus Hall, Weller, 5988.
 var. *spinosus* n. var., Weller, 5988.
 nodosus, Whitfield, 6102.

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- Meloerinus oblongus n. sp., Wachsmuth and Springer, 5765.
 obpyramidalis (Winchell and Marey), Weller, 6002.
 parvus n. sp., Wachsmuth and Springer, 5765.
 roemeri n. sp., Wachsmuth and Springer, 5765.
 sampsoni n. sp., Miller and Gurley, 3998.
 subglobosus n. sp., Weller, 5988.
 tersus n. sp., Rowley, 4674.
 Melongena corona Gmelin, Dall, 1259.
 sculpturata var. *turricula*, Dall, 1259.
 subeoronata var. *aspinosa*, Dall, 1259.
 Melonites crassus Hambach, Keyes, 3077.
 giganteus n. sp., Jackson, 2871.
 indianensis n. sp., Miller and Gurley, 3997a.
 multiopora Norwood and Owen, Keyes, 3061, 3077.
 multioporus, Jackson and Jagger, 2872.
 septanarius n. sp., Jackson, 2871.
 Meniscæussus Cope, Osborn, 4184.
 Meniscophyllum, n. gen., Simpson, 4984.
 minutum, n. sp., Simpson, 4984.
 Menispermites borealis Heer (?), Newberry, 4080.
 drysonian n. sp., Hollick, 2672.
 knightii n. sp., Knowlton, 3264.
 rugosus n. sp., Lesquereux, 3470.
 virginiensis Font., Ward, 5846.
 wardianus Hollick, n. sp., Newberry, 4080.
 Menodus augustigenis, Ami, 84.
 Menophyllum (?) excavatum n. sp., Girty, 2038.
 Mephitis Linn., Cope, 1104.
 fissidens n. sp., Cope, 1101, 1104.
 leptops Cope, Cope, 1104.
 obtusatus Cope, Cope, 1104.
 orthostichus n. sp., Cope, 1101, 1104.
 Mercenaria cancellata, Whitfield, 6101.
 plena, Whitfield, 6101.
 Meretrix cornelli n. sp., Harris, 2308.
 fulva n. var., Harris, 2313.
 greggi n. var., Harris, 2313.
 hatchetigbeensis, Harris, 2313.
 mortoniopsis var. *Hp.*, Harris, 2311.
 nuttaliopsis, Harris, 2313.
 pearlensis n. sp., Harris, 2311.
 perovata var. *aldrichi* n. var., Harris, 2308.
 ripleyana, Harris, 2310.
 subimpressa var., Harris, 2313.
 texaeola n. sp., Harris, 2307.
 sp., Harris, 2310.
 sp., Stanton, 5198.
 Merista Suess, Hall and Clarke, 2261, 2264.
 houghtoni, Lane, 3400.
 tennesseensis n. sp., Hall and Clarke, 2261a, 2263, 2268.
 Meristella Hall, Grabau, 2086.
 Meristella, Hall and Clarke, 2261, 2264.
 arcuata var. *atoka* n. var., Girty, 2037.
 barrisi Hall, Grabau, 2086.
 bella, Whitfield, 6099.
 haskinsi Hall, Grabau, 2086.

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- Meristella lævis*, Whitfield, 6099.
lata Hall, Clarke, 971.
lentiformis, n. sp., Clarke, 971.
rostrata Hall, Grabau, 2086.
umbonata, Foerste, 1835.
 (?) *vascularia* n. sp., Clarke, 971.
walcotti n. sp., Hall and Clarke, 2261a, 2263, 2268.
Meristina Hall, Hall and Clarke, 2261, 2264.
nitida, Girty, 2032.
Merostomichnites beecheri n. sp., Packard, 4230.
narragansettensis (Pack.), Packard, 4230.
Merycochoerus laticeps n. sp., Douglas, 1531.
Merycodesmus n. gen., Scott, 4883.
gracilis n. sp., Scott, 4883.
Mesalia alabamiensis, Harris, 2310.
claibornensis Con., Harris, 2307.
elongata n. sp., Whitfield, 6097.
pleboides n. sp., Vaughan, 5722.
pumila, Harris, 2310.
 var. *alabamensis* Whitf., Harris, 2316.
 var. *allentonensis*, Harris, 2310.
 var. *hardemanensis*, Harris, 2310.
 var. *wilcoxiana*, Harris, 2310.
vetusta Con., Harris, 2308.
watsonensis n. sp., Harris, 2310.
 (?), Harris, 2310.
Mesocetus siphunculus n. sp., Cope, 1096.
siphunculus, Cope, 1100.
Mesodesma Deshayes, Dall, 1272.
 (*Donacilla*) (Lam.) Phillips, Dall, 1272.
 (*Paphies*) Dall, 1272.
 (*Taria*) Gray, Dall, 1272.
Mesodon abrasus n. sp., Cragin, 1119.
abrasus, Williston, 6259.
diastematicus n. sp., Cope, 1093.
dumblei, Cope, 1093.
Mesogaulus ballensis n. gen. et sp., Riggs, 4642.
Mesohippus Marsh, Osborn and Wortman, 4192.
Mesohippus, Scott, 4865.
bairdi, Farr, 1793.
bairdii, Osborn and Wortman, 4189.
copei n. sp., Osborn and Wortman, 4192.
copei, Farr, 1793.
intermedius n. sp., Osborn and Wortman, 4192.
intermedius, Farr, 1793.
 (?) *longipes* n. sp., Osborn and Wortman, 4189.
Mesomorpha catadupensis n. sp., Vaughan, 5734.
duncani n. sp., Vaughan, 5735.
Mesonyx uintensis, Osborn, 4190.
Mesosaurus, Case, 768.
Mesostoma occidentalis, Stanton, Herrick, and Johnson, 2465.
occidentalis n. sp., Stanton, 5191.
Mesothyra, Clarke, 939.
gurleyi n. sp., Miller, 3995.
Mesotreta Kutorga, Hall and Clarke, 2260.
Mesotrypa n. gen., Ulrich, 5537.
discoidea n. sp., Ulrich, 5537.
infida Ulrich, Ulrich, 5537.

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- Mesotrypa quebecensis* Ami sp., Ulrich, 5537.
 ? *rotunda* n. sp., Ulrich, 5537.
selkirkensis n. sp., Whiteaves, 6087.
 ? *spinosa* n. sp., Ulrich, 5537.
Metablastus bipyramidalis (Hall), Keyes, 3061.
lineatus (Shumard), Keyes, 3061.
wortheni (Hall), Keyes, 3061.
Metacoceras, Hyatt, 2819.
cavatiformis, Hyatt, 2816.
cavatiforme Hyatt, Miller, 3995.
dubium n. sp., Hay, 2389.
hayi n. sp., Hay, 2389.
inconspicuum n. sp., Hay, 2389.
walcotti, Hyatt, 2389.
Metacypris consobrina n. sp., Jones, 2934.
euneiformis n. sp., Jones, 2934.
simplex n. sp., Jones, 2934.
subeodata n. sp., Jones, 2934.
Metadoxides Bornemann, Matthew, 3789.
magnificus n. sp., Matthew, 3783, 3789.
magnificus Matthew?, Burr, 666.
magnificus Matthew (?), Grabau, 2092.
Metamynodon planifrons, Osborn and Wortman, 4189.
Metaplasia n. gen., Hall and Clarke, 2261, 2264.
pyxidata Hall, Clarke, 971.
Metis H. and A. Adams, Dall, 1281.
alta Conrad, Dall, 1281.
biplicata Conrad, Dall, 1281.
chipolana n. sp., Dall, 1281.
intastriata Say, Dall, 1281.
magnoliiana n. sp., Dall, 1281.
trinitaria n. sp., Dall, 1281.
Metopocetus durinatus n. gen. et sp., Cope, 768.
Metoposaurus (Metopias), Case, 767.
Metula sylvarupis n. sp., Harris, 2316.
Meyeria? harveyi n. sp., Woodward, 6442.
Mezoneurum bridgetonense n. sp., Hollick, 2686.
Miacis canavus Cope, Osborn and Wortman, 4183.
uintensis n. sp., Osborn, 4190.
Michelinia, Girty, 2032.
Michelinia de Koninek, Lambe, 3379.
branneri n. sp., Miller and Gurley, 3997a.
bridghami, n. sp., Greene, 2162d.
clappii Milne-Edwards and Haime, Lambe, 3374.
convexa D'Orbigny, Beecher, 353.
convexa d'Orbigny, Lambe, 3374.
favosistoidea Billings em. (*favosoidea*), Lambe, 3374.
louisvillensis, n. sp., Greene, 2162b.
minuta, n. sp., Greene, 2162.
neglecta, n. sp., Greene, 2162b.
papulosa, n. sp., Greene, 2162b.
placenta White, Girty, 2038.
spiculata, n. sp., Greene, 2162b.
tantilla, n. sp., Greene, 2162b.
williamsi, n. sp., Greene, 2162b.
Miekwitzia Schmidt, Hall and Clarke, 2260.
Miemaeca n. gen., Matthew, 3761.
angimargo n. sp., Matthew, 3789.
matthevi n. sp., Matthew, 3761.

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- Micmacca* ? *plana* n. sp., Matthew, 3761.
recurva n. sp., Matthew, 3761.
van-ingeni n. sp., Matthew, 3761, 3781.
walcotti, n. sp., Matthew, 3789.
Micropsis n. gen., Scudder, 4891.
paludis, Scudder, 4894.
Microblattina n. gen., Scudder, 4898.
perdita n. sp., Scudder, 4898.
Microcyclus blairi n. sp., Miller, 3995.
Microdiscus Emmons, Matthew, 3770, 3789.
belli-marginatus Shaler and Foerste, Grabau, 2092.
bellimarginatus, Shaler and Foerste, Mut.
insularis n. mut. Matthew, 3789.
cf. *helena* Walcott, Burr, 666.
dawsoni Hartt, Matthew, 3770.
lobatus (Hall), Grabau, 2092.
precursor, Matthew, 3770.
punchellus Hartt, Matthew, 3770.
punctatus Salter, Matthew, 3770.
schucherti n. sp., Matthew, 3766, 3770.
sp., Grabau, 2092.
Microdon reservatus Hall, Lane, 3400.
Microdus dumbelli n. sp., Cope, 1084.
Microgomphodon, Case, 768.
Microspongia, James, 2881.
gregaria, James, 2881.
(?) *subrotundus*, James, 2881.
Microsyrops uintensis n. sp., Osborn, 4190.
Microtus dideltus Cope, Cope, 1104.
diluvianus n. sp., Cope, 1101, 1104.
involutus Cope, Cope, 1104.
speothen Cope, Cope, 1104.
Microyoldia Verrill, Dall, 1272.
Microzamia gibba (Reuss) Corda, Newberry, 4080.
Miliolina seminulum, Bagg, 148.
Mimulus Barrande, Hall and Clarke, 2260.
Minoceras Hall, Ulrich and Scofield, 5541.
Mioclenus Cope, Matthew, 3800.
Mioclenus Cope, Osborn and Earle, 4191.
acolytus (Cope), Matthew, 3800.
inaequidens (Cope), Matthew, 3801.
lemuroides n. sp., Matthew, 3801.
turgidunculus Cope, Matthew, 3801.
turgidus Cope, Matthew, 3801.
turgidus Cope, Osborn and Earle, 4191.
Miolabi Hay, Matthew, 3804.
Mitoclema, Simpson, 4983.
Mitoclema Ulrich, Ulrich, 5537.
? *mundulum* Ulrich, Ulrich, 5537.
Mitra hammakeri n. sp., Harris, 2305.
hatchetigbeensis Ald., Harris, 2316.
hatchetigbeensis ?, Harris, 2310.
holmesii n. sp., Dall, 1259.
lineolata Heilprin, Dall, 1259.
lintoidea n. sp., Aldrich, 71.
marylandica n. sp., Clark, 904, 906.
pergracilis Con., Harris, 2316.
silicata Dall, (*mississippiensis* var.?) Dall, 1259.
simplicissima n. sp., Cooper, 1071.
subpontis n. sp., Harris, 2310.
wandoensis Holmes, Dall, 1259.
wilcoxii n. sp., Dall, 1259.

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- Mitra* sp., Clark, 906.
sp. undet., Dall, 1259.
Mitrella alabamensis Ald. and M., Harris, 2316.
mississippiensis Ald., Harris, 2316.
Mitrocerinus n. gen., Miller and Gurley, 3997c.
wetherbyi n. sp., Miller and Gurley, 3997c.
Mitromorpha cineta n. sp., Dall, 1259.
pygmaea Dall, Dall, 1259.
Mixodectes Cope, Matthew, 3801.
Modiella Hall, Grabau, 2086.
Modiola Harris, 2313, 2315.
alabamensis n. sp., Aldrich, 73.
brauneri n. sp., Hill, 2539.
filisculpta n. sp., Cragin, 1115.
gigas Wagner, Dall, 1273.
houstonia n. sp., Harris, 2307.
inflata, Whitfield, 6101.
jurafacies n. sp., Cragin, 1115.
major Gabb, Stanton, 5199.
pealei n. sp., White, 6036.
persistens n. sp., Whiteaves, 6095a.
potomacensis n. sp., Clark, 904, 906.
pygmaea (Conrad), Grabau, 2086.
saffordi, Harris, 2310.
stonewallensis n. sp., Cragin, 1115.
stubbisi n. sp., Harris, 2315.
subpontis n. sp., Harris, 2310.
sp., Logan, 3557.
(*Brachydontes*) *multilinigera* Meek, Logan, 3554.
(*Brachydontes*) *multilinigera* Meek, Stanton, 5191.
Modiolaria Beck, Dall, 1272.
carolinensis n. sp., Dall, 1272.
lateralis Say, Dall, 1272.
virginica Conrad, Dall, 1272.
Modiolodon n. gen., Ulrich, 5539.
declivis n. sp., Ulrich, 5535.
(?) *gibbus* n. sp., Ulrich, 5539.
obtusius n. sp., Ulrich, 5535.
oviformis, Ulrich, 5535.
var. *amplus* n. var., Ulrich, 5535.
patulus n. sp., Ulrich, 5539.
subovalis n. sp., Ulrich, 5535.
subrectus n. sp., Ulrich, 5535.
Modiolopsidae n. fam., Ulrich, 5539.
Modiolopsis Hall, Matthew, 3790.
Modiolopsis Hall, Ulrich, 5539.
angustifrons n. sp., Whiteaves, 6087.
arguta n. sp., Ulrich, 5539.
chatfieldensis n. sp., Ulrich, 5539.
concava n. sp., Ulrich, 5534, 5539.
concentrica Hall and Whitfield, Ulrich, 5539.
(?) *consimilis* n. sp., Ulrich, 5539.
corrugata n. sp., Miller and Faber, 3994.
dychii n. sp., Miller, 3995.
excellens n. sp., Ulrich, 5539.
longus n. sp., Miller and Faber, 3994.
mytiloides Hall, Ulrich, 5539.
nan, n. sp., Ulrich, 5539.
obsoleta n. sp., Ulrich, 5539.
oweni n. sp., Ulrich, 5539.
parviuscula Billings, Whiteaves, 6087.

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- Modiolopsis plana* Hall, Ulrich, 5534.
plana Whitfield, 6102.
rhomboidea, Foerste, 1835.
similis n. sp., Ulrich, 5534.
similis Ulrich, Ulrich, 5539.
subelliptica n. sp., Ulrich, 5534.
subrhomboidea, Foerste, 1835.
sulcata n. sp., Miller and Faber, 3994.
 (?) *superba*, Whitfield, 6102.
theoides, Matthew, 3790.
Modiolus Lamarck, Dall, 1272.
cretaceus Conrad, Dall, 1272.
ducatelli Conrad, Dall, 1272.
silicatus n. sp., Dall, 1272.
pugetensis n. sp., Dall, 1272.
(Botula) *cinnamomeus* Lamarck, Dall, 1272.
(Brachydontes) *eritinus* Bolten, Dall, 1272.
demissus Dillwyn, Dall, 1272.
grammatus n. sp., Dall, 1272.
guppyi n. sp., Dall, 1272.
(Gegariella) *minimus* n. sp., Dall, 1272.
Modiomorpha Hall, Grabau, 2086.
alata (Conrad), Grabau, 2086.
attenuata, Whiteaves, 6074.
compressa n. sp., Whiteaves, 6074.
concentrica (Conrad), Grabau, 2086.
helmreicheni n. sp., Clarke, 976.
northviewensis n. sp., Weller, 5994.
parvula n. sp., Whiteaves, 6074.
pimentana, Hartt and Rathbun, Clarke, 976.
sellowii, Clarke, 976.
subalata (Conrad), Grabau, 2086.
tumida n. sp., Whiteaves, 6074.
 (?) *sp.*, Girty, 2039.
Modulus compactus n. sp., Dall, 1259.
floridanus Conrad, Dall, 1259.
lapidosa n. sp., Whitfield, 6097.
turbinatus Heilprin, Dall, 1259.
willecoxi n. sp., Dall, 1259.
Mogulia Waagen, Ulrich and Scofield, 5541.
Molina rectirostris, Beecher, 366.
Molleria duplinensis n. sp., Dall, 1259.
Monilea (Leiotrochus) eborea, Whitfield, 6101.
Monilopora Nich. and Eth. jr., Grabau, 2088.
antiqua Whiteaves, Grabau, 2088.
beecheri n. sp., Grabau, 2088.
crassa (McCoy), Grabau, 2088.
Moniloporidæ n. fam., Grabau, 2088.
Monobolina Salter, Hall and Clarke, 2260.
Monoceras jacksonium n. sp., Harris, 2311.
Monocladodus clarki, Claypole, 986.
pinnatus, Claypole, 986.
Monoclonius, Marsh, 3701.
Monocotyledon gen. et sp., (?) Newberry, 4083.
Monograptus beecheri n. sp., Girty, 2034.
Monomerella Billings, Hall and Clarke, 2260.
durhamensis n. sp., Whiteaves, 6080.
egani n. sp., Hall and Clarke, 2260, 2268.
greenii n. sp., Hall and Clarke, 2260, 2268.
kingi, n. sp., Hall and Clarke, 2260, 2268.
ortoni n. sp., Hall and Clarke, 2260, 2268.
sp. undet., Whiteaves, 6080.

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- Monopteria gibbosa alata* n. var., Beede, 388.
gibbosa (Meek and Worthen), Keyes, 3062.
longispina (Cox), Keyes, 3062.
 ? *subalata* n. sp., Beede and Rogers, 396.
Monotis ? *gregaria* Meek and Worthen, Keyes, 3062.
simplicata n. sp., Hyatt, 2818.
symmetrica n. sp., Hyatt, 2818.
Monotrypa Nicholson, Grabau, 2086.
Monotrypa Simpson, 4983.
Monotrypa Nicholson, Ulrich, 5537.
amplectens, n. sp., Grabau, 2086.
arbusculus, Hall and Simpson, Clarke, 971.
fructicosa (Hall), Grabau, 2086.
 (?) *furcata* (Hall), Grabau, 2086.
incerta, n. sp., Ami, 79.
intabulata n. sp., Ulrich, 5537.
magna n. sp., Ulrich, 5537.
nodosa n. sp., Ulrich, 5537.
rectimuralis Ulrich, James, 2896.
 (?) *Chaetetes* *cumulatan*, sp., Ulrich, 5537.
Monotrypella, Simpson, 4983.
Montacuta Turton, Dall, 1281.
 (?) *actinophora* n. sp., Dall, 1281.
 (?) *chipolani* n. sp., Dall, 1281.
claiborniana n. sp., Dall, 1281.
mariana n. sp., Dall, 1281.
petropolitana n. sp., Dall, 1281.
saginata n. sp., Dall, 1281.
(Orbitella) *floridana*, Dall, 1281.
Monticulipora, Simpson, 4983.
Monticulipora d'Orbigny, Ulrich, 5537.
affinis, James, 2889.
andrewsii, James, 2889.
arborea n. sp., Ulrich, 5537.
arcolata, James, 2889.
aspera Ulrich, James, 2895.
asperula Ulrich, James, 2895.
briarea, James, 2889.
calceola Miller and Dyer, James, 2895.
calycula, James, 2889.
 ? *cannonensis* n. sp., Ulrich, 5537.
cincinnatiensis, James, 2889.
clavacoidea James, James, 2895.
clevelandi James, James, 2895.
clintonensis James, James, 2895.
communis, James, 2889.
compressa Ulrich, James, 2895.
contexta Ulrich, James, 2895.
crassimuralis, James, 2889.
crustulata James, James, 2895.
cumulata Ulrich, James, 2895.
curvata Ulrich, James, 2895.
dawsoni Nicholson, James, 2895.
discoidea, James, 2889.
dubia, James, 2889.
dychei James, James, 2895.
eccentrica, James, 2889.
elegans, James, 2889.
falsi, James, 2889.
filiosa, James, 2881.
flabellaris, Ulrich, James, 2895.
frondosa, d'Orbigny, James, 2895.
fusiformis Whitfield, James, 2895.
gelasinoso, James, 2889.

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- Monticulipora gracilis, James, 2889.
 grandis Ulrich, Ulrich, 5537.
 imperfectum, James, 2889.
 incompta n. sp., Ulrich, 5537.
 inflecta Ulrich, James, 2895.
 irregularis, James, 2881.
 jamesi, James, 2889.
 kentuckensis, James, 2889.
 laevis Ulrich, James, 2895.
 lamellosa Ulrich, James, 2895.
 lens, James, 2889.
 mammulata d'Orbigny, James, 2895.
 meeki, James, 2889.
 molesta Nicholson, James, 2895.
 newberryi, James, 2889.
 newportensis, James, 2889.
 nodulosa, James, 2889.
 ohioensis, James, 2889.
 o'nealli, James, 2889.
 ortonii Nicholson, James, 2895.
 papilata McCoy, James, 2895.
 parasitica Ulrich, James, 2895.
 pavonia d'Orbigny, James, 2895.
 petasiformis, James, 2889.
 var. welchi, James, 2889.
 petechialis Nicholson, James, 2895.
 prolifica Ulrich, James, 2895.
 pustulosa Ulrich, James, 2895.
 quadrata, James, 2889.
 var. subquadrata, James, 2889.
 ramosa, James, 2889.
 var. dalli, James, 2889.
 rugosa, James, 2889.
 selwynii Nicholson, James, 2895.
 septosa, James, 2889.
 simulatrix, James, 2889.
 singularis Ulrich, James, 2895.
 stidhami Ulrich, James, 2895.
 subpulchella, James, 2889.
 tuberculata Edw. and H., James, 2895.
 turbinata, James, 2881.
 ulrichi, James, 2889.
 undulata, James, 2881.
 undulata var. hemispherica n. var.,
 James, 2881.
 uniformis Ulrich, James, 2895.
 varians, James, 2889.
 vaupeli Ulrich, James, 2895.
 verrucosa n. sp., James, 2895.
 wetherbyi Ulrich, Ulrich, 5537.
 whiteavesi, James, 2889.
 whitfieldi, James, 2889.
 wilmingtonense Ulrich, James, 2895.
 winchelli James, James, 2895.
 wortheni, James, 2889.
 (Constellaria) Dana, James, 2896.
 polystomella Nicholson, James, 2896.
 parva Ulrich, James, 2896.
 (Dekayia) Edw. and H., James, 2896.
 aspera Edw. and H., James, 2896.
 hospitalis var. neglecta James, James,
 2896.
 maculata James, James, 2896.
 pelliculata Ulrich, James, 2896.
 (Fistulipora) McCoy, James, 2896.

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Genera and species described—Continued.

- Monticulipora granulifera (Ulrich), James,
 2896.
 milfordensis James, James, 2896.
 nicholsoni James, James, 2896.
 oweni James, James, 2896.
 rustica Ulrich, James, 2896.
 subcylindrica U. P. James, James,
 2896.
 (?) sp., Cleland, 1012.
 Moorea Jones and Kirby, Grabau, 2086.
 Moorea Jones and Kirby, Ulrich, 5540.
 angularis n. sp., Ulrich, 5540.
 bicornuta Ulrich, Grabau, 2086.
 (?) perplexa n. sp., Ulrich, 5540.
 punctata n. sp., Ulrich, 5540.
 Morea naticella, Whitfield, 6097.
 Moriconia cyclotoxon Deb. and Ett., Hollick,
 2696.
 cyclotoxon Deb. and Ett., Newberry, 4080.
 Morosaurus, Marsh, 3701, 3702.
 Morosaurus, Williston, 6248.
 Morotherium gigas Marsh, Merriam, 3924.
 Mortonicerias shoshonense Meek, Logan, 3554.
 shoshonense Meek, Stanton, 5191.
 ? vermillionense, M. and H., Herrick and
 Johnson, 2465.
 vermillionense M. and H., Logan, 3554.
 vermillionense M. and H., Stanton, 5191.
 Mosasauridæ, Baur, 298.
 Mosasaurus, Williston, 6245.
 horridus, Williston, 6228, 6245.
 maximus Cope, Whitfield, 6114.
 Mourlonia northviewensis n. sp., Weller, 5994.
 Muhlfeldtia Bayle, Hall and Clarke, 2264.
 Mulina minor Whitfield, Dall, 1265.
 Mulinia Gray, Dall, 1272.
 caloosensis n. sp., Dall, 1272.
 congesta Conrad, Dall, 1272.
 lateralis Say, Dall, 1272.
 milesii Holmes, Dall, 1272.
 sapotilla n. sp., Dall, 1272.
 Multicolumnastræa n. gen., Vaughan, 5734.
 cyathiformis (Duncan), Vaughan, 5734.
 Murchisonia archiacana (nom. nov.), White-
 eaves, 6074.
 bivittata Hall, Whiteaves, 6080.
 boylei Nicholson, Whiteaves, 6080.
 carinifera Shumard, Keyes, 3062.
 cassina n. sp., Whitfield, 6106.
 dowlingii n. sp., Whiteaves, 6074.
 indianensis n. sp., Miller and Gurley,
 4002.
 hammelli n. sp., Miller, 3995.
 logani Hall, Whiteaves, 6080.
 longispira Hall, Whiteaves, 6080.
 macrospira Hall, Whiteaves, 6080.
 major Hall, Keyes, 3062.
 marcouiana Geinitz, Girty, 2037.
 melaniaformis Shumard, Keyes, 3062.
 mohawkensis n. s., Cleland, 1012.
 quadrineta Win., Weller, 6006.
 terebra White, Keyes, 3062.
 turritiformis Hall, Whiteaves, 6080.
 sp., Clarke, 976.
 sp., Calvin, 684.

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- Murex chrysostoma* Gray var. *chipolana* Dall, 1259.
elegantissimus n. sp., Aldrich, 73.
fusates n. sp., Harris, 2307.
marksi n. sp., Harris, 2305, 2311.
mississippiensis Conrad, Dall, 1259.
morulus Con., Harris, 2311.
shilohensis, Whitfield, 6101.
shilohensis var. *burnsi* n. var., Whitfield, 6101.
 (Chicores?) *burnsii* Whitfield, Dall, 1259.
micromeris n. sp., Dall, 1259.
 (Odontopolys) *compsorhytis* Gabb, Harris, 2307.
 (Pteronotus) *burnsii* n. sp., Aldrich, 71.
lavavaricosus n. sp., Whitfield, 6097.
matthewsensis, Harris, 2310.
textilis Gabb, Dall, 1259.
 (Pterorhytis) *conradi*, Dall, 1259.
umbrifer Conrad, Dall, 1259.
Muricea floridana Conrad, Dall, 1259.
imbricatula, Harris, 2316.
multangula Philippi, Dall, 1259.
spinulosa Heilprin, Dall, 1259.
Musophyllum complicatum Lx., Knowlton, 3255.
Mustela, *diluviana* Cope, 1104.
Mya arenaria Linne, Dall, 1259.
arkansana n. sp., Weller, 5986.
producta Conrad, Dall, 1259.
truncata Linne, Dall, 1259.
Myalina? *exasperata* n. sp., Beede, 394.
kansasensis Shumard, Keyes, 3062.
pterinaeformis, Lane, 3400.
recurvirostris Meek and Worthen, Keyes, 3062.
subquadrata Shumard, Keyes, 3062.
swalovi McChesney, Keyes, 3062.
trigonalis n. sp., Whiteaves, 6074.
Myas rigefactus n. sp., Scudder, 4900.
umbrarum n. sp., Scudder, 4900.
Mycetophætus n. gen., Scudder, 4889.
intermedius, Scudder, 4889.
Mycetoporus demursus n. sp., Scudder, 4900.
Myconcha americana n. sp., Stanton, 5199.
Myelodaetylus Hall, Weller, 6002.
bridgeportensis Miller, Weller, 6002.
gorbyi n. sp., Miller, 3992.
Myelodatyus, Bather, 294.
Myelopoteris topekensis n. sp., Penhallow, 4337.
Myiacridæ? sp., Scudder, 4898.
Myilacris ampla n. sp., Scudder, 4898.
anthracophila, Scudder, 4898.
antiqua, Scudder, 4898.
elongata n. sp., Scudder, 4898.
gurleyi n. sp., Scudder, 4898.
packardii, Scudder, 4892, 4898.
Myliobatis copeanus n. sp., Clark, 904, 906.
leidyi, Hay, 2381.
Myllita d'Orbigny and Récluz, Dall, 1281.
Myiodon, Case, 769.
 ? *harlanii* Owen, Cope, 1104.
 ? *sodalis* Cope, Cope, 1087.
Mylohyus Cope, Cope, 1104.

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- Mylohyus nasutus* Leidy, Cope, 1104.
pennsylvanicus Leidy, Cope, 1104.
tetragonus Cope, Cope, 1104.
Myolodon? *harlani* Leidy, Williston, 6228.
harlanii Owen, Cope, 1098.
renidens n. sp., Cope, 1098.
sulcidens n. sp., Cope, 1098.
Myrica acuta Hollick n. sp., Newberry, 4080.
aspera n. sp., Lesquereux, 3470.
bolanderi? Lx., Knowlton, 3255.
cinnamomifolia n. sp., Newberry, 4080.
emarginata Heer, Lesquereux, 3470.
emarginata Heer (?), Newberry, 4080.
fenestrata n. sp., Newberry, 4080.
 (?) *idahoensis* n. sp., Knowlton, 3246.
lamarensis n. sp., Knowlton, 3255.
lanceolata n. sp., Knowlton, 3246.
longa Heer, Hollick, 2696.
longa Heer, Lesquereux, 3470.
newberryana Hollick, n. sp., Newberry, 4080.
obliqua n. sp., Lesquereux, 3470.
parvula Heer, Newberry, 4080.
præmissa Lesquereux sp., Knowlton, 3232.
raritanensis Hollick n. sp., Newberry, 4080.
schimperi n. sp., Lesquereux, 3470.
torreyi Lx., Knowlton, 3264.
 (?) *trifoliata* Newb. n. sp., Newberry, 4083.
wardii n. sp., Knowlton, 3255.
 (Comptonia) *cuspidata* (Lesquereux), Dawson, Knowlton, 3232.
 ? sp., Knowlton, 3264.
Myrsine borealis Heer, Newberry, 4082.
crassa n. sp., Lesquereux, 3470.
elongata Newb., Hollick, 2696.
elongata n. sp., Newberry, 4080.
oblongata Hollick n. sp., Newberry, 4080.
Myrsinites? *gaudina* Lesq., Lesquereux, 3470.
Myrtophyllum warderi n. sp., Lesquereux, 3470.
 (Eucalyptus?) *geinitzi* Heer(?), Hollick, 2695.
Myses ferruginea, Beecher, 366.
Mysia perilis, Whitfield, 6101.
Mysis, Beecher, 366.
Mytilarea fibristriata (W. & W.), Weller, 6006.
inflata n. sp., Whiteaves, 6074.
jessieæ n. sp., Miller and Gurley, 4002.
mytiliformis n. sp., Foerste, 1835.
occidentalis (W. & W.), Weller, 6006.
percarinata, Whitfield, 6099.
 ? sp., Girty, 2039.
Mytiloconcha incrassata, Whitfield, 6101.
Mytilus (L.) Bolten, Dall, 1272.
conradinus Orbigny, Dall, 1272.
dichotomus n. sp., Cooper, 1071.
edulis Linné, Dall, 1272.
pandionis n. sp., Dall, 1272.
 (Hormomya) *exustus* Linné, Dall, 1272.
hamatus Say, Dall, 1272.
 (Mytiloconcha) *incurvus* Conrad, Dall, 1272.
Nageiopsis angustifolia Fontaine?, Fontaine, 1850.

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- Nageiopsis longifolia* Fontaine, Fontaine, 1850.
Naiadites, Dawson, 1441.
Naiadites, Hind, 2600.
Nanno, Clarke, 944.
 aulema n. sp., Clarke, 953.
 aulema, Hyatt, 2820.
Nanomeryx caudatus n. gen. et sp., Marsh, 3690.
Nanopus caudatus n. gen. et sp., Marsh, 3686.
Nanosaurus Marsh, 3701.
Naosaurus, Case, 768.
Nartheoceras crassisiphonatum, Hyatt, 2820.
 simpsoni, Hyatt, 2820.
Nassa bidentati Emmons, Dall, 1259.
 caloosaensis n. sp., Dall, 1259.
 cancellata Lea, Harris, 2316.
 exilis Con., Harris, 2315.
 galvestonensis n. sp., Harris, 2309.
 harpuloides Conrad, Dall, 1259.
 johnsoni n. sp., Dall, 1259.
 lapnotierei n. sp., Dall, 1259.
 newcombei n. sp., Merriam, 3919, 3923.
 scalaspira Conrad, Dall, 1259.
 trivigalvesta n. sp., Harris, 2309.
Nassarina glypta Bush., Dall, 1259.
Natica abyssina, Whitfield, 6097.
 abyssina Morton, Whitfield, 6097.
 alabamiensis, Harris, 2315.
 alticallosa n. sp., Dall, 1259.
 aperta Whitf., Harris, 2315, 2316.
 cliftonensis n. sp., Clark, 904, 906.
 eminula, Harris, 2310, 2315.
 eminula Har. var., Harris, 2316.
 globulella n. sp., Whitfield, 6097.
 humilis n. sp., Cragin, 1115.
 limula, Harris, 2310.
 magno-umbilicata Lea, Harris, 2316.
 mediavia n. sp., Harris, 2310, 2311.
 perspecta, Harris, 2310.
 reversa, Harris, 2310.
 saffordi n. sp., Harris, 2310.
 striaticostata n. sp., Cragin, 1115.
 (*Cryptonatica*) *floridana* n. sp., Dall, 1259.
 (*Girodes*) *alabamiensis*, Harris, 2310.
 (*Lacunaria*) *alabamiensis* Whitf., Harris, 2316.
 erecta Whitf., Harris, 2316.
 semilunata, Harris, 2316.
 (*Lunatia*) *hemicypta*, Whitfield, 6101.
 (*Lunatia*) *heros*, Whitfield, 6101.
 (*Lunatia*) *tuomeyi* n. sp., Whitfield, 6101.
 (*Neverita*) *onusta* Whitf., Harris, 2316.
 (*Polinices*) *onusta*, Harris, 2310.
 (*Sigaticus*) *clarkiana* Ald., Harris, 2316.
Naticopsis McCoy, Keyes, 3062.
 depressa Win., Weller, 6006.
 gigantea Hall and Whitfield, Girty, 2039.
 inornata n. sp., Whiteaves, 6074.
 manitobensis n. sp., Whiteaves, 6074.
 ortoni, Whitfield, 6099.
 ventricosa (Norwood and Pratten), Keyes, 3062.
 ziczac, Whitfield, 6099
 ? (*Isoncma*) *humilis* Meek, Girty, 2039.

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- Naticopsis* (?) sp., Girty, 2038.
Nauplius, Beecher, 366.
Nautilus Breynius, Grabau, 2086.
Nautilus, Hyatt, 2819, 2820.
 bryani, Whitfield, 6097.
 burkarti n. sp., Aguilar, 57.
 cookana n. sp., Whitfield, 6097.
 dekayi, Whitfield, 6097.
 elegans Sowerby, Stanton, 5191.
 forbesianus McChesney, Keyes, 3062.
 magister Hall, Grabau, 2086.
 missouriensis Swallow, Keyes, 3062.
 occidentalis Swallow, Keyes, 3062.
 ortoni, Whitfield, 6099.
 pauper, Whitfield, 6099.
 perkinsi n. sp., Whitfield, 6106.
 ponderosus White, Keyes, 3062, 3105.
 texanus Shum., Cragin, 1115.
 toddi n. sp., Miller, 3995.
 washitanus n. sp., Cragin, 1118.
 winslowi Meek and Worthen, Keyes, 3062
 (*Centroceras*) *marcellensis* (Vanuxem), Grabau, 2086.
 (*Cymatoceras*) *carlottensis* n. sp., Whiteaves, 6095a.
 (*Gyroceras* ?) *subquadrangularis*, Whitfield, 6099.
 (*Temnocheilus*) *spectabilis*, Whitfield, 6099.
 sp., Clark, 906.
Nebalia geoffroyi, Beecher, 366.
Nebria oclusa n. sp., Scudder, 4900.
 palcomelas, Scudder, 4896.
Negundo triloba Newb., Newberry, 4083.
Neithequinquecostata? (Sow.) Mort., Harris, 2315.
Nelumbo intermedia n. sp., Knowlton, 3264.
 laramiensis n. sp., Hollick, 2674.
 ? sp., Knowlton, 3264.
Nemataxis, Simpson, 4983.
Nematophyton crassum, Penhallow, 4335.
Nematopora, Simpson, 4983.
Nematopora Ulrich, Ulrich, 5537.
 conferta Ulrich, Ulrich, 5537.
 delicatula Ulrich, Ulrich, 5537.
 granosa Ulrich, Ulrich, 5537.
 ovalis Ulrich, Ulrich, 5537.
Nemodon sulcatus Evans and Shumard, Herrick and Johnson, 2465.
 sulcatus Evans and Shumard (sp.) ?, Stanton, 5191.
Neobolus Waagen, Hall and Clarke, 2260.
Neolenus, n. gen., Matthew, 3788.
 granulatus, n. sp., Matthew, 3788.
 serratus, Roem. sp., Matthew, 3788.
Neothanes testeus, Scudder, 4900.
Nepheliospongia n. gen., Clarke, 974.
 avocensis n. sp., Clarke, 974.
 typica n. sp., Clarke, 974.
Nephriticeras, Hyatt, 2819.
 acraeum, Hyatt, 2819.
 bucinum, Hyatt, 2819.
 cayum, Hyatt, 2819.
 juvenis, Hyatt, 2819.
 liratum, Hyatt, 2819.

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- Nephriticeras majester*, Hyatt, 2819.
 maximum, Hyatt, 2819.
 oriens, Hyatt, 2819.
 subliratum, Hyatt, 2819.
- Neptunea constricta*, Harris, 2310.
- Neptunella mullicaensis* n. sp., Whitfield, 6097.
- Nerea* cf. *forojuliensis* Pirona, Boehm., 503a.
- Nereis* (?) *incognita* n. sp., Cragin, 1116.
- Nerinea Dispar* (?) Gabb, Whiteaves, 6085.
- Nerinea hircoriensis* n. sp., Cragin, 1115.
 pellucida n. sp., Cragin, 1115.
 volana n. sp., Cragin, 1115.
- Nerita tampaensis* n. sp., Dall, 1259.
- Neritina apparata* n. sp., Cragin, 1115.
 chipolana n. sp., Dall, 1259.
 incompta White, Stanton, 5191.
 naticiformis White, White, 6036.
 pisum Meek, Stanton, 5191.
 stantoni n. sp., White, 6036.
 wyomingensis n. sp., Stanton, 5206.
 (*Theodoxus* ?) *edentula* n. sp., Dall, 1259.
 (*Velatella*) *patelliformis* Meek, Stanton, 5191.
- Neritoma marcouana* n. sp., Cragin, 1118.
- Neritopsis biangulatus* Shum., Cragin, 1115.
 tramitensis n. sp., Cragin, 1115.
- Neumayria walcotti* Hill, Hill, 2539.
- Neuropteris Brongniart*, 1822, White, 6050.
 aldrichi (Lx.), White, 6052.
 angustifolia Brongn., White, 6040.
 caudata n. sp., White, 6040, 6049.
 civica n. sp., Dawson, 1448.
 cordata, White, 6040.
 dilatata (L. and H.) Lx., White, 6040, 6050.
 elrodi Lx., White, 6052.
 fasciculata Lx., White, 6040.
 fimbriata Lx., White, 6040.
 flexuosa Sternb., White, 6040.
 gigantea Sternb., White, 6052.
 griffithii Lx., White, 6049.
 harrisi n. sp., White, 6049.
 hirsuta Lx., White, 6040.
 jenneyi n. sp., White, 6040, 6049.
 lunata n. sp., White, 6052.
 missouriensis Lx., White, 6049, 6050.
 var. *nervosa* n. var., White, 6049.
 ovata Hoffm., White, 6052.
 pocahontas, n. sp., White, 6052.
 var. *inaequalis* n. var., White, 6052.
 var. *pentias* n. var., White, 6052.
 rarinervis Bunb., White, 6040.
 scheuchzeri Hoffm., White, 6040, 6049, 6050.
 smithsii Lx., White, 6052.
 tennesseana Lx. Mss., White, 6052.
 tenuifolia (Schloth.) Sternb., White, 6040.
 cf. *trichomanoides* (Brongn.) Lx., White, 6040.
- Neverita duplicata*, Whitfield, 6101.
- Newberria* Hall, Hall and Clarke, 2261a, 2264.
- Nicholsonella*, Simpson, 4093.
- Nicholsonella* Ulrich, Ulrich, 5537.
 laminata n. sp., Ulrich, 5537.
 ponderosa ? Ulrich, Ulrich, 5537.
 pulchra n. sp., Ulrich, 5537.
- Nileus striatus* n. sp., Whitfield, 6106.

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- Nileus vigilans*, Meek and Worthen (sp.), 1875,
 Clarke, 952.
- Nilssonia gibbsii* (Newb.), Hollick, Newberry, 4083.
- Nipterella paradoxica* (Billings) Hinde, Rauff, 4548.
- Niso lineata* Conrad, Dall, 1259.
 umbilicata Lea, Harris, 2316.
 willecoxiana Dall, Dall, 1259.
 sp., Vaughan, 5722.
- Nitidula prior* n. sp., Seudder, 4900.
- Nodisaurus*, Marsh, 3701.
- Nodosaria aculeata*, Bagge, 148.
 acuminata (Reuss), Bagge, 150.
 adolphina (d'Orbigny), Chapman, 870.
 adolphinula (d'Orbigny), Bagge, 150.
 affinis, Bagge, 148.
 annulata Reuss, Bagge, 150.
 bacillum, Bagge, 148.
 communis (d'Orbigny), Bagge, 148, 150.
 consobrina (d'Orbigny), Bagge, 148, 150.
 var. *emaciata* Reuss, Bagge, 148, 150.
 farcimen (Soldani), Bagge, 148, 150.
 farcimen Reuss (after Soldani), Chapman, 870.
 filiformis d'Orbigny, Bagge, 150.
 indifferens (Reuss), Bagge, 150.
 inornata (d'Orbigny), Bagge, 150.
 laevigata d'Orbigny, Bagge, 150.
 longiscata d'Orbigny, Bagge, 150.
 longiscata d'Orbigny, Chapman, 870.
 multicostata (d'Orbigny), Bagge, 150.
 nitida d'Orbigny, Bagge, 150.
 obliqua, Bagge, 148, 150.
 obliqua (Linné), Chapman, 870.
 pauperata (d'Orbigny), Bagge, 150.
 pauperata (d'Orbigny), Chapman, 870.
 polygona Reuss, Bagge, 150, 144.
 radicula (Linné), Bagge, 150.
 radicula (Linné), Chapman, 870.
 raphanus (Linné), Bagge, 150.
 roemerii (Neuguboren), Bagge, 150.
 rotundata (Reuss), Bagge, 150.
 scabra (Reuss), Bagge, 150.
 soluta Reuss, Chapman, 870.
 spinulosa (Montagu), Bagge, 150.
 vertebralis (Batsch), Bagge, 150.
 williamsi, Bagge, 150.
 zippei Reuss, Bagge, 144, 150.
- Noedyceras* Hyatt, 2819.
- Noeggerathiopsis robinsi* n. sp., Dawson, 1436.
- Noetlingia* Hall, Hall and Clarke, 2264.
- Nomaretus serus* n. sp., Seudder, 4900.
- Nonionina affinis*, Bagge, 148.
 boueana, Bagge, 148.
 boueana d'Orbigny, Chapman, 870.
 communis d'Orbigny, Chapman, 870.
 depressula, Bagge, 148.
 scapha, Bagge, 148.
 scapha Fichtel and Moll. sp., Woodward and Thomas, 6433.
- Nordenskiöldia borealis* Heer, Newberry, 573a, 4083.
- pompilioides* (Fichtel and Moll.), Chapman, 870.

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Genera and species described—Continued.

- Nordenskiöldia umbilicatulæ* (Montagu), Chapman, 870.
- Norella Bittner*, Hall and Clarke, 2264.
- Nosototocus* n. gen., Seudder, 4889.
- debilis* n. sp., Seudder, 4900.
- marcovi*, Seudder, 4889, 4900.
- vespertinus* n. sp., Seudder, 4900.
- Nostoceras* n. gen., Hyatt, 2819.
- helicinum*, Hyatt, 2819.
- stantoni*, Hyatt, 2819.
- var. *aberrans*, Hyatt, 2819.
- prematurum*, Hyatt, 2819.
- Nothocyon* n. gen., Wortman and Matthew, 6496.
- geismarianus* (Cope), Wortman and Matthew, 6496.
- latidens* (Cope), Wortman and Matthew, 6496.
- lemur* (Cope), Wortman and Matthew, 6496.
- parvidens* (Mivart), Wortman and Matthew, 6496.
- urostictus* (Mivart), Wortman and Matthew, 6496.
- Nothopus kingii* n. sp., Seudder, 4900.
- Nothosaurus*, Case, 768.
- Notothyris* (?) Waagen, Hall and Clarke, 2264, 2266.
- Nucleatula Bittner*, Hall and Clarke, 2264.
- Nucleocrinus greenei* n. sp., Miller and Gurley, 3997a.
- venustus* n. sp., Miller and Gurley, 3997a.
- Nucleospira* Hall, Grabau, 2086.
- Nucleospira* Hall, Hall and Clarke, 2261, 2264.
- concinna* Hall, Grabau, 2086.
- indianensis* n. sp., Miller, 3992.
- obesa* n. sp., Rowley, 4677a.
- pisiformis* Hall, Keyes, 3062.
- rotundata*, Whitfield, 6099.
- Nucula Lamarck*, Dall, 1272.
- Nucula Lamarck*, Grabau, 2086.
- bellistriata*, Conrad, var. *Parvula*, n. var., Clarke, 976.
- catherina* n. sp., Cragin, 1116.
- catherina*, Stanton, 5197.
- chickasaensis* n. sp., Cragin, 1118.
- chipolana* n. sp., Dall, 1272.
- coloradoensis* n. sp., Stanton, 5191.
- coloradoensis* Stanton, Herrick and Johnson, 2465.
- concentrica*, Say, 4813.
- corbuliformis* Hall, Grabau, 2086.
- gabbi* n. sp., Stanton, 5199.
- hornbyensis* nom. prov., Whiteaves, 6085.
- kayseri* n. sp., Clarke, 976.
- lævis*, Say, 4873.
- magnifica* Conrad, Clark, 906.
- magnifica* Con., Harris, 2313.
- manitobensis* n. sp., Whiteaves, 6074.
- mediavia* n. sp., Harris, 2310.
- obliqua*, Say, 4813.
- ovula*, Harris, 2310, 2312.
- proxima*, Whitfield, 6101.
- proxima* Say, Dall, 1272.
- prunicola* n. sp., Dall, 1272.

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- Nucula pulchella* n. sp., Beede and Rogers, 396.
- richardsoni* n. sp., Whiteaves, 6085.
- shaleri* Dall, Dall, 1272.
- sinaria* n. sp., Dall, 1272.
- stella*, Lane, 3400.
- storris* n. sp., Stanton, 5199.
- taphria* n. sp., Dall, 1272.
- ventricosa* Hall, Keyes, 3062.
- Nuculana-arata* (Hall), Girty, 2037.
- bellistriata* Stevens, Keyes, 3062.
- Nuculites* Conrad, Grabau, 2086.
- branneri* n. sp., Clarke, 976.
- erensis*, Hartt and Rathbun, Clarke, 976.
- fallax* n. sp., Cooper, Lane, 3400.
- nyssa*, Hall, var. *Majora*, n. var., Clarke, 976.
- nyssa* Hall, Grabau, 2086.
- oblongatus* Hall, Grabau, 2086.
- smithi* n. sp., Clarke, 976.
- subcuneatus* n. sp., Clarke, 946.
- tryqueter* Conrad, Grabau, 2086.
- (Cleidophorus) *ferrugineum* n. sp., Foerste, 1835.
- Numitor* n. gen., Seudder, 4890.
- claviger*, Seudder, 4890.
- Nyassa arguta*, Whitfield, 6099.
- Nyetodactylus*, Williston, 6220.
- Nyctopora* Nicholson, Lambe, 3374.
- billingsi* Nicholson, Lambe, 3374.
- Nyssa* (?) *cuneata* Newb., Newberry, 4083.
- vetusta* Newb., Newberry, 4083.
- Obeliscus conellus*, n. sp., Whitfield, 6097.
- Obolella Billings*, Hall and Clarke, 2260.
- Obolella* Billings, Matthew, 3789, 3790.
- atlantica* Walcott, Burr, 666.
- atlantica* Walcott, Grabau, 2092.
- atlantica* Walc., Matthew, 3789.
- cf. *chromatica* Bill., Matthew, 3790.
- crassa* (Hall), Grabau, 2092.
- gamagei* n. sp., Hobbs, 320.
- loper* n. sp., Walcott, 5813.
- mickwitzii* n. sp., Walcott, 5813.
- namouna* n. sp., Walcott, 5813.
- nitida* Ford?, Matthew, 3761.
- pandemia* n. sp., Walcott, 5813.
- rhca* n. sp., Walcott, 5813.
- (Linnarsson) *pretiosa* Billings, Dawson, 1452.
- sp., Burr, 666.
- (?) sp., Grabau, 2092.
- Obolus Eichwald*, Hall and Clarke, 2260.
- Obolus* Eichwald, Walcott, 5813.
- anceps* n. sp., Walcott, 5813.
- pristinus* n. sp., Matthew, 3761.
- (Botsfordia) *pulehra*, Matthew, 3751, 3761.
- (Lingulella) *argutus* n. sp., Walcott, 5813.
- auga* n. sp., Walcott, 5813.
- bellus* n. sp., Walcott, 5813.
- bellulus* n. sp., Walcott, 5813.
- desideratus* n. sp., Walcott, 5813.
- dubius* n. sp., Walcott, 5813.
- elli* n. sp., Walcott, 5813.
- euglyphus* n. sp., Walcott, 5813.
- franklinensis* n. sp., Walcott, 5813.

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- Obolus* (*Lingulella*) *hayesi* n. sp., Walcott, 5813.
(Lingulella) *helenae* n. sp., Walcott, 5813.
ino sp., Walcott, 5813.
lamborni var. *mfimus* n. var., Walcott, 5813.
leos n. sp., Walcott, 5813.
lineolatus n. sp., Walcott, 5813.
mosia var. *osceola* n. var., Walcott, 5813.
nanno n. sp., Walcott, 5813.
oweni n. sp., Walcott, 5813.
phaon n. sp., Walcott, 5813.
pogonipensis n. sp., Walcott, 5813.
prindlei n. sp., Walcott, 5813.
punctatus n. sp., Walcott, 5813.
rogersi n. sp., Walcott, 5813.
rotundatus n. sp., Walcott, 5813.
similis n. sp., Walcott, 5813.
sinoe n. sp., Walcott, 5813.
tarpa n. sp., Walcott, 5813.
willisi n. sp., Walcott, 5813.
zetis n. sp., Walcott, 5813.
(Lingulepsis) Hall, Walcott, 5816.
acuminatus var. *meeki*, Walcott, 5816.
Octacodon *valens* n. gen. et sp., Marsh, 3682, 3689.
Oculina *alabamensis* n. sp., Vaughan, 5735.
aldrichi n. sp., Vaughan, 5735.
harrisi n. sp., Vaughan, 5735.
mississippiensis (Conrad), Vaughan, 5735.
singlei n. sp., Vaughan, 5735.
(?) smithi n. sp., Vaughan, 5735.
vicksburgensis (Conrad), Vaughan, 5735.
Odontapsis *elegans* (Agassiz), Clark, 906.
Odontofusus n. gen., Whitfield, 6097.
medians n. sp., Whitfield, 6097.
rostellaroides n. sp., Whitfield, 6097.
slacki, Whitfield, 6097.
typicus n. sp., Whitfield, 6097.
Odontoperis ? *bradleyi* Lx., White, 6050.
wortheni Lx., White, 6049.
Odontophyllum n. gen., Simpson, 4981.
Odontopleura *parvula* Walcott (sp.), 1877, Clarke, 952.
Odontostomia *insignifica* n. sp., Aldrich, 74.
Odontostornia (*Syrnola*) *attenuata* n. sp., Dall, 1259.
caloosacensis n. sp., Dall, 1259.
Odontotrypa, Simpson, 4983.
Oecotraustes *denticulata* n. sp., Hyatt, 2818.
Oehlertella n. subgen., Hall and Clarke, 2260.
Ogygia, Beecher, 366.
Ogygia *Brongniart*, Matthew, 3788.
(Ogygopsis) *klotzi* Roem., Matthew, 3788.
Olcostephanus *cepoides* Whiteaves, Whiteaves, 6095a.
lindgreni n. sp., Hyatt, 2818.
af. portlandicus de Loriol, Aguilera, 57.
potosinus n. sp., Aguilera, 57.
(Astieria) *deansii* n. sp., Whiteaves, 6077, 6095a.
(Polyptychites) *trichotomus* n. sp., Stanton, 5199.
(Simbirskites) *mutabilis* n. sp., Stanton, 5199.

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- Oldhamina* Waagen, Hall and Clarke, 2260, 2261a.
Oldhamia *fruticosa* Hall, Whitfield, 6102.
(Murchisonites) *occidens* n. p., Walcott, 5800.
Olenellus *thompsoni* (Hall) ?, Weller, 6004.
walcotti (Shaler and Foerste), Grabau, 2092.
(Holmia) *broggeri* Walcott, Burr, 666.
(Holmia) *broggeri* Walcott, Grabau, 2092.
(Mesanocis) *asaphoides*, Beecher, 366.
(Mesonacis) *asaphoides* (Emmons) (?), Grabau, 2092.
(Mesonacis) *asaphoides* Emmons sp., Burr, 666.
sp., Burr, 666.
sp., Grabau, 2092.
Oligocarpia *alabamensis* Lx., White, 6052.
cf. *gutbieri* Goepp, White, 6050.
missouriensis n. sp., White, 6050.
Oligoporus *bellulus* n. sp., Miller and Gurley, 3997a.
blairi n. sp., Miller and Gurley, 3997a.
coreyi, Jackson, 2871.
coreyi Meek and Worthen, Keyes, 3077.
dane, Jackson, 2871.
dane (Meek and Worthen), Keyes, 3061, 3077.
? *minutus* n. sp., Beede, 394.
missouriensis n. sp., Jackson, 2871.
mutatus n. sp., Keyes, 3061, 3077.
nobilis Meek and Worthen, Keyes, 3077.
parvus Hambach, Keyes, 3077.
sulcatus n. sp., Miller and Gurley, 3997a.
Oliva *carolinensis*, Whitfield, 6101.
plicata n. sp., Guppy and Dall, 2214.
reticularis, Harris, 2309.
Olivella *galvestonensis* n. sp., Harris, 2309.
indivisa n. sp., Guppy and Dall, 2214.
lata n. sp., Dall, 1259.
mediavia n. sp., Harris, 2310, 2316.
mutica Say, Dall, 1259.
subtexana n. sp., Harris, 2309.
Ollaerinus *papillatus*, Whitfield, 6098.
Omileus *evanidus*, Scudder, 4890.
Omospira n. gen., Ulrich and Scofield, 5541.
alexandra Billings, Ulrich and Scofield, 5541.
laticinnata n. sp., Ulrich and Scofield, 5541.
Omphalocrinus *manitobensis*, Whiteaves, 6074.
Omphalophloios n. gen., White, 6046.
cyclostigma (Lx.) D. W., White, 6050.
Omphalotrochus *springvalensis* (White), Keyes, 3062.
Omphyma *eriphyle* Billings sp., Lambe, 3375.
Onchus *rectus* n. sp., Eastman, 1605.
Oncoceera *carveri* n. sp., Clarke, 953.
douglassi n. sp., Clarke, 953.
exiguum Billings, 1860, Clarke, 953.
lycus Hall, 1861, Clarke, 953.
magnum Whiteaves, Whiteaves, 6087.
(magnum ? var.) intermedium, Whiteaves, 6087.

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- Onocera minnesotense* n. sp., Clarke, 953.
pandion Hall, 1861, Clarke, 953.
whiteavesii Miller, Whiteaves, 6087.
- Onoceras abruptum*, Whitfield, 6102.
alecus, Whitfield, 6102.
lycus, Whitfield, 6102.
pandion, Whitfield, 6102.
plebecium, Whitfield, 6102.
- Oncodoceras* n. gen., Hyatt, 2816.
- Oncosella catinum* n. sp., Rauff, 4548.
- Onochodus sigmoides* Newb., Eastman, 1605.
- Onoclea minima* n. sp., Knowlton, 3255.
- Onolelea sensibillus fossilis* Newb., Newberry, 4083.
- Onychaster asper* n. sp., Miller, 3992.
confragosus n. sp., Miller, 3992.
demissus n. sp., Miller, 3992.
- Onychochilus nitidulus* n. sp., Clarke, 946.
- Onychoerinus cantonensis* n. sp., Miller and Gurley, 3991.
monroensis (Meek and Worthen), Keyes, 3061.
parvus n. sp., Miller and Gurley, 3997a.
pulaskiensis n. sp., Miller and Gurley, 3997d.
ulrichi n. sp., Miller and Gurley, 3991.
- Onychodectes* Cope, Wortman, 6492.
rarus n. sp., Osborn and Earle, 4191.
tissonensis Cope, Osborn and Earle, 4191.
- Opali*, see *Scala* (*Opalia*) H. and A. Adams, Dall, 1259.
- Operculina complanata* DeFrance sp., Woodward and Thomas, 6433.
var. granulosa Leymerie, Woodward and Thomas, 6433.
- Ophiderpeton*, Case, 767.
- Ophidioceras*, Hyatt, 2819.
rudens, Hyatt, 2819.
tener, Hyatt, 2819.
tessallatum, Hyatt, 2819.
- Opileta complanata* Vanuxem, Cleland, 1012.
discus n. sp., Cleland, 1012.
- Opiletina* n. gen., Ulrich and Scofield, 5541.
angularis n. sp., Ulrich and Scofield, 5541.
sublaxa n. sp., Ulrich and Scofield, 5541.
- Ophioglossum granulatum* Herr, Newberry, 4080.
- Ophioglypha bridgerensis* (Morton), Clark, 892.
texana Clark, Clark, 892.
- Ophryastes grandis*, Seudder, 4890.
petrarum, Seudder, 4890.
- Ophryastites* n. gen., Seudder, 4890.
abscensus, Seudder, 4890.
einerus, Seudder, 4890.
digressus, Seudder, 4890.
disperitius, Seudder, 4890.
- Opis californica* n. sp., Stanton, 5199.
texana n. sp., Cragin, 1115.
triangulata Cooper (Stanton), Cooper, 1072.
- Opisthoptera* Meek, Ulrich, 5535.
alternata n. sp., Ulrich, 5535.
ampla n. sp., Ulrich, 5535.
extenuata n. sp., Ulrich, 5535.

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- Opisthoptera fissicosta* Ulrich, 5535.
laticostata n. sp., Ulrich, 5535.
notabilis n. sp., Ulrich, 5535.
obliqua n. sp., Ulrich, 5535.
- Oppelia* ? sp. Stanton, 5206.
- Oracanthus lineatus* n. sp., Newberry, 4082.
pugiunculus St. J. and W., Newberry, 4082.
vetustus, Newberry, 4082.
- Oracodon conulus* n. sp., Marsh, 3671.
- Orbicula Sowerby*, Hall and Clarke, 2260.
- Orbiculoidea d'Orbigny*, Grabau, 2086.
- Orbiculoidea Davidson*, Hall and Clarke, 2260.
- Orbiculoidea d'Orbigny*, Hall and Clarke, 2260.
- Orbiculoidea d'Orbigny*, Winchell and Schuchert, 6319.
batesvillensis n. sp., Weller, 5986.
berzeri, Hall and Clarke, 2268.
capax (White), Weller, 6006.
doria Hall, Grabau, 2086.
hartti n. sp., Clarke, 976.
herzeri n. sp., Hall and Clarke, 2260.
lamellosa Hall ?, Winchell and Schuchert, 6319.
lodiensis Vanuxem, Grabau, 2086.
media Hall, Grabau, 2086.
numulus n. sp., Hall and Clarke, 2260.
numulus, Hall and Clarke, 2268.
(Schizotreta) ovalis n. sp., Hall and Clarke, 2060, 2268.
sp., Girty, 2035.
- Orbulina* ? *intermedia* n. sp., Matthew, 3761.
? ingens n. sp., Matthew, 3761.
ovalis n. sp., Matthew, 3761.
univerda, McClung, 3840.
universa d'Orbigny, Woodward and Thomas, 6433.
- Orchestes languidulus*, Seudder, 4890.
- Oreodon*, Wortman, 6487.
bullatus Leidy, Osborn and Wortman, 4189.
culbertsonii Leidy, Osborn and Wortman, 4189.
culbertsonii Leidy, Stewart, 5236.
gracilis Leidy, Osborn and Wortman, 4189.
- Oriskania* n. gen., Hall and Clarke, 2261a.
navicella, Hall and Clarke, 2261a, 2268.
sinuati n. sp., Clarke, 971.
- Ornithochierus*, Case, 768.
- Ornithomimus*, Marsh, 3701, 3702.
sedens, n. sp., Marsh, 3672.
- Ornithostoma*, Williston, 6224, 6231.
ingens, Williston, 6234.
- Ornithotarsus immanis* Cope, Woolman, 6474.
- Orodus basilis* n. sp., Cope, 1093.
- Oromeryx* (?) Marsh, Scott, 4884.
plicatus n. sp., Marsh, 3690.
- Orophocrinus stilliformis* (Owen and Shumard), Keyes, 3061.
whitel, Whitfield, 6098.
- Orthaulax*, see *Rostellaria* (*Orthaulax*) Gabb, Dall, 1259.
- Orthidium* n. gen., Hall and Clarke, 2260.
- Orthis Dalman*, Hall and Clarke, 2260.
- Orthis Dalman emend* Hall, Winchell and Schuchert, 6319.
amœna N. H. Winchell, Winchell and Schuchert, 6319.

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- Orthis benedicti* n. sp., Miller, 3992.
burlingtonensis Hall, Keyes, 3062.
callactis, Dalman, var. *Amazonica*, n. var., Clarke, 976.
carausii, Matthew, 3746.
corpulenta Sardeson, Sardeson, 4800.
electra Bill., var. *major*, n. var., Matthew, 3746.
lævis n. var., Matthew, 3746.
emacerata Hall, Keyes, 3062.
emacerata Hall, Sardeson, 4800.
euryone Bill., var., Matthew, 3746.
fausta var. *squamosa*, n. var., Foerste, 1835.
flabellites var. *spania*, Hall and Clarke, 2268.
futilis n. sp., Sardeson, 4800.
glypta n. sp., Hall and Clarke, 2261a, 2263.
 (?) *glypta*, Hall and Clarke, 2268.
holstoni Safford, Hall and Clarke, 2260.
 (?) *holstoni*, Hall and Clarke, 2268.
ignota n. sp., Sardeson, 4800.
iowensis Hall, Keyes, 3062.
iowensis ?, Lane, 3400.
meedsii, Winchell and Schuchert, 6298.
meedsii var. *germana*, Winchell and Schuchert, 6298.
meeki S. A. Miller, Sardeson, 4800.
menaple (Hicks ?) var., Matthew, 3746.
multisetia Meek, Sardeson, 4800.
orthambonites (Pander), Matthew, 3746.
panderiana, Hall and Clarke, 2268.
pecosii Marcou, Keyes, 3062.
porrecta n. sp., Sardeson, 4800.
proavita, Winchell and Schuchert, 6298.
 ? *remnicha* Winchell, Walcott, 5816.
rogata Sardeson, Sardeson, 4800.
saffordi n. sp., Hall and Clarke, 2260.
 (?) *saffordi*, Hall and Clarke, 2268.
 (?) *sandbergi* Winchell, Walcott, 5816.
subequata Conrad, Winchell and Schuchert, 6319.
circularis N. H. Winchell, Winchell and Schuchert, 6319.
gibbosa Billings, Winchell and Schuchert, 6319.
perveta Conrad, Winchell and Schuchert, 6319.
testudinaria Dalman, Winchell and Schuchert, 6319.
 var. *conradi* N. H. Winchell, Winchell and Schuchert, 6319.
 var. *emacerata* Hall, Winchell and Schuchert, 6319.
meeki Miller, Winchell and Schuchert, 6319.
subquadrata Hall, Keyes, 3062.
swallowi Hall, Keyes, 3062.
tersa Sardeson, Sardeson, 4800.
testudinaria Sardeson, 4800.
tioga, Whitfield, 6099.
tricenaria Conrad, Keyes, 3062.
tricenaria Conrad, Winchell and Schuchert, 6319.
vanuxemi Hall, Lane, 3400.
 (*Dalmanella*) Hall, Winchell and Schuchert, 6319.

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- Orthis (Dalmanella) arcuaria* n. sp., Hall and Clarke, 2260, 2268.
 (*Dalmanella*) *elegantula*, Foerste, 1835.
freitana n. sp., Clarke, 976.
hamburgensis ? Walcott, Winchell and Schuchert, 6319.
smithi n. sp., Clarke, 976.
superstes n. sp., Hall and Clarke, 2260, 2268.
 (*Dinorthis*) Hall, Winchell and Schuchert, 6319.
deflecta Conrad sp., Winchell and Schuchert, 6319.
pectinella (Emmons) Hall, Winchell and Schuchert, 6319.
 var. *sweeneyi* Winchell, Winchell and Schuchert, 6319.
meedsii W. and S., Winchell and Schuchert, 6319.
 var. *germana* W. and S., Winchell and Schuchert, 6319.
subquadrata Hall, Winchell and Schuchert, 6319.
proavita W. and S., Winchell and Schuchert, 6319.
 (*Hebertella*) Hall, Winchell and Schuchert, 6319.
borealis Billings, Winchell and Schuchert, 6319.
 ? *bellarugosa* Conrad, Winchell and Schuchert, 6319.
daytonensis, Foerste, 1835.
fausta, Foerste, 1835.
 (*Orthis-Dinorthis*) *calligramma*, Foerste, 1835.
 (*Plasiomys*) *loricula* n. sp., Hall and Clarke, 2260, 2268.
 (*Platystrophia*) King, Winchell and Schuchert, 6319.
biforata, Foerste, 1835.
biforata Schlotheim sp., Winchell and Schuchert, 6319.
 var. *crassa* James, Winchell and Schuchert, 6319.
 (*Plectorthis*) Hall, Winchell and Schuchert, 6319.
plieatella Hall, Winchell and Schuchert, 6319.
whitfieldi N. H. Winchell, Winchell and Schuchert, 6319.
 (*Rhipidomella*) *hybrida*, Foerste, 1833.
oweni n. sp., Hall and Clarke, 2260, 2268.
 (*Schizophoria*) *manitobensis* (nom. prov.), Whiteaves, 6074.
seneeta n. sp., Hall and Clarke, 2260, 2268.
 sp., Girty, 2039.
Orthoeceras, Clarke, 940.
Orthoeceras, Breynius, Grabau, 2086.
Orthoeceras, Foerste, 1833.
Orthoeceras Hyatt, 2820.
albersi S. A. Miller, Miller and Faber, 3997.
ef. amplicameratum Hall, 1847, Clarke, 953.
anellus Conrad, 1843, Clarke, 953.

Paleontology—Continued.

Genera and species described—Continued.

- Orthoceras annulatum*, var. *americanum*, Whiteaves, 6080.
anulax Hall, Grabau, 2086.
barquianum Win., Lane, 3400.
beauportense n. sp., Whiteaves, 6089.
beltramii n. sp., Clarke, 953.
bilineatum Hall, 1847, Clarke, 953.
caldwellensis n. sp., Miller and Gurley, 4002.
cf. *catulus* Bill., Matthew, 3746.
chemungense Swallow, Weller, 5894.
clinocameratum Win., Lane, 3400.
colletti n. sp., Miller, 3995.
constrictum Vanuxem, Grabau, 2086.
cribrosum Geinitz, Miller, 3995.
darwinii Billings, Whiteaves, 6080.
emaceratum Hall, Grabau, 2086.
eriense Hall, Grabau, 2086.
eurekensis (Walcott) (?) Weller, 5986.
exile Hall, Grabau, 2086.
faulerensis, Keyes, 3105.
fenestrulatum n. sp., Clarke, 946.
franklinense n. sp., Miller, 3995.
geneva n. sp., Clarke, 946.
gorbyi n. sp., Miller, 3995.
hagersvillense n. sp., Whiteaves, 6089.
harii n. sp., Miller, 3992.
heterocinctum Win., Weller, 6006.
incarceratum n. sp., Clarke, 946.
inceptum var. *acceleratum* n. var., Foerste, 1835.
indianense Hall, Lane, 3400.
indianense, Weller, 6006.
junceum Hall, 1847, Clarke, 953.
leseuri n. sp., Clarke, 953.
ludlowense n. sp., Miller and Faber, 3997.
multicameratum Emmons, 1842, Clarke, 953.
nicolleti n. sp., Clarke, 953.
nuntium Hall, Grabau, 2086.
nuntium, Whitfield, 6099.
nuntoides n. sp., Clarke, 946.
olorus Hall, 1877, Clarke, 953.
ozarkensis Shumard, Keyes, 3062.
perroti n. sp., Clarke, 953.
planoconvexum, Whitfield, 6102.
cf. *primus* Bill., Matthew, 3746.
cf. *primigenium* Vanuxem, Calvin, 684.
primigenium Vanuxem, Cleland, 1012.
rude Hall, Girty, 2037.
scammoni McChesney, Whiteaves, 6080.
selkirkensis Whiteaves, Whiteaves, 6087.
sociale Hall, 1877, Clarke, 953.
sociale, Whitfield, 6102.
staffordensis n. sp., Clarke, 946.
subulatum Hall, Grabau, 2086.
telamon Hall, Grabau, 2086.
tenuistriata Hall, Whiteaves, 6089.
tenuistriatum Hall, 1847, Clarke, 953.
walpolemense n. sp., Whiteaves, 6089.
westoni n. sp., Whiteaves, 6089.
whitei Win., Weller, 6006.
winnipegense Whiteaves, Whiteaves, 6089.
sp., Clarke, 976.
sp., Girty, 2039.

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Genera and species described—Continued.

- Orthoceras* (*Actinoceras*) *clavatum*, Foerste, 1835.
youngi, Foerste, 1835.
(*Cycloceras*) *amycus*, Foerste, 1835.
inceptum, Foerste, 1835.
(*Eu-Orthoceras*) *ignotum*, Foerste, 1835.
erraticum, Foerste, 1835.
hanoverense, Foerste, 1835.
virgulatum, Foerste, 1835.
(*Spyroceras*?) *syproceroides* n. sp., Foerste, 1835.
Orthodesma Hall and Whitfield, Ulrich, 5539.
affine n. sp., Whiteaves, 6087.
ashmani n. sp., Miller and Faber, 3997.
canaliculatum, Ulrich, 5539.
cylindricum n. sp., Miller and Faber, 3996.
cymbula n. sp., Miller and Faber, 3997.
minnesotense n. sp., Ulrich, 5534.
minnesotense Ulrich, Ulrich, 5539.
mundum n. sp., Miller and Faber, 3994.
parvum n. sp., Ulrich, 5535.
saffordi n. sp., Ulrich, 5534.
scaphula n. sp., Miller and Faber, 3997.
schucherti n. sp., Ulrich, 5539.
subangulatum n. sp., Ulrich, 5535.
subnasutum Meek and Worthen, Ulrich, 5539.
Orthonychia Hall, Keyes, 3062.
acutirostre (Hall), Keyes, 3062.
chesterense (Meek and Worthen), Keyes, 3062.
cyrtolites (McChesney), Keyes, 3062.
formosum (Keyes), Keyes, 3062.
spirale (Hall), Keyes, 3062.
tortuosa Hall, Clarke, 971.
Orthonota Conrad, Grabau, 2086.
(?) *parvula* Hall, Grabau, 2086.
Orthopsis occidentalis n. sp., Cragin, 1115.
Orthorhynchula Hall, Hall and Clarke, 2261a, 2264.
Orthostrophia Hall, Hall and Clarke, 2260.
strophomenoides Hall, Girty, 2037.
Orthotheca Novak, Matthew, 3788, 3790.
bayonet, Matthew, 3790.
corrugata n. sp., Matthew, 3788.
cylindrica n. sp., Grabau, 2092.
cylindrica Grabau, mss., Burr, 666.
de geeri Holm, Matthew, 3751.
emmonsi (Ford), Grabau, 2092.
emmonsi Ford, Matthew, 3751.
cf. *emmonsi*, Matthew, 3761.
(?) *foerstei* n. sp., Grabau, 2092.
pugio, Matthew, 3790.
sica, Matthew, 3790.
stileto, Matthew, 3790.
Orthothetes Fischer de Waldheim, Grabau, 2086.
Orthothetes Fischer de Waldheim, Hall and Clarke, 2260.
arctostriatus Hall, Grabau, 2086.
beecraftensis n. sp., Clarke, 971.
bellulus n. sp., Clarke, 946.
chemungensis (Conrad) Hall and Clarke, Girty, 2039.
chemungensis var., Girty, 2039.

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Orthothetes chemungensis (Conrad), Weller, 5994.

desideratus n. sp., Hall and Clarke, 2260, 2268.

inaequalis Hall, Girty, 2038.

inaequalis (Hall), Weller, 6006.

perversus Hall, Grabau, 2086.

Orthotichia, Hall and Clarke, 2260.

Orthotropia dolomitica, Hall and Clarke, 2268.

Ortonella hainesi, Ulrich, 5535.

Oryctoblattina laqueata n. sp., Scudder, 4898.

Oryctocephalus Walcott, Matthew, 3788.

reynoldsi n. sp., Reed, 542.

walkeri n. sp., Matthew, 3788.

Oryctogma n. gen., Scudder, 4894.

sackenii, Scudder, 4894.

Oryctomya n. subgen., Dall, 1277.

Oryctorhinus n. gen., Scudder, 4890.

tenuirostris, Scudder, 4890.

Oryctoscirtetes protogeum, Scudder, 4900.

Oscilla indiscreta n. sp., Guppy and Dall, 2214.

Osmotherium Cope, 1104.

spekeum, Cope, 1101, 1104.

Osmunda affinis Lx., Knowlton, 3255.

doroschkiana Göppert, Knowlton, 3232.

Osteocephalus, Case, 767.

Osteolepis, Case, 767.

Ostrakiehnites carbonarius Dawson, Packard, 4229.

Ostrea Lamarck, Dall, 1272.

alabamiensis Lea, Dall, 1272.

alabamiensis Lea, Harris, 2313.

alifera n. sp., Cragin, 1115.

var. nov. *pediformis*, Cragin, 1115.

alternans n. sp., Cragin, 1115.

anceps n. sp., Logan, 3554.

anomoides Meek, Stanton, 5191.

attenuata n. sp., Logan, 3557.

bella Con., Cragin, 1115.

bellaplicata Shum., Cragin, 1115.

beloiti n. sp., Logan, 3555.

camelina n. sp., Cragin, 1115.

canonensis n. sp., Logan, 3557.

carica n. sp., Cragin, 1115.

carolinensis Conrad, Dall, 1272.

comoensis n. sp., Logan, 3559.

compressirostra Say, Clark, 906.

compressirostra Say, Dall, 1272.

compressirostra, Harris, 2313.

compressirostra, Say, 4983.

congesta Conrad, Logan, 3554, 3557.

congesta Conrad, Stanton, 5191.

convexa, Say, 4983.

crenula n. sp., Logan, 3557.

crenulimarginata Gabb, Dall, 1272.

crenulimarginata, Harris, 2310, 2315.

crenulimargo Roem., Cragin, 1115.

var. nov. *stonewallensis*, Cragin, 1115.

cretacea Morton, Aldrich, 73.

densa n. sp., Logan, 3559.

diluviana Linn, Cragin, 1115.

exogyroidea n. sp., Logan, 3557.

falco, n. sp., Dall, 1269.

falco Dall, 1272.

franklini Coq., Cragin, 1115.

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Ostrea franklini, Coquand?, Herriek and Johnson, 2465.

franklini ragsdalei n. var., Hill, 2539.

georgiana Conrad, Dall, 1272.

glabra, White, Herriek and Johnson, 2465.

haitensis Sowerby, Dall, 1272.

haydeni n. sp., White, 6036.

incurva n. sp., Logan, 3557.

jewellensis n. sp., Logan, 3557.

johnsoni Aldrich, Dall, 1272.

kansasensis n. sp., Logan, 3557.

larva, Harris, 2315.

lata n. sp., Logan, 3557.

leclii n. sp., Logan, 3557.

lugubris Con., Cragin, 1115.

lugubris Conrad, Logan, 3554.

lugubris Conrad, Stanton, 5191.

lyoni Shum., Cragin, 1115.

malachitensis n. sp., Stanton, 5191.

megodon, Dall, 1272.

munsoni n. sp., Hill, 2540.

percrassa Conrad, Dall, 1272.

percrassa, Whitfield, 6101.

perversa n. sp., Cragin, 1115.

plumosa Mort., Cragin, 1115.

plumosa, Harris, 2315.

podagrina n. sp., Dall, 1269, 1272.

prae-compressirostra n. sp., Harris, 2305.

pulaskensis Harris, Dall, 1272.

pulaskensis, Harris, 2310, 2315.

prudentia White, Stanton, 5191.

sculpturata Conrad, Dall, 1272.

sellaformis Conrad, Clark, 906.

sellaformis Conrad, Dall, 1272.

sellaformis Conrad, Harris, 2313.

soleniscus, Stanton, 5191.

soleniscus Mk., Cragin, 1115.

strigilecula White, Logan, 3559.

strigilecula White, Stanton, 5206.

subovata Shum., Cragin, 1115.

subspatulata Forbes, Cragin, 1115.

thirsa Gabb, Dall, 1272.

thirsa, Harris, 2313, 2315.

trigonalis Dall, 1272.

var. *sylvaeupis*, Harris, 2313.

translucida M. and H., Herriek and Johnson, 2465.

uniformis Meek, Stanton, 5191.

vicksburgensis Conrad, Dall, 1272.

virginiana, Whitfield, 6101.

var. *procyon*, Whitfield, 6101.

virginica Gmelin, Dall, 1272.

welleri n. sp., Logan, 3557.

willistoni n. sp., Logan, 3557.

(*Alectronta*) *larva* Lamarck, Logan, 3554.

(*Gryphaeostrea*) *subversa* Conrad, Dall, 1272.

sp., Clark, 906.

sp., Herriek and Johnson, 2465.

sp., Stanton, 5199.

Otiorhynchites absentivus, Scudder, 4890.

commutatus, Scudder, 4890.

fossilis, Scudder, 4890.

tysoni, Scudder, 4890.

Otiorhynchus flaccus, Scudder, 4890.

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Genera and species described—Continued.

- Otiorynchus subterastus, Scudder, 4890.
 Otocelus testudineus Cope, Cope, 1102.
 Otoliths, Clark, 906.
 Otozamites carolinensis Fontaine, Ward, 5857.
 Ottelia americana Lx., Knowlton, 3264.
 Ovula (Transovula) multicarinata n. sp.,
 Dall, 1259.
 Owenella n. gen., Ulrich and Scofield, 5541.
 antiquata Whitfield sp., Ulrich and Scofield, 5541.
 Oxyacodon n. gen., Osborn and Earle, 4191.
 apiculatus n. sp., Osborn and Earle, 4191.
 Oxyana forcipata Cope, Osborn and Wortman, 4180.
 huerfanensis n. sp., Osborn, 4193a.
 lupina, Osborn, 4222.
 lupina Cope, Wortman, 6495.
 Oxyanodon dysodus n. gen. et sp., Wortman, 6495.
 lupina Cope, Osborn and Wortman, 4180.
 Oxyelenus (Cope) Scott, Matthew, 3801.
 cuspidatus Cope, Matthew, 3801.
 simplex (Cope), Matthew, 3801.
 Oxydiscus Koken, Ulrich and Scofield, 5541.
 cristatus Safford, Ulrich and Scofield, 5541.
 subacutus n. sp., Ulrich and Scofield, 5541.
 Oxyporus stiriacus, Scudder, 4896.
 Oxyrhina hastalis Agassiz, Clark, 906.
 mantelli Agassiz, Eastman, 1595.
 mantelli, Williston, 6259.
 Pachyana gigantea n. sp., Osborn and Wortman, 4180.
 intermedia n. sp., Wortman, 6495.
 ossifraga Cope, Osborn and Wortman, 4180.
 Pachydietya, Simpson, 4983.
 Pachydietya Ulrich, Ulrich, 5537.
 acuta Hall, Ulrich, 5537.
 elegans n. sp., Ulrich, 5537.
 fimbriata Ulrich, Ulrich, 5537.
 foliata Ulrich, Ulrich, 5537.
 occidentalis Ulrich, Ulrich, 5537.
 pumila Ulrich, Ulrich, 5537.
 triserialis Ulrich, Ulrich, 5537.
 Pachydiscus brazoensis Shum, Cragin, 1115.
 complexus H. and M., Cragin, 1115.
 haradai Jimbo, Whiteaves, 6085.
 sp. ?, Whiteaves, 6084.
 Pachylobius compressus, Scudder, 4890.
 deleticius, Scudder, 4890.
 depredatus, Scudder, 4890.
 Pachymelania n. gen., White, 6036.
 eleburni White, White, 6036.
 chrysalis Meek, White, 6036.
 chrysilloidea White, White, 6036.
 ? macilenta White, White, 6036.
 turricula n. sp., White, 6036.
 Pachyphyllum sp., Girty, 2038.
 Pachyrhizodus leptognathus n. sp., Stewart, 5240.
 minus, Stewart, 5242.
 velox n. sp., Stewart, 5240.
 Pagiophyllum, Dawson, 1434.
 dubium n. sp., Fontaine, 1846, 1847.
 peregrinum (Lindley and Hutton) Schenk, Ward, 5857.

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Genera and species described—Continued.

- Pagiophyllum williamsonis (Brongniart) Fontaine, Ward, 5857.
 Palaeis cavernosa n. sp., Miller, 3992.
 obtus (Meek and Worthen), Keyes, 3061.
 Palaeacmaea? cingulata n. sp., Whiteaves, 6084.
 Palaeamea Hall and Whitfield, Ulrich and Scofield, 5541.
 humilis n. sp., Ulrich and Scofield, 5541.
 Palaeanthus (Williamsonia) problematicus n. sp., Newberry, 4080.
 Palaeaspis (Claypole), Claypole, 983.
 Palaeastacus (?) ornatus Whiteaves, Woodward, 6442.
 Palaeaster Hall, James, 2896.
 antiqua (Locke), James, 2896.
 antiqua (Troost), James, 2896.
 clarkianus S. A. Miller, James, 2896.
 eucharis Hall, Cole, 1325.
 exculptus S. A. Miller, James, 2896.
 dubius Miller and Dyer, James, 2896.
 dyeri Meek, James, 2896.
 finei Ulrich, James, 2896.
 granulosus Hall, James, 2896.
 incomptus Meek, James, 2896.
 jamesii Dana, James, 2896.
 longibrachiatus S. A. Miller, James, 2896.
 magnificus S. A. Miller, James, 2896.
 miamiensis S. A. Miller, James, 2896.
 shaefferi Hall, James, 2896.
 simplex Miller and Dyer, James, 2896.
 speciosa (Miller and Dyer), James, 2896.
 spinulosus Miller and Dyer, James, 2896.
 wyckoffi n. sp., Miller and Gurley, 4003.
 Palaeichnus burlingtonensis Meek and Worthen, Keyes, 3077.
 gigas Jackson, 2871.
 gracilis Meek and Worthen, Keyes, 3077.
 Palaeictops n. gen., Matthew, 3804.
 Palaeon, Beecher, 366.
 Palaeocampa (?) obscura n. sp., Matthew, 3759.
 Palaeocassia laurinea n. sp., Lesquereux, 3470.
 Palaeoconcha faberi S. A. Miller, Miller and Faber, 3997.
 Palaeocorystes harveyi n. sp., Woodward, 6440.
 Palaeoconus dumblianus Cope n. sp., Cope, 1087.
 orthodon Cope n. sp., Cope, 1087.
 Palaeolagus intermedius n. sp., Matthew, 3804.
 Palaeomeryx americanus n. sp., Douglas, 6540.
 madisonius n. sp., Douglas, 6540.
 Palaeomylus Woodward (1891), Eastman, 1601.
 greenei Eastman, 1601.
 predator n. sp., Eastman, 1601.
 Palaeoneilo Hall, Grabau, 2086.
 constricta (Conrad), Grabau, 2086.
 constricta (Conrad)?, Weller, 5994.
 emarginata (Conrad), Grabau, 2086.
 fecunda Hall, Grabau, 2086.
 muta Hall, Grabau, 2086.
 orbignyi n. sp., Clarke, 976.
 palaeoneilo sp., Clarke, 976.
 pondiana Hartt and Rathbun, Clarke, 976.
 similis, Whitfield, 6099.
 ? simplex Hartt and Rathbun, Clarke, 976.
 sulcata Hartt and Rathbun, Clarke, 976.

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- Palaeoneilo sulcatina*, Lane, 3400.
tenuistriata Hall, Grabau, 2076.
truncata Hall, Weller, 5994.
- Palaeonictis*, Osborn, 4186a.
occidentalis n. sp., Osborn and Wortman, 4180.
- Palaeopalaemon* Whitfield, Whitfield, 6099.
newberryi, Whitfield, 6096, 6099.
- Palaeophonos arctus* n. sp., Matthew, G. F., 3758.
- Palaeophycus* Hall, Duden, 1554.
lineare n. sp., Duden, 1554.
new-albanense n. sp., Duden, 1554.
- Palaeophyllum*, James, 2881.
divaricans, James, 2881.
- Palaeopteria* n. gen., Whiteaves, 6087.
parvula n. sp., Whiteaves, 6087.
- Palaeoptysma* n. gen., Scudder, 4895.
venosa n. sp., Scudder, 4895.
- Palaeosaccus* Hinde, Dawson, 1452.
dawsoni Hinde, Dawson, 1452.
dawsoni Hinde, Rauff, 4548.
- Palaeoscincus* Leidy, Marsh, 3674.
- Palaeosolen occidentalis* n. sp., Miller and Gurley, 4002.
- Palaeospondylus*, Gill, 2023.
gunni Traquair, Dean, 1476.
- Palaeosyopinae*, Osborn, 4190.
- Palaeosyops*, Case, 769.
borealis, Earle, 1590.
borealis Cope, Osborn and Wortman, 4180.
borealis Cope, Matthew, 3802.
laevideus, Earle, 1590.
longirostris n. sp., Earle, 1590.
megarhinus, Earle, 1590.
minor, Earle, 1590.
paludosus, Earle, 1590.
- Palaeotetrix gilli* n. gen. et sp., Shufeldt, 4960.
- Palaeotrochis*, White, 6038.
- Palaeotrochis*, Williams, 6187.
- Palasterina* (McCoy) Salter, James, 2896.
- Palaeophora* sp., Scudder, 4895.
- Paleohillia*, Holm, 2714.
arkansana, n. gen. et sp., Knowlton, 3237.
- Paleopupa abrupta* n. gen. et sp., Foerste, 1835.
- Paleschara* Hall, Grabau, 2086.
amplectens Hall, Grabau, 2086.
intercella Hall, Grabau, 2086.
reticulata Hall, Grabau, 2086.
- Palissya brevifolia* (Emmons) Fontaine, Ward, 5857.
diffusa (Emmons) Fontaine, Ward, 5857.
sphenolepis (Friedrich Braun) Brongniart, Ward, 5857.
- Paliurus anceps* n. sp., Lesquereux, 3470.
columbi Heer, Knowlton, 3255.
cretaceous n. sp., Lesquereux, 3470.
integrifolius n. sp., Hollick, 2672.
integrifolius Hollick (?), Hollick, 2698.
membranaceus Lesq., Lesquereux, 3470.
minimus n. sp., Knowlton, 3255.
neilii n. sp., Dawson, 1436.
obovatus n. sp., Lesquereux, 3470.

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- Paliurus ovalis* Dawson, Lesquereux, 3470.
ovalis Dn., Newberry, 4080.
zizyphoides ? Lx., Knowlton, 3255.
- Palosetrus* n. gen., Scudder, 4889.
oligocenus, Scudder, 4889.
- Paltorhynchus* n. gen., Scudder, 4889.
(?) bisulcatus, Scudder, 4889.
narwhal, Scudder, 4889.
rectirostris, Scudder, 4889.
- Pauoethus*, Case, 769.
- Panomya* Gray, Dall, 1272.
ampla, Dall, 1272.
norvegica Spengler, Dall, 1272.
- Panopea* Menard, Dall, 1272.
americana, Conrad, Dall, 1272.
elongata Conrad, Clark, 906.
floridana Heilprin, Dall, 1272.
goldfussi Wagner, Dall, 1272.
goldfussi, Whitfield, 6101.
grenerosa Gould, Dall, 1272.
porrectoides var. Ald., Harris, 2311.
reflexa, Say, 4813.
reflexa Say, Dall, 1272.
whitfieldi Dall, Dall, 1272.
- Pantastuarus striatus*, Marsh, 3695.
- Pantolambda*, bathmodon Cope, Osborn, 4205.
bathmodon, Cope, Osborn and Earle, 4191.
cavirictus Cope, Osborn, 4205.
- Pantylus coicodus* n. sp., Cope, 1097.
- Papillina papillata* Con., Harris, 2311.
staminea Con. var., Harris, 2311.
- Parabatrachus*, Hay, 2381.
- Parabolinella posthuma* n. sp., Matthew, 3746.
- Paracetus mediantlanticus* n. sp., Cope, 1096.
- Paracyathus alternatus* n. sp., Vaughan, 5735.
bellus n. sp., Vaughan, 5735.
(?) clarkeanus n. sp., Vaughan, 5720, 5722.
cyllindricus n. sp., Vaughan, 5735.
granulosus, n. sp., Vaughan, 5735.
rugosus n. sp., Vaughan, 5735.
vaughani n. sp., Gane, 1934.
- Paracyclas* Hall, Grabau, 2086.
lirata (Conrad), Grabau, 2086.
sp., Girty, 2039.
- Paradoxides abenacus* mut., Matthew, 3776.
harlani Green, Grabau, 2092.
harlani, James, 2893.
- Parahys aberrans* n. sp., Marsh, 3690.
- Paralegoeceras Hyatt*, Smith, 5046
iowense, Hyatt, 2816.
iowense Meek and Worthen, Smith, 5046.
- Paralogus* n. gen., Scudder, 4892.
aeschnoides, Scudder, 4892.
- Parameryx* Marsh, Scott, 4883.
laevis n. sp., Marsh, 3690.
(Leptotragulus) proavus, Wortman, 6493.
- Paramya* Conrad, Dall, 1272.
subovata Conrad, Dall, 1272.
- Paramys uintensis* n. sp., Osborn, 4190.
- Parapholas* Conrad, Dall, 1272.
sphenoides White, Logan, 3554.
sphenoides White, Stanton, 5191.
sp., Logan, 3554.

Paleontology—Continued.

Genera and species described—Continued.

- Parasinilia ludoviciana* n. sp., Vaughan, 5735.
Parastrophia Hall, Hall and Clarke, 2261a, 2264.
 divergens n. sp., Hall and Clarke, 2261a, 2263, 2268.
 greenii n. sp., Hall and Clarke, 2261a, 2263, 2268.
 latiplicata n. sp., Hall and Clarke, 2261a, 2263, 2268.
 multiplicata n. sp., Hall and Clarke, 2261a, 2263, 2268.
Parasaurus striatus, Marsh, 3695.
Parazyga n. gen., Hall and Clarke, 2261, 2264.
Parazyga Hall and Clarke, Grabau, 2086.
 hirsuta Hall, Grabau, 2086.
Pareiasaurus, Case, 768.
Parenchymophycus n. gen., Duden, 1554.
 asphalticum n. sp., Duden, 1554.
Pariotichus Cope, Cope, 1097.
 aguti, Cope, 1097.
 hamatus n. sp., Cope, 1097.
 isolomus n. sp., Cope, 1097.
Parisocrinus subramosus, Springer, 5163.
Parka decipiens, Dawson and Penhallow, 1438.
Parnophorella acadia (Hartt), Grabau, 2092.
 (?) *paupera*, Bill., sp., Matthew, 3790.
Parolamia rudis, Scudder, 4900.
Paromyiaeris ampla, Scudder, 4898.
 clintoniana n. sp., Scudder, 4898.
 ? *pluteus* n. sp., Scudder, 4898.
 triangularis n. sp., Scudder, 4898.
Paropsonema cryptophya, Clarke, 973.
Parrotia canfieldi n. sp., Lesquereux, 3470.
 grandidentata n. sp., Lesquereux, 3470.
 winchelli n. sp., Lesquereux, 3470.
Pasceolus darwini, James, 2881.
 globosus, James, 2881.
 gregarius? Billings, Whiteaves, 6087.
 (?) *tumidus*, James, 2881.
Passiflora antiqua n. sp., Newberry, 4080.
Patella geometrica n. sp., Merriam, 3919, 3923.
Patellina texana (Roemer), Hill, 2539.
Patellostium, Girty, 2037.
Patellostium Waagen, Ulrich and Scofield, 5541.
 nodocostatum (Gurley), Girty, 2037.
 scriptiferus (White), Weller, 6006.
Paterula Barrande, Hall and Clarke, 2260.
 amii n. sp., Schuchert; 4849.
Pathenoides, Beecher, 366.
Patriofelis, Wortman, 6484.
 ferox, Osborn, 4222.
 ? *leidyanus* n. sp., Osborn and Wortman, 4180.
 ulta Leidy, Osborn, 4193a.
Patrobus gelatus, Scudder, 4896.
Pattersonia, James, 2881.
 aurita (Beecher)?, Rauff, 4548.
 difficilis, James, 2881.
 difficilis S. A. Miller, Rauff, 4548.
 tuberosa, James, 2881.
 tuberosa (Beecher), Rauff, 4548.
 ulrichi n. sp., Rauff, 4548.
Pauliella Munier Chalmas, Dall, 1281.

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Genera and species described—Continued.

- Pehyornis*, Case, 769.
Pecopteris cf. arborescens (Schloth.) Brongn., White, 6050.
 borealis Brongn., Fontaine, 1850.
 browniana, Dawson, 1434.
 clintoni Lx., White, 6050.
 dentata Brongn. (non Will.), White, 6040, 6049.
 geyeriana Nathorst, Fontaine, 1850.
 jenneyi n. sp., White, 6050.
 lesquereuxii D. W., White, 6049.
 oreopteridia (Schloth.) Stb., White, 6049.
 polymorpha Brongn., White, 6049.
 pseudovestita n. sp., White, 6050.
 richardsoni n. sp., White, 6049.
 serrulata Hartt, White, 6052.
 squamosa Lx., White, 6050.
 unita Brongn., White, 6049.
 vestita Lx., White, 6050.
 var. *minor* n. var., White, 6049.
 (*Asterotheca*) *hemitelioides* Brongn.?, White, 6050.
 (*Asterotheca*) *lesquereuxii* n. sp., White, 6040.
 (*Asterotheca*) *squamosa* Lx., White, 6048.
 (*Cheilanthes*) *sepulta* Newb., Newberry, 4083.
 (*Dactylotheca*) *dentata* Brongn. (non Will.), White, 6050.
 (*Ptychocarpus*) *unita* Brongn.?, White, 6040.
Peeten Müller, Dall, 1222.
 alabamensis, Harris, 2310.
 californicus Gabb?, Stanton, 5199.
 centrotus (perplanus var.?), Dall, 1272.
 choctavensis n. sp., Aldrich, 73.
 clarkeanus n. sp., Aldrich, 73.
 clintonius, Say, 4813.
 complexicosta Gabb, Stanton, 5199.
 cretaceus n. sp., Dall, 1272.
 discus Conrad, Cooper, 1471.
 hericeus var. *hindsii* Carpenter, Dall, 1272.
 var. *strategus* Dall, Dall, 1272.
 inconspicuus n. sp., Cragin, 1118.
 jeffersonius, Say, 4813.
 jeffersonius var. *septenarius* Say, Dall, 1272.
 johnsoni n. sp., Clark, 904, 906.
 madisonius, Say, 4813.
 madisonius var. *sayanus* n. var., Dall, 1272.
 madisonius, Whitfield, 6101.
 rogersi n. sp., Clark, 904, 906.
 septenarius, Say, 4813.
 stantoni n. sp., Hill, 2539.
 vicenarius (?), Whitfield, 6101.
 (*Equipecten*?) *chipolanus* n. sp., Dall, 1272.
 choctavensis Aldrich, Dall, 1272.
 glyptus Verrill, Dall, 1272.
 inaequalis Sowerby, Dall, 1272.
 oxygonum Sowerby, Dall, 1272.
 perplanus Morton, Dall, 1272.
 scissuratus n. sp., Dall, 1272.
 suwaneensis n. sp., Dall, 1272.
 thetidis Sowerby, Dall, 1272.

Paleontology—Continued.*Genera and species described—Continued.*

- Pecten (Amusium) Boltén, Dall, 1272.
 (Amusium) ocalanus n. sp., Dall, 1272.
 precursor n. sp., Dall, 1272.
 (Chlamys) Boltén, Dall, 1272.
 altiplicatus Conrad, Dall, 1272.
 aluminis n. sp., Dall, 1272.
 clarkeanus Aldrich, Dall, 1272.
 cocoanus n. sp., Dall, 1272.
 coecymelus n. sp., Dall, 1272.
 decemnarius Conrad, Dall, 1272.
 deshayesii Lea, Dall, 1272.
 exasperatus Sowerby, Dall, 1272.
 fucanus n. sp., Dall, 1272.
 greggi Harris, Dall, 1272.
 harrisii n. sp., Dall, 1272.
 hericeus Gould, Dall, 1272.
 var. navarchus Dall, Dall, 1272.
 indecisus n. sp., Dall, 1272.
 interlineatus Gabb, Dall, 1272.
 islandicus Müller, Dall, 1272.
 kneiskerni Conrad, Dall, 1272.
 latiauritus Conrad, Dall, 1272.
 var. fucicolus, Dall, 1272.
 var. monotimeris Conrad, Dall, 1272.
 nuperus Conrad, Dall, 1272.
 opunta n. sp., Dall, 1272.
 ornatus Lamarek, Dall, 1272.
 var. vaginulus Dall, Dall, 1272.
 parmeleii n. sp., Dall, 1272.
 tricenarius Conrad, Dall, 1272.
 wahtubbeanus n. sp., Dall, 1272.
 var. wilcoxii n. sp., Dall, 1272.
 (Euvoia) bowdenensis n. sp., Dall, 1272.
 (Hinnites) Deffrance, Dall, 1272.
 (Lyropecten) Conrad, Dall, 1272.
 (Nodipecten) anatis Morton, Dall, 1272.
 antillarum Reclus, Dall, 1272.
 caloosensis n. sp., Dall, 1272.
 condylomatus n. sp., Dall, 1272.
 nodosus Linné, Dall, 1272.
 peedeensis Tuomey and Holmes, Dall, 1272.
 pulchricosta Meyer and Aldrich, Dall, 1272.
 rogersi Conrad, Dall, 1272.
 subnodosus Sowerby, Dall, 1272.
 (Patinopecten) Dall, Dall, 1272.
 bellus Conrad, Dall, 1272.
 biformis Conrad, Dall, 1272.
 burnsii n. sp., Dall, 1272.
 caurinus Gould, Dall, 1272.
 compactus n. sp., Dall, 1272.
 coosensis Shumard, Dall, 1272.
 diegensis, Dall, Dall, 1272.
 eugrammatus n. sp., Dall, 1272.
 expansus Dall, Dall, 1272.
 hemicyclius Racencl, Dall, 1272.
 hemphillii Dall, Dall, 1272.
 humphreysi Conrad, Dall, 1272.
 poulsoni Morton, Dall, 1272.
 propatulus Conrad, Dall, 1272.
 ravemeli n. sp., Dall, 1272.
 soror Gabb, Dall, 1272.
 stearnsii, Dall, 1272.

Paleontology—Continued.*Genera and species described—Continued.*

- Pecten (Placopecten) Verrill, Dall, 1272.
 (Placopecten) clintonius Say, Dall, 1272.
 marylandicus Wagner, Dall, 1272.
 (Plagiectenium) excentricus Gabb, Dall, 1272.
 demiurgus n. sp., Dall, 1272.
 deserti Conrad, Dall, 1272.
 gabbii Dall, Dall, 1272.
 gibbus Linne, Dall, 1272.
 var. amplicostatus Dall, Dall, 1272.
 var. borealis, Dall, 1272.
 var. dislocatus Say, Dall, 1272.
 var. irradians Lamarek, Dall, 1272.
 var. nucleus Born, Dall, 1272.
 magellanicus Emelin, Dall, 1272.
 oboreus Conrad, Dall, 1272.
 var. comparilis Tuomey and Holmes, Dall, 1272.
 var. darlingtonensis Dall, 1272.
 var. eboreus Conrad, Dall, 1272.
 var. scutecens Dall, Dall, 1272.
 var. solarioides Heilprin, Dall, 1272.
 var. yorkensis Conrad, Dall, 1272.
 pablocensis Conrad, Dall, 1272.
 subventricosus n. sp., Dall, 1272.
 virginianus Conrad, Dall, 1272.
 (Procamusium) alabamensis Aldrich, Dall, 185.
 alaskensis Dall, Dall, 1272.
 (Pseudamusium) H. and A. Adams, Dall, 1272.
 calvatus Morton, Dall, 1272.
 cerinus Conrad, Dall, 1272.
 frontalis Dall, 1272.
 guppyi n. sp., Dall, 1272.
 scintillatus Conrad, Dall, 1272.
 sp., Clark, 906.
 sp., Harris, 2309.
 sp., Stanton, 5199.
 sp.?, Whiteaves, 6084.
 Pectunculus, Harris, 2310.
 idoneus Conrad, Clark, 906.
 idoneus, Harris, 2313.
 (?) ovatus n. sp., Stanton, 5197.
 subovatus, Say, 4813.
 veatchi (Gabb), Stanton, 5198.
 var. major n. var., Stanton, 5198.
 virginie Wagner, Dall, 1273.
 Pediacus perilitans n. sp., Seudder, 4900.
 Pedinopsis pondi Clark, Clark, 892.
 Pedicætes lucasi n. sp., Shufeldt, 4960.
 nanus n. sp., Shufeldt, 4960.
 Pelagiella n. gen., Matthew, 3761.
 atlantoides n. sp., Matthew, 3761.
 Pelion, Case, 767.
 Pelyciotis lobulatus n. gen. et sp., Cope, 1101.
 lobulatus Cope, Cope, 1104.
 Pelycorhamphus petortus n. gen. et sp., Cope, 1096.
 Peneus Beecher, 366.
 Pentaerinus astericus Meek and Hayden, Logan, 3559.
 asteriscus Meek and Hayden, Clark, 892.
 asteriscus Meek and Hayden, Stanton, 5206.

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Genera and species described—Continued.

- Pentacrinus bryani* Gabb, Clark, 892.
caput, Say, 4813.
whitei Clark, Clark, 892.
- Pentagonia Cozzens*, Hall and Clarke, 2261, 2264.
- Pentamerella* Hall, Hall and Clarke, 2261a, 2264.
- Pentamerus* Sowerby, Hall and Clarke, 2261a, 2264.
colletti n. sp., Miller, 3992.
corrugatus n. var., Weller and Davison, 5978.
ducussatus Whiteaves, Calvin, 689.
oblongus Sowerby var. *maquoketa*, Hall and Clarke, 2268.
 var. *subrectus*, Hall and Clarke, 2268.
oblongus Sowerby var., Weller and Davison, 5978.
oblongus var. *bisinuatus*, Whiteaves, 6080.
occidentalis Hall, Whiteaves, 6080.
pes-ovis, Whitfield, 6099.
salinensis Swallow, Keyes, 3062.
- Pentremiridea filosa* Whiteaves (?), Weller, 5988.
milwaukensensis n. sp., Weller, 5988.
- Pentremite*, Say, 4813.
floralis Schloth., Say, 4813.
globosa, Say, 4813.
pyriformis, Say, 4813.
- Pentremites benedicti* n. sp., Rowley, 4677.
conoideus Hall, Keyes, 3061.
elegans, Whitfield, 6099.
elongatus Shumard, Keyes, 3061.
- Pephricaris horripilata* n. sp., Clarke, 959.
- Peplorhina arcata* Cope, Case, 773.
- Percherus* (Dicotyles) antiquus, Marsh, 3681.
- Pergrinella Oehlert*, Hall and Clarke, 2264.
- Periechocrinus* Austin, Wachsmuth and Springer, 5765a.
 howardi (S. A. Miller), Wachsmuth and Springer, 5765a.
 infelix (Winch. and Marcy), Wachsmuth and Springer, 5765a.
 marcouanus (Winch. and Marcy), Wachsmuth and Springer, 5765a.
 necis (Winch. and Marcy), Wachsmuth and Springer, 5765a.
 ornatus (Hall), Wachsmuth and Springer, 5765a.
 speciosus (Hall), Wachsmuth and Springer, 5765a.
 tennesseensis (Hall), Wachsmuth and Springer, 5765a.
 ? *tenuidiscus* (Hall), Wachsmuth and Springer, 5765a.
 uniformis (S. A. Miller), Wachsmuth and Springer, 5765a.
 ? *whitei* (Hall), Wachsmuth and Springer, 5765a.
 whitfieldi (Hall), Wachsmuth and Springer, 5765a.
- Periechocrinus* Austin, Weller, 6002.
 chicagoensis n. sp., Weller, 6002.
 egani (S. A. Miller), Weller, 6002.
 infelix (Winchell and Marcy), Weller, 6002.

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Genera and species described—Continued.

- Periechocrinus marcouanus* (W. and M.), Weller, 6002.
 necis (Winchell and Marcy), Weller, 6002.
 uniformis (S. A. Miller), Weller, 6002.
 whitei, Whitfield, 6098.
- Peripetoceras* n. gen., Hyatt, 2819.
 frieslebeni Geinitz, Hyatt, 2819.
- Periploma* (?) *alta*, Whitfield, 6101.
 butleriana n. sp., Aldrich, 73.
 butleriana, Harris, 2313.
 collardi n. sp., Harris, 2307
 sp., Harris, 2315.
- Periptychus brabensis* Cope, Osborn and Earle, 4191.
 carinidens Cope, Matthew, 3801.
 coarctatus Cope, Matthew, 3801.
 coarctatus Cope, Osborn and Earle, 4191.
 rhabdodon (Cope), Matthew, 3801.
 rhabdodon Cope, Osborn and Earle, 4191.
- Perischodomus* ?? *illinoisensis* Worthen and Miller, Keyes, 3077.
- Perisoonia lesquereuxii* Knowlton, Newberry, 4080.
 spatulata Hollick n. sp., Newberry, 4080.
- Perisphinctes alamitosensis* n. sp., Aguilera, 57.
 cf. *balderus* Oppel, Aguilera, 57.
 colfaxi, Hyatt, 2818.
 colubrinus (Reinecke), Aguilera, 57.
 cf. *colubrinus* (Reinecke), Aguilera, 57.
 dolfusi n. sp., Aguilera, 57.
 felixi n. sp., Aguilera, 57.
 filiplex (?), Hyatt, 2818.
 flexicostatus n. sp., Aguilera, 57.
 lauri n. sp., Aguilera, 57.
 lenki n. sp., Aguilera, 57.
 mazapilensis n. sp., Aguilera, 57.
 monserati n. sp., Aguilera, 57.
 muhlbaehi n. sp., Hyatt, 2818.
 potosinus n. sp., Aguilera, 57.
 pouzinensis Toucas, Aguilera, 57.
 cf. *pouzinensis* Toucas, Aguilera, 57.
 skidegatensis Whiteaves, Whiteaves, 6095a.
 transitorius ? Oppel, Aguilera, 57.
 virgulatiformis n. sp., Hyatt, 2818.
 sp.?, Aguilera, 57.
- Perissodon* Conrad, Whitfield, 6101.
- Perissolax blakei* (Conrad), Stanton, 5198.
 dubia, Whitfield, 6097.
 trivola, Whitfield, 6097.
- Perna cornelliana* n. sp., Harris, 2310.
 torta, Say, 4812.
 torta, Whitfield, 6101.
- Pernopecten cooperensis* (Shumard), Weller, 5994.
 ?? sp., Weller, 6006.
- Peronosporites globosus* n. sp., Simpson, 3570.
 minutus n. sp., Simpson, 3570.
 ramosus n. sp., Simpson, 3570.
- Perpicaria* Dall, 1259.
 perplexa n. sp., Dall, 1259.
- Persea dilleri*, Knowlton, 3235.
 hayana n. sp., Lesquereux, 3470.
 leconteana Lesq., Lesquereux, 3470.

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- Persea schimperii* n. sp., Lesquereux, 3470.
speciosa Heer, Hollick, 2708.
Persoonia lesquereuxii n. sp., Lesquereux, 3470.
Petalocrinus n. gen., Weller and Davison, 5978.
 (?) *major* n. sp., Weller and Davison, 5978.
nufabilis n. sp., Weller and Davison, 5978.
Petalodus alleghaniensis Leidy, Eastman, 1596.
securiger n. sp., Hay, O. P., 2379.
Petalotrypa, Simpson, 4983.
Petersia medicinensis n. sp., Cragin, 1116.
Petigopora, Simpson, 4983.
gregaria Ulrich, James, 2896.
Petrablattina hastata, Seudder, 4898.
Petraster Billings, James, 2896.
wilberanus Meek, James, 2896.
Petricola Lamarck, Dall, 1281.
lapidica Gmelin, Dall, 1281.
(Petricolaria) calvertensis n. sp., Dall, 1281.
carolinensis Conrad, Dall, 1281.
pholadiformis Lamarck, Dall, 1281.
(Rupellaria) harrisi n. sp., Dall, 1281.
typica Jonas, Dall, 1281.
Pexidella Bitner, Hall and Clarke, 2264.
Phacelopora, Simpson, 4983.
portensis Ulrich, Keyes, 3062.
Phacoceras, Hyatt, 2816.
dumbli n. sp., Hay, 2389.
Phacops Emmrich, Grabau, 2086.
correlator n. sp., Clarke, 971.
hudsonicus Hall, Girty, 2086.
logani Hall, Clarke, 971.
rana (Green), Grabau, 2086.
trisulcatus, Foerste, 1835.
Phanopora, Simpson, 4983.
Phanopora Hall, Ulrich, 5537.
incipiens n. sp., Ulrich, 5537.
wilmingtonensis n. sp., Ulrich, 5537.
Phaethonides, Beecher, 354.
Phaethonides Angelin, Grabau, 2086.
gemmaeus Hall and Clarke, Grabau, 2086.
Phalacrocorax macropus, Shufeldt, 1960.
Phalium aldrichi n. sp., Dall, 1259.
globosum n. sp., Dall, 1259.
Phaneropleuron, Case, 766.
Phanerotinus paradoxus Winchell, Keyes, 3062.
paradoxus Win., Weller, 5994, 6006.
Plurella ? *pealei*, Meek, Herrick and Johnson, 2465.
 ? *peali* Meek, Stanton, 5191.
Phascolites formus n. sp., Lesquereux 3470.
Phasianella sp.?, Guppy and Dall, 2214.
Phlegopteris grothiana Heer (?), Newberry, 4080.
Phenacodus primævus Cope, Osborn, 4198, 4204, 4207.
Phialocrinus barydaetylus n. sp., Keyes, 3061.
harii (Miller and Gurley), Keyes, 3061.
magnificus (Miller and Gurley), Keyes, 3061.
stillativus (White), Keyes, 3061.

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- Philine alabamensis* n. sp., Aldrich, 74.
alabamensis Ald., Harris, 2316.
Phillipsastræa billingsi Calvin, Lambe, 3375.
gigas, Calvin, 687.
vernueili Milne-Edwards and Haiman, Lambe, 3375.
Phillipsia cliftonensis Shumard, Smith, 5046.
major Shum., Herrick and Johnson, 2465.
major Shumard, Keyes, 3061.
meramecensis Shumard, Keyes, 3061.
portlockii Meek and Worthen, Keyes, 3061.
(Griffithides) ornata Vogdes, Smith, 5046.
 n. sp., Herrick and Johnson, 2465.
Philonthus abavus n. sp., Seudder, 4900.
horri n. sp., Seudder, 4900.
invelatus n. sp., Seudder, 4900.
marcidulus n. sp., Seudder, 4900.
Phlaeocyon n. gen., Matthew, 3804.
leucosteus n. sp., Matthew, 3804.
leucosteus Matthew, Wortman and Matthew, 6496.
Phlyctalnacanthus telleri, n. sp., Eastman, 1601.
Phonicopterus copei n. sp., Schufeldt, 1960.
Pholadella Hall, Grabau, 2086.
parallela Hall, Clarke, 976.
radiata (Conrad), Grabau, 2086.
Pholadidea Goodall, Dall, 1272.
Pholadomya coloradoensis n. sp., Stanton, 5191.
coloradoensis Stanton, Herrick and Johnson, 2465.
inequiplicata n. sp., Stanton, 5206.
ingens n. sp., Cragin, 1115.
kingi Meek, Stanton, 5206.
knowltoni n. sp., Hill, 2539.
lerchi n. sp., Hill, 2539.
marylandica Conrad, Clark, 906.
mauryi n. sp., Harris, 2310.
multilameata, Hyatt, 2818.
nevadana, Hyatt, 2818.
papyracea, M. and H., Herrick and Johnson, 2465.
papyracea, M. and H., Stanton, 5191.
postextenta n. sp., Cragin, 1115.
ragsdalei n. sp., Cragin, 1118.
robusta n. sp., Logan, 3559.
subventricosa M. and H., Herrick and Johnson, 2465.
(Triplicosta) progressiva n. sp., Cooper, 1072.
Pholas (Linné) Lamarck, Dall, 1272.
alatoidea, Harris, 2313.
alatoideus, Harris, 2315.
ovalis Say, 4813.
 (?) *petrosa* Conrad, Clark, 906.
produeta Conrad, Dall, 1272.
(Thovana) campechiensis Gmelin, Dall, 1272.
memmingeri, Tuomey and Holmes, Dall, 1272.
Pholidocidaris meeki n. sp., Jackson, 2871.
Pholidops Hall, Grabau, 2086.
Pholidops Hall, Hall and Clarke, 2260, 2268.

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- Pholidops calceola* n. sp., Hall and Clarke, 2260, 2268.
greeni n. sp., Miller and Gurley, 4003.
hamiltoni Hall, Grabau, 2086.
linguloides Hall, Grabau, 2086.
patina n. sp., Hall and Clarke, 2260, 2268.
terminalis Hall, Clarke, 971.
trentonensis Hall var. *minor* n. var., Winchell and Schuchert, 6319.
trombetana n. sp., Clarke, 976.
 sp.?, Clarke, 971.
Phombipora rhombifera Hall, Clarke, 971.
Phos albirupina n. sp., Harris, 2305.
fasciolatus n. sp., Guppy and Dall, 2214.
gabbii n. sp., Guppy and Dall, 2214.
galvestonensis n. sp., Harris, 1309.
hilli n. sp., Harris, 2305.
johnsoni n. sp., Vaughan, 5722.
metuloides n. sp., Guppy and Dall, 2214.
 (*Strongylocera*) *chipolanus* n. sp., Guppy and Dall, 2214.
 sp. undet., Dall, 1259.
Phosphorosaurus, Williston, 6245.
Phractopora, Simpson, 4983.
Phragmites aquehongensis n. sp., Hollick, 2691.
cretaceus Lesq., Lesquereux, 3470.
falcata n. sp., Knowlton, 3255.
? latissima n. sp., Knowlton, 3255.
 sp. (?) Newberry, 4083.
Phragmoeceras expansum Win., Weller, 6006.
hector Billings, Whiteaves, 6080.
missouriense n. sp., Miller, 3992.
Phragmodictya Hall, Hall and Clarke, 2269, 2271.
catelliformis Whitfield (sp.), Hall and Clarke, 2269, 2271.
 (?) *crebristriata* Hall, Hall and Clarke, 2269, 2271.
 (?) *lineata* Hall, Hall and Clarke, 2269, 2271.
patelliformis Hall, Hall and Clarke, 2269, 2271.
Phryganea ejecta n. sp., Seudder, 4899.
Phycograptus n. gen., Gurley, 2217.
brachymera n. sp., Gurley, 2217.
Phyllangia florida n. sp., Gane, 1934.
Phyllites, Dawson, 1136.
amissus n. sp., Lesquereux, 3470.
arctica n. sp., Knowlton, 3232.
aristochlaeformis n. sp., Lesquereux, 3470.
carneous Newb., Newberry, 4083.
celatus n. sp., Lesquereux, 3470.
crassifolia n. sp., Knowlton, 3255.
cupanioides, Newb., Newberry, 4083a.
durescens n. sp., Lesquereux, 3470.
ellipticus n. sp., Newberry, 4080.
erosus n. sp., Lesquereux, 3470.
flexuosus n. sp., Knowlton, 3246.
ilicifolius n. sp., Lesquereux, 3470.
lacoie n. sp., Lesquereux, 3470.
laurencianus n. sp., Lesquereux, 3470.
obcordatus Heer, Newberry, 4083.
obscura Hollick n. sp., Newberry, 4080.

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Genera and species described—Continued.

- Phyllites obscurus* n. sp., Knowlton, 3246.
orbicularis n. sp., Newberry, 4082.
oregonianus n. sp., Knowlton, 3262.
perplexus n. sp., Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
stipuleformis n. sp., Lesquereux, 3470.
triloba n. sp., Knowlton, 3264.
vanonæ Heer, Lesquereux, 3470.
vanonæ Heer, Newberry, 4083.
venosus Newb., Newberry, 4083.
undulatus n. sp., Newberry, 4082.
zamlæformis n. sp., Lesquereux, 3470.
 sp., Knowlton, 3262, 3264.
Phyllobius antecessor, Seudder, 4890.
avus, Seudder, 4890.
carcerarius, Seudder, 4890.
Phyllocarida, Clarke, 939.
Phylloeceras Suess, Smith, 5052.
indra (var.), Whiteaves, 6085.
knoxvillensis n. sp., Stanton, 5199.
knoxvillense var., Whiteaves, 6095a.
onöense Stanton, Smith, 5052.
 cf. *velledoe* (Michelin), Aguilera, 57.
Phyllocladus subintegrifolius Lesq., Lesquereux, 3470.
Phyllodictya, Simpson, 4983.
Phyllodictya Ulrich, Ulrich, 5537.
frondosa? Ulrich, Ulrich, 5537.
varia n. sp., Ulrich, 5537.
Phyllonotus morulus Har., Harris, 2316.
Phyllopora, Simpson, 4983.
Phylloporina Ulrich, Ulrich, 5537.
corticeosa Ulrich, Ulrich, 5537.
halli, Ulrich, Ulrich, 5537.
reticulata Hall, Ulrich, 5537.
sublaxa Ulrich, 5537.
Phylloteuthis incertus (nom. prov.), Whiteaves, 6095a.
Phynchosstegium knowltoni, n. sp., Britton, 599.
Phryganea ejecta Seudder, Ami, 87.
Physa ancillaria Say, Baker, 217.
heterostropha Say, Baker, 217.
meigsii n. sp., Dall, 1259.
usitata n. sp., White, 6036.
Physetocrinus M. and W., Wachsmuth and Springer, 5765a.
asper (M. and W.), Wachsmuth and Springer, 5765a.
copei (S. A. Miller), Wachsmuth and Springer, 5765a.
dilatatus (M. and W.), Wachsmuth and Springer, 5765a.
lobatus W. and Sp. (n. sp.), Wachsmuth and Springer, 5765a.
ornatus (Hall), Keyes, 3061.
ornatus (Hall), Wachsmuth and Springer, 5765a.
sampsoni n. sp., Miller and Gurley, 4001.
ventricosus (Hall), Keyes, 3061.
ventricosus (Hall), Wachsmuth and Springer, 5765a.
Physctomya acuminata n. gen. et sp., Ulrich, 5535.
Physospongia Hall, Hall and Clarke, 2269, 2271.

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- Physospongia alternata* Hall, Hall and Clarke, 2269, 2271.
colletti Hall, Hall and Clarke, 2269, 2271.
dawsoni Whitfield (sp.), Hall and Clarke, 2265, 2271.
multibursaria n. sp., Hall and Clarke, 2269, 2271.
- Phyxelis dilapsus*, Scudder, 4890.
eradicatus, Scudder, 4890.
evigoratus, Scudder, 4890.
excissus, Scudder, 4890.
- Picea nigra*, Penhallow, 4336.
- Pileotraypa*, Simpson, 4983.
- Piloceras*, Hyatt, 2820.
newton-winchilli n. sp., Clarke, 953.
- Pinacotrypa*, Simpson, 4983.
- Pinacotrypa marginata* n. sp., Whiteaves, 6074.
- Pinna alamedensis* Yates, Cooper, 1071.
arkansana n. sp., Weller, 5986.
caloosacensis n. sp., Dall, 1272.
carnea Gmelin, Dall, 1272.
comancheana n. sp., Cragin, 1116.
kingi Meek, Logan, 3559.
maxvillensis, Whitfield, 6099.
peracuta Shunard, Girty, 2037.
Keyes, 3062.
petrina, White, Herrick, and Johnson, 2465.
petrina White, Stanton, 5191.
quadrata n. sp., Dall, 1272.
rudis (Linné) Dillwyn, Dall, 1272.
venturensis Yates, Cooper, 1071.
sp., Harris, 2313, 2315.
sp., Logan, 3559.
n. sp., Stanton, 5199.
- Pinnaporina*, Simpson, 4983.
- Pinnatopora multipora* n. sp., Rogers, 4656.
ptiloporoidea n. sp., Rogers, 4656.
pyriformipora n. sp., Rogers, 4656.
- Pinoxylon daeotense* Knowlton n. sp., Ward, 5857.
docatense n. sp., Knowlton, 3261.
- Pinus anthraciticus* n. sp., Dawson, 1434.
gracilistrobis n. sp., Knowlton, 3255.
hambachi n. sp., Kirehner, 3187.
iddingsi n. sp., Knowlton, 3255.
macrolepis n. sp., Knowlton, 3255.
nordenskiöldi Heer ?, Ward, 5857.
premurrayana n. sp., Knowlton, 3255.
qumenstedti Heer, Knowlton, 3264.
susquaensis Dawson, Fontaine, 1850.
wardii n. sp., Knowlton, 3255.
(Cyclopites)nordenskiöldii, Dawson, 1434.
sp., Knowlton, 3246.
sp. ?, Newberry, 4080.
sp., Knowlton, 3262.
- Pisania (Celatocnus) nux* n. sp., Dall, 1259.
(Tritonidea) johnsoni n. sp., Aldrich, 73.
- Pisidium compressum* Prince, Baker, 217.
- Pisocrinus baccula* n. sp., Miller and Gurley, 3998.
benedieti n. sp., Miller, 3992.
campana n. sp., Miller, 3992.
gemmiformis, Miller, 3992.
gorbyi n. sp., Miller, 3992.
milligani n. sp., Miller and Gurley, 3998.
- Pistacia aquehogensis* n. sp., Hollick, 2669.

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- Pistia corrugata* Lx., Knowlton, 3264.
- Pithecanthropus erectus*, Marsh, 3697.
- Pityoxylon aldersoni* n. sp., Knowlton, 3255.
amethystinum n. sp., Knowlton, 3255.
hollicki n. sp., Knowlton, 3250.
pealei n. sp., Knowlton, 3243.
n. sp., Hollick, 2698.
- Placentiocras californicum*, Smith, 5055.
costatus n. sp., Herrick and Johnson, 2465.
fallax n. sp., Aguilera, 57.
pacificum n. sp., Smith, 5055.
placenta Dekay, Logan, 3554.
placenta (Dekay) Stanton, 5191.
syrtalis Mort., var. nov. cumminsi, Cragin, 1115.
- Placoderm*, Claypole, 979, 987.
- Placodus*, Case, 768.
- Placophyllum* n. gen., Simpson, 4984.
- Placunanomia lithobleta* n. sp., Dall, 1272.
plicata Tuomey and Holmes, Dall, 1272.
- Placunopsis carbonaria* Meek and Worthen, Keyes, 3062.
? hilliardensis White, Stanton, 5191.
- Plasimys*, Hall and Clarke, 2260.
- Plagiolophus vancouverensis* n. sp., Woodward, 6440.
- Planera crenata* Newb., Newberry, 4083.
knowltoniana Hollick n. sp., Newberry, 4082.
longifolio Lesq., Newberry, 4083.
myerophylla Newb., Newberry, 4083.
nervosa Newb., Newberry, 4083.
variabilis Newb., Newberry, 4083.
- Planetoceras* n. gen., Hyatt, 2816.
- Planolites corrugatus* n. sp., Walcott, 5815.
superbus n. sp., Walcott, 5815.
- Planophlebia* Scudder, Scudder, 4895.
gigantea, Scudder, 4895.
- Planorhis campanulatus* Say, Baker, 217.
conanti n. sp., Dall, 1259.
distoni n. sp., Dall, 1259.
pabloanus n. sp., Cooper, 1071.
precursoris n. sp., White, 6036.
willcoxii n. sp., Dall, 1259.
- Plasmopora* Milne-Edwards and Haime, 1849, Lambe, 3374.
follis Milne-Edwards and Haime, Lambe, 3374.
petaliformis Lonsdale (sp.), Lambe, 3374.
- Plataninium haydeni* Felix, Knowlton, 3255.
- Platanus appendiculata*, Knowlton, 3235.
aspera Newb., Newberry, 4083.
cissoides n. sp., Lesquereux, 3470.
cissoides Lesquereux ?, Ward, 5856.
guillelmae Goepp, Knowlton, 3255.
haydeni Newb., Newberry, 4083.
latilobi Newb., Newberry, 4083.
montana n. sp., Knowlton, 3255.
newberriana Heer, Lesquereux, 3470.
nobilis, Newb., Newberry, 4083.
obtusiloba Lesq., Lesquereux, 3470.
primæva ? Lesq., Dawson, 1436.
Lesquereux, 3470.
primæva Lesq., Lesquereux, 3470.
grandidentata var., Lesquereux, 3470.

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- Platanus* *primæva integrifolia*, Lesquereux, 3470.
primæva subintegrifolia, Lesquereux, 3470.
raynoldsii Newb., Newberry, 4083.
wardii n. sp., Knowlton, 3264.
Platecarpus, Williston, 6238, 6245, 6249, 6252,
elidastoides, Williston, 6245.
corypheus Cope, Baur, 299.
eorypheus, Williston, 6245.
erassartus, Williston, 6245.
felix, Williston, 6245.
glandiferus, Williston, 6245.
græclis, Williston, 6245.
ietericus, Williston, 6245.
latifrons, Williston, 6245.
latispinis, Williston, 6245.
mudgei, Williston, 6245.
oxyrhinus, Williston, 6245.
planifrons, Williston, 6245.
simus, Williston, 6245.
tectulus, Williston, 6245.
Platidia Costa, Hall and Clarke, 2264.
Platyceeras Conrad, Girty, 2038.
Platyceeras Conrad, Grabau, 2086.
Platyceeras Conrad, Matthew, 3790.
boonvillense n. sp., Miller, 3992.
buculentum Hall, Grabau, 2086.
earinatum Hall, Grabau, 2086.
deflectum n. sp., Grabau, 2092.
 (?) *depressum* n. sp., Ulrich and Seofield, 5541.
erectum Hall, Grabau, 2086.
cf. gebhardi Hall, Clarke, 971.
harti n. sp., Clarke, 976.
hussaki n. sp., Clarke, 976.
indianense n. sp., Miller and Gurley, 4003.
missouriense n. sp., Miller, 3992.
nasutum n. sp., Miller, 3992.
niagarensis, var. *clintonense* n. var., Foerste, 1835.
nodosum Conrad, Clarke, 971.
pettiscense n. sp., Miller, 3992.
primævum Billings, Grabau, 2092.
primordialis Hall?, Walcott, 5816.
radiatum, Matthew, 3790.
squalodens, Whitfield, 6099.
steinmanni n. sp., Clarke, 976.
symbula, Matthew, 3790.
symmetrieum, Grabau, 2086.
symmetrieum, Hall (?), Clarke, 976.
 var. *maccuruense*, n. var., Clarke, 976.
thetis Hall, Grabau, 2086.
transversum, Matthew, 3790.
whitii n. sp., Clarke, 976.
 var. *curua* n. var., Clarke, 976.
wisconsinensis n. sp., Ulrich and Seofield, 5541.
(Orthonychia) *attenuatum* Hall, Grabau 2086.
(Orthonychia) *parvulum* n. sp., Whit-eaves, 6074.
(Platystoma) *niagarensis*, Foerste, 1835.
Platycoenia *jacksonensis* n. sp., Vaughan 5735.

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- Platycrinus* Miller, Grabau, 2086.
Platycrinus Miller, Wachsmuth and Springer, 5765a.
Platycrinus Miller, Weller, 6002.
aeclivus S. A. Miller, Wachsmuth and Springer, 5765a.
æqualis Hall, Keyes, 3061.—
æqualis Hall, Wachsmuth and Springer, 5765a.
æquitermus S. A. Miller, Wachsmuth and Springer, 5765a.
agassizi W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
alabamensis n. sp., Miller, 3992.
allophylus (Miller), Keyes, 3061.
allophylus S. A. Miller, Wachsmuth and Springer, 5765a.
americanus O. and Sh., Wachsmuth and Springer, 5765a.
americanus Owen and Shumard, Keyes, 3061.
asper M. and W., Wachsmuth and Springer, 5765a.
bonoensis White, Wachsmuth and Springer, 5765a.
boonvillensis S. A. Miller, Wachsmuth and Springer, 5765a.
bozemanensis n. sp., Miller and Gurley, 4003.
brevinodus Hall, Wachsmuth and Springer, 5765a.
bridgerensis n. sp., Miller and Gurley, 4003.
britisi S. A. Miller, Wachsmuth and Springer, 5765a.
burlingtonensis O. and Shum., Wachsmuth and Springer, 5765a.
burlingtonensis Owen and Shumard Keyes, 3061.
caducus n. sp., Miller, 3995.
canaliculatus Hall, Wachsmuth and Springer, 5765a.
casula n. sp., Miller and Gurley, 2998.
cavus Hall, Wachsmuth and Springer, 5765a.
ehouteauensis n. sp., Miller, 3995.
elinatus n. sp., Miller and Gurley, 3998.
elytis, Whitfield, 6098.
colletti n. sp., Miller, 3995.
concinulus n. sp., Miller and Gurley, 4000.
contritus Hall and Whitf., Wachsmuth and Springer, 5765a.
corbuliformis Rowley and Hare, Wachsmuth and Springer, 5765a.
cortina n. sp., Miller and Gurley, 3997e.
davisi W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
discoideus O. and Shum., Wachsmuth and Springer, 5765a.
discoideus Owen and Shumard, Keyes, 3061.
douglassi n. sp., Miller and Gurley, 4001.
 (?) *dubius* n. sp., Weller, 6002.
elegans, Whitfield, 6098.

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- Platycrinus eminus Hall, Wachsmuth and Springer, 5765a.
 eriensis Hall, Grabau 2086.
 eriensis Hall, Wachsmuth and Springer, 5765a.
 excavatus Hall, Wachsmuth and Springer, 5765a.
 excavatus, Whitfield, 6098.
 formosus n. sp., Miller and Gurley, 3998.
 formosus, var. approximatus n. var., Miller and Gurley, 4001.
 geometricus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 germanus n. sp., Miller and Gurley, 3998.
 glyptus Hall, Wachsmuth and Springer, 5765a.
 gorbyi S. A. Miller, Wachsmuth and Springer, 5765a.
 graphicus Hall and Whitf., Wachsmuth and Springer, 5765a.
 halli Shumard, Keyes, 3061.
 halli Shum., Wachsmuth and Springer, 5765a.
 hemisphericus M. and W., Wachsmuth and Springer, 5765a.
 hodgsoni n. sp., Miller and Gurley, 3999.
 huntsvillae Troost MS., Wachsmuth and Springer, 5765a.
 illinoisensis n. sp., Miller and Gurley, 3999.
 incomptus White, Wachsmuth and Springer, 5765a.
 insolens Rowley and Hare, Wachsmuth and Springer, 5765a.
 lodensis Hall and Whitf., Wachsmuth and Springer, 5765a.
 missouriensis n. sp., Miller and Gurley, 3998.
 modestus n. sp., Miller and Gurley, 3998.
 notensis M. and W., Wachsmuth and Springer, 5765a.
 nodo-striatus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 ollicula S. A. Miller, Wachsmuth and Springer, 5765a.
 ornigranulus McChesney, Wachsmuth and Springer, 5765a.
 parvinodus Hall, Wachsmuth and Springer, 5765a.
 peculiaris W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 pettitsensis n. sp., Miller and Gurley, 3998.
 pileiformis, Hall, Keyes, 3061.
 pileiformis Hall, Wachsmuth and Springer, 5765a.
 pisum Rowley and Hare, Wachsmuth and Springer, 5765a.
 planus O. and Sh., Wachsmuth and Springer, 5765a.
 pocilliformis Hall, Wachsmuth and Springer, 5765a.
 pratenni Worthen, Keyes, 3061.
 pratenni Worthen, Wachsmuth and Springer, 5765a.
 quinquenodus White, Wachsmuth and Springer, 5765a.

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- Platycrinus regalis Hall, Wachsmuth and Springer, 5765a.
 saffordi Hall, Wachsmuth and Springer, 5765a.
 saffordi Troost, Keyes, 3061.
 sampsoni Miller, Keyes 3061.
 sampsoni S. A. Miller, Wachsmuth and Springer, 5765a.
 saræ Hall, Wachsmuth and Springer, 5765a.
 scobina M. and W., Wachsmuth and Springer, 5765a.
 sculptus Hall, Keyes, 3061.
 sculptus Hall, Wachsmuth and Springer, 5765a.
 sharonensis n. sp., Miller and Gurley, 4003.
 spinifer var. elongatus W. and Sp. (nov. var.), Wachsmuth and Springer, 5765a.
 spinifer W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
 striobrachiatus, Whitfield, 6098.
 subscitulus n. sp., Miller and Gurley, 4000.
 subspinosus Hall, Wachsmuth and Springer, 5765a.
 subspinulosus Hall, Wachsmuth and Springer, 5765a.
 sulciferus n. sp., Miller and Gurley, 3998.
 symmetricus Wachsmuth and Springer, Girty, 2038.
 symmetricus W. and Sp., Wachsmuth and Springer, 5765a.
 tenuibrachiatus M. and W., Wachsmuth and Springer, 5765a.
 tigurium n. sp., Miller and Gurley, 3998.
 truncatulus Hall, Wachsmuth and Springer, 5765a.
 vascellum n. sp., Miller and Gurley, 3997d.
 verrucosus White, Wachsmuth and Springer, 5765a.
 wortheni Hall, Wachsmuth and Springer, 5765a.
 yandelli O. and Sh. (typical form), Wachsmuth and Springer, 5765a.
 yandelli, var. perasper Shum., Wachsmuth and Springer, 5765a.
 Platygonus, Williston, 6227.
 bicalcaratus Cope, Cope, 1087.
 rex n. sp., Marsh, 3690.
 Platymetopus bicornis Ulrich (sp.), 1892, Clarke, 952.
 cucullus Meek and Worthen (sp.), 1865, Clarke, 952.
 robbinsi Ulrich (sp.), 1892, Clarke, 952.
 Platynus Bonelli, Scudder, 4896.
 casus, Scudder, 4896.
 desuetus, Scudder, 4896.
 dilapidatus, Scudder, 4896, 4900.
 dissipatus, Scudder, 4896.
 halli, Scudder, 4896.
 hartii, Scudder, 4896.
 hindei, Scudder, 4896.
 tartareus n. sp., Scudder, 4900.

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- Platyodon Conrad, Dall, 1272.
 Platyostoma Conrad, Grabau, 2086.
 broadheadi n. sp., Miller, 3992.
 lineata Conrad, Grabau, 2086.
 var. *emarginata* n. var. Grabau, 2086.
 minutum n. sp., Girty, 2086.
 tumidum n. sp., Whiteaves, 6074.
 Platyschisma barrisi (Win.), Weller, 6006.
 depressa n. sp., Weller, 6006.
 missouriensis n. sp., Weller, 5994.
 Platysomus lacovianus n. sp., Cope, 1076.
 palmaris n. sp., Cope, 1076.
 Platystegos loricatum n. sp., Dawson, J. W., 1446.
 Platystethus archetypus n. sp., Scudder, 4900.
 carcareus n. sp., Scudder, 4900.
 Platystrophia King, Hall and Clarke, 2260.
 lynx (Eichwald), Keyes, 3062.
 Platytrachus claibornensis de Gregorio, Vaughan, 5735.
 goldfussi (Lea), Vaughan, 5735.
 stokesi (Lea), Vaughan, 5735.
 Platxytrodus striatus, Hay, 2381.
 Plectambonites Pander, Hall and Clarke, 2260.
 Plectambonites claibornensis de Gregorio, Vaughan, 5735.
 gibbosa, Winchell and Schuchert, 6298.
 gibbosa W. and S., Winchell and Schuchert, 6298.
 producta n. sp., Hall and Clarke, 2261a, 2263.
 producta, Hall and Clarke, 2268.
 rhomboidalis (Wilckens), Keyes, 3062.
 sericea Sowerby sp., Winchell and Schuchert, 6319.
 transversalis, Foerste, 1835.
 Plectoceras, Hyatt, 2819.
 bickmoreanus sp., Whitfield, Hyatt, 2819.
 obscurum n. sp., Hyatt, 2819.
 Plectoderma scitulum Hinde, Rauff, 4548.
 Plectonotus derbyi n. sp., Clarke, 976.
 ? *salteri* n. sp., Clarke, 976.
 Plectorthys, Hall and Clarke, 2260.
 Pleisiochelys belviderensis n. sp., Cragin, 1119.
 Plesiosaurus, Case, 768.
 gouldii n. sp., Williston, 4180.
 mudgei n. sp., Cragin, 1119.
 plicatus, Marsh, 3695.
 shirleyensis n. sp., Knight, 3216.
 Plethocardia n. gen., Ulrich, 5534.
 Plethocardia Ulrich, Ulrich, 5539.
 suberecta n. sp., Ulrich, 5534, 5539.
 umbonata n. sp., Ulrich, 5534, 5539.
 Plethomytilus Hall, Grabau, 2086.
 oviformis (Conrad), Grabau, 2086.
 Plethospira n. gen., Ulrich and Scofield, 5541.
 semele Hall, Ulrich and Scofield, 5541.
 socialis n. sp., Girty, 2035.
 striata n. sp., Ulrich and Scofield, 5541.
 ? n. sp., Girty, 2037.
 Pleuracanthus, Case, 766.
 (*Didymodus*) *compressus* Newb., Case, 773.

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- Pleuracanthus (Orthacanthus) *gracilis* Newb., Case, 773.
 (Orthacanthus) *quadriseriatus* Cope, Case, 773.
 Pleurocælus, Marsh, 370.
 Pleurocystites mercerensis n. sp., Miller and Gurley, 3997d.
 Pleurodictyum, Girty, 2032.
 Pleurodictyum Goldfuss, Grabau, 2086.
 lenticulare, Beecher, 352.
 stylopora (Eaton), Grabau, 2086.
 Pleurodon S. Wood, Dall, 1272.
 woodii n. sp., Dall, 1272.
 Pleuromia concentrica n. sp., Hyatt, 2818.
 (?) *henselli* n. sp., Hill, 2539.
 inconstans n. sp., Aguilera, 57.
 papræa var. *carlottensis*, Whiteaves, 6095a.
 subcompressa Meek, Logan, 3559.
 subcompressa Meek, Stanton, 5206.
 Pleuromytilus, Hyatt, 2819.
 Pleuronotos decewi (Billings) Hall?, Girty, 2039.
 Pleurophorus oblongus Meek, Keyes, 3062.
 taffi n. sp., Girty, 2037.
 Pleurostomella subnodosa Reuss, Woodward and Thomas, 6433.
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 Pleurotoma albida Perry, Dall, 1279.
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 ? *hitzi* Meek, Herrick and Johnson, 2465.
 hitzi Meek, Stanton, 5191.
 huppertzi n. sp., Harris, 2307.
 var. *penrosi* n. var., Harris, 2307.
 huppertzi var., Harris, 2315.
 insignifica Heilp., Harris, 2307.
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 langdoni Heilp., Harris, 2316.
 leoncola n. sp., Harris, 2316.
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 moniliata Heilp., Harris, 2316.
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 regularicostata n. sp., Whitfield, 6097.
 roscoeii n. sp., Harris, 2316.
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- Pleurotoma servatoidea* n. sp., Aldrich, 73.
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 (?) *siphus* Ald., Harris, 2316.
succulitiformis n. sp., Whitfield, 6097.
terebalis Ald. var., Harris, 2316.
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tombigbeensis Ald., Harris, 2316.
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 (Ancistrosyrinx) *columbaria* Ald., Harris, 2311.
 (Bela) *rebecca* n. sp., Harris, 2307.
 (Borsonia) *plenta* n. sp., Harris, 2307.
 (Clathurella) *fanna* n. sp., Harris, 2307.
 (Cythara) *galvestonensis* n. sp., Harris, 2309.
 (?) *leania* n. sp., Harris, 2310, 2311.
 (Drillia) *dumblei* n. sp., Harris, 2307.
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 (Drillia) *pseudoburnea*, Whitfield, 6097.
 (Drillia) *quadricentennialis* n. sp., Harris, 2309.
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 (Euchelodon) *reticulatoides* n. sp., Harris, 2307.
 (Mangilla) *infans*, Harris, 2307, 2316.
 (Pleurotomella) *anacona* n. sp., Harris, 2307.
 (Pleurotomella?) *anacona*, Harris, 2310.
 (Sureula) *adeona*, Harris, 2310.
 (Sureula?) *altispira* n. sp., Whitfield, 6097.
 (Sureula) *gabbi* Con., Harris, 2307.
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 (Taranis) *finexa* n. sp., Harris, 2307.
 sp., Harris, 2310.
- Pleurotomaria* de France, Grabau, 2086
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 brazoensis Shumard, Keyes, 3062.
 brittoni n. sp., Whitfield, 6097.
 broadheadi White, Keyes, 3062.
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 carbonaria Norwood and Pratten, Keyes, 3062.
 coniformis Worthen, Keyes, 3062.
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 floridensis n. sp., Cleland, 1012.
 galtensis Billings, Whiteaves, 6086.
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 harii n. sp., Miller, 3992.
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- Pleurotomaria* *huronensis*, Lane, 3400.
 illinoisensis Worthen, Keyes, 3062.
 infranodosa n. sp., Whiteaves, 6074.
 isaacsi Hall and Whitfield (?) Girty, 2038.
 itys Hall, Grabau, 2086.
 leus (Hall), Keyes, 3062.
 lerehi n. sp., Vaughn, 5722.
 lucinia Hall, Grabau, 2086.
 ludoviciana n. sp., Vaughan, 5722.
 maelenta n. sp., Cragin, 1115.
 (?) *margaritoides* n. sp., Whiteaves, 6087.
 monilifera (White), Keyes, 3062.
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 perhumerosa Meek, Keyes, 3062.
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 providencis, Broadhead, 605.
 regulata Hall, Grabau, 2086.
 robusta n. sp., Cragin, 1115.
 rochana, Hartt and Rathbun, Clarke, 976.
 sancti-mauritii n. sp., Vaughan, 5722.
 sedaliensis, n. sp., Miller, 3992.
 semele, Whitfield, 6102.
 shaleri n. sp., Vaughan, 5722.
 speciosa Meek and Worthen, Keyes, 3062.
 spenceri n. sp., Whiteaves, 6074.
 spharulata Conrad, Keyes, 3062.
 stantoni n. sp., Vaughan, 5722.
 stokesiana n. sp., Whiteaves, 6087.
 subcarbonaria n. sp., Keyes, 3062.
 tabulata (Conrad), Keyes, 3062.
 tintonensis n. sp., Whitfield, 6097.
 townsendii n. sp., Whiteaves, 6080.
 turbiniiformis Meek and Worthen, Keyes, 3062.
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 valvatiiformis Meek and Worthen, Keyes, 3062.
 valaris n. sp., Whiteaves, 6080.
 ? *viola* Billings, Whiteaves, 6080.
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 (?) sp., Girty, 2038.
 sp., Harris, 2310.
 sp., Stanton, 5199.
- Pleurotomella* *sigma* n. sp., Harris, 2316.
 veatchi n. sp., Harris, 2315.
 whitfieldi, Harris, 2310.
- Pleurotrema* n. gen., Whitfield, 6097.
 solariformis n. sp., Whitfield, 6097.
- Planuchenia*, Cope, 1079.
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 spatula Cope, Wortman, 6493.
- Plicatul* Lamarek, Dall, 1272.
 arenaria Meek, Herrick and Johnson, 2465.
 arenaria Meek, Stanton, 5191.
 densata Conrad, Dall, 1272.
 densata, Whitfield, 6101.
 dentonensis n. sp., Cragin, 1115.
 filamentosa Conrad, Dall, 1272.

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- Plicatula filamentosa* var. *concentrica*, Dall, 1272.
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gibbosa Lamarck, Dall, 1272.
hydrothea White, Herrick and Johnson, 2465.
hydrothea White, Stanton, 5191.
incongrua Con., Cragin, 1115.
marginata, Say, 4813.
marginata Say, Dall, 1272.
ostreiformis n. sp., Stanton, 5798.
senescens n. sp., Cragin, 1116.
senescens, Stanton, 5197.
 (?) Harris, 2310.
Plioplatecarpus, Williston, 6245.
Plochionus lesquereuxi n. sp., Seudder, 4900.
Plumulites Barrande, Matthew, 3770.
 manuelensis n. sp., Matthew, 3770.
 newberryi, Whitfield, 6099.
Poacites sp., Hollick, 2696.
Podazamites acutifolius Font.?, Fontaine, 1846.
 angustifolius (Eichw.) Schimp., Lesquereux, 3470.
 lanceolatus (L. and H.) Brongn., Lesquereux, 3470.
 stenopus n. sp., Lesquereux, 3470.
Podoerates vancouverensis n. sp., Whiteaves, 6085.
Pododesmus rudis Broderip, Dall, 1272.
 scopelus n. sp., Dall, 1272.
 (*Monia*) *macrochisma* Deshayes, Dall, 1272.
Podogonium americanum Lx., Knowlton, 3264.
Podozamites acuminatus Hollick n. sp., Newberry, 4080.
 acutifolius Font.?, Fontaine, 1847.
 angustifolius (Eichw.) Schimp, Newberry, 4080.
 ? *carolinensis* Fontaine n. sp., Ward, 5857.
distens (Presl.) Friedrich Braun?, Ward, 5857.
 emmonsii Newberry, Ward, 5857.
 lanceolatus (Lindley and Hutton) Friedrich Braun, Ward, 5857.
 lanceolatus latifolius (Brongniart) Heer Ward, 5857.
 longifolius Emmons, Ward, 5857.
 marginatus Heer (?), Newberry, 4080.
 tenuistriatus (Rogers) Fontaine, Ward 5857.
Podurites saltator n. sp., Matthew, 3768.
Poebrotherium Leidy, Wortman, 6493.
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 wilsoni Leidy, Wortman, 6493.
Pogonodon (?) sp., Williston, 6228.
Polygnathus Hinde, Grabau, 2086.
 crassus Hinde, Grabau, 2086.
 eristatus Hinde, Grabau, 2086.
 dubius Hinde, Grabau, 2086.
 linguiformis Hinde, Grabau, 2086.
 nasutus Hinde, Grabau, 2086.
 palmaris Hinde, Grabau, 2086.
 pennatus Hinde, Grabau, 2086.

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- Polygnathus princeps* Hinde, Grabau, 2086.
 punctatus Hinde, Grabau, 2086.
 solidus Hinde, Grabau, 2086.
 truncatus Hinde, Grabau, 2086.
 tuberculatus Hinde, Grabau, 2086.
 (?) *simplex* Hinde, Grabau, 2086.
Polygraphus wortheni, Seudder, 4890.
Polygyra calloosaensis n. sp., Johnson, 2910.
Polymastodon attenuatus Cope, Osborn and Earle, 4191.
 fissidens Cope, Osborn and Earle, 4191.
 selenodus n. sp., Osborn and Earle, 4191.
 taoënsis Cope, Osborn and Earle, 4191.
Polymorphina amygdaloides, Bagge, 148.
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 complanata, Bagge, 148.
 compressa (d'Orbigny), Bagge, 148, 150.
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 emersoni n. sp., Bagge, 150.
 gibba (d'Orbigny), Bagge, 148, 150.
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 laetea elongata var. Brady, Bagge, 150.
 oblonga d'Orbigny, Bagge, 150.
 orbignii (Zborzewski), Bagge, 150.
 praelonga, Bagge, 148.
 problema (d'Orbigny), Bagge, 150.
 regularis, Bagge, 150.
Polynices (*Amauropsis*) *burnsii* n. sp., Dall, 1259.
 (*Lunatia*) *heros* Say, Dall, 1259.
 internus Say, Dall, 1259.
Polypheopsis melanoides, Whitfield, 6099.
Polypora McCoy, Grabau, 2086.
Polypora Simpson, 4983.
 aspera n. sp., Rogers, 4656.
 coyotensis n. sp., Herrick and Johnson, 2465.
 coyotensis n. sp., Herrick and Bendrat, 2464.
 elliptica n. sp., Rogers, 4656.
 flexuosa n. sp., Rogers, 4656.
 (*porosa*? var.) *manitobensis*, Whiteaves, 6074.
 multiplex Hall, Grabau, 2086.
 separata Hall (?), Clarke, 971.
 tenuiramus n. sp., Rogers, 4656.
 triangularis n. sp., Rogers, 4656.
 varsouviensis (?), Whitfield, 6099.
 sp. indes., Clarke, 971.
Polyporella cf. *compressa* Hall, Clarke, 971.
Polypsephis, Hay, 2381.
Polystomella striatopunctata, Bagge, 148.
Polytropis De Koninck, Whiteaves, 6080.
 durhamensis n. sp., Whiteaves, 6080.
 parvulus n. sp., Whiteaves, 6080.
 sulcatus Hall, Whiteaves, 6080.
Pomatospirella Bittner, Hall and Clarke, 2264.
Pontocypris pyriformis n. sp., Jones, T. R., 2935.
Populites cyclophyllus? Heer, Lesquereux, 3472.
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- Populites lancestriensis*, Lesq., Lesquereux, 3472.
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probsalamifera n. sp., Dawson, 1436.
sternbergii n. sp., Lesquereux, 3470.
winchelli n. sp., Lesquereux, 3472.
Populus acerfolia Newb., Newberry, 4083.
 (?) *apiculata* n. sp., Newberry, 4080.
auriculata n. sp., Ward, 517.
balsaminoides Goeppert, Dawson, 1448.
berggreni Heer, Lesquereux, 3470, 3472.
eordata Newb., Newberry, 4083.
 (?) *eordifolia* Newb., Newberry, 4083.
cuneata Newb., Newberry, 4083.
cyclophylla Heer, Newberry, 4083.
daphnogenoides Ward, Knowlton, 3255.
 (?) *debeyana* Heer, Newberry, 4083.
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elongata Newb., Newberry, 4083.
eotremuloides n. sp., Knowlton, 3246.
flabellum Newb., Newberry, 4083.
genetrix Newb., Newberry, 4083.
glundulifera Heer, Knowlton, 3255.
harkeriana n. sp., Lesquereux, 3470.
harkeriana Lesq. (?), Hollick, 2696.
hyperborea, Heer, Lesquereux, 3470.
kansaseana n. sp., Lesquereux, 3470.
lindgreni n. sp., Knowlton, 3246.
litigiosa Heer, Newberry, 4083.
meedsii n. sp., Knowlton, 3224.
melamarioides Lx., Knowlton, 3264.
microphylla Newb., Newberry, 4083.
mutabilis ovalis? Heer, Knowlton, 3264.
nebrascensis Newb., Newberry, 4083.
nervosa Newb., Newberry, 4083.
obovata n. sp., Knowlton, 3264.
occidentalis n. sp., Knowlton, 3246.
polymorpha Newb., Newberry, 4083.
potomacensis n. sp., Ward, 5846.
problematica n. sp., Knowlton, 3222.
pyrifolia n. sp., Kirchner, 3187.
rhomboidea Lesq., Newberry, 4083.
rotundifolia Newberry, Dawson, 1448.
rotundifolia Newb., Newberry, 4083.
smilacifolia Newb., Newberry, 4083.
speciosa Ward, Knowlton, 3255.
stygia Heer, Lesquereux, 3470.
 (?) *vivaria* n. sp., Knowlton, 3255.
wardii n. sp., Knowlton, 3264.
xantholithensis n. sp., Knowlton, 3255.
zaddachi, Knowlton, 3262.
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Porambonites Pander, Hall and Clarke, 261a, 2264.
Porcella rectinoda Win., Weller, 6006.
Porcellina crassinoda W. & W., Weller, 6006.
manitobensis, (nom. prov.), Whiteaves, 6074.
nodoso Hall, Keyes, 3062.
obliquinoda White, Weller, 6006.
 cf., *rectinoda* Win., Weller, 5994.
Porites ramosa (Lonsdale), Vaughan, 5735.
reussiana Duncan, Vaughan, 6731.
Poroblattina complexinervis, Scudder, 4895.

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- Poroblattina fossa*, Scudder, 4898.
gratiosa, Scudder, 4898.
longinqua, Scudder, 4898.
ohioensis, Scudder, 4898.
Poroerinus kentuckiensis n. sp., Miller and Gurley, 3997e.
Poroeystis n. gen., Cragin, 1115.
pruniformis n. sp., Cragin, 1115.
pruniformis Cragin, Rauff, 4550.
Portheus Cope, Crook, 1147.
lowii n. sp., Stewart, 5237.
Posidonomya? *ambigua* Win., Weller, 6006.
hsallensis n. sp., Miller and Gurley, 4002.
 ? *spertennis* n. sp., Beede, 394.
recurva n. sp., Beede, 394.
Potamides carbonicola n. sp., Cooper, 1071.
 ? *davisiana* n. sp., Cooper, 1071.
fulvarupis n. sp., Harris, 2316.
hillsboroensis Heilprin, Dall, 1259.
sealatus Heilprin, Dall, 1259.
 (*Lamparella*) *transecta* Dall, Dall, 1259.
 (*Pyrazisinus*) *acutus* n. sp., Dall, 1259.
Potamocypris affinis n. sp., Jones, 2934.
uniusulcata, Jones, 2934.
Potamogeton pectinatus, Penhallow, 4336.
pusillus, Penhallow, 4336.
Poterioceras apertum Whiteaves 1889, Clarke, 953.
gracile Whiteaves, Whiteaves, 6087.
jerseyense n. sp., Miller and Gurley, 4002.
missouriense n. sp., Miller, 3995.
nobile Whiteaves, Whiteaves, 6087.
Poteriocrinus agnatus n. sp., Miller, 3992.
albersi n. sp., Miller and Gurley, 4000.
altonensis n. sp., Miller and Gurley, 3998.
amoenus n. sp., Miller, 3992.
arcanus n. sp., Miller and Gurley, 3991.
arrectarius n. sp., Miller and Gurley, 4000.
blairi n. sp., Miller and Gurley, 3998.
boonvillensis n. sp., Miller, 3992.
bozemanensis n. sp., Miller and Gurley, 4001.
broadheadi n. sp., Miller and Gurley, 3998.
cantonensis n. sp., Miller and Gurley, 3991.
circumtextus n. sp., Miller and Gurley, 3997c.
eoryphæus n. sp., Miller, 3992.
crawfordsvillensis n. sp., Miller and Gurley, 3991.
disparilis n. sp., Miller and Gurley, 3991.
douglassi n. sp., Miller and Gurley, 4001.
granuliferus n. sp., Miller and Gurley, 3991.
granilineus n. sp., Miller and Gurley, 3991.
graphicus n. sp., Miller and Gurley, 3991.
hammondi n. sp., Miller and Gurley, 3997e.
labyrinthicus S. A. Miller, Miller and Gurley, 4000.
lautus n. sp., Miller and Gurley, 4000.
maecabei n. sp., Miller and Gurley, 3997e.
 var. *decrepitis* n. sp., Miller and Gurley, 3997e.
neglectus n. sp., Miller and Gurley, 4000.
pulaskiensis n. sp., Miller and Gurley, 3999.
sampsoni n. sp., Miller and Gurley, 3998.

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- Potriocrinus scopæ Miller and Gurley, Miller and Gurley, 3997c.
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 verus n. sp., Miller and Gurley, 3991.
 (Scaphiocrinus) carinatus, Whitfield, 6098.
 Potoceras dubium n. sp., Hyatt, 2819.
 Prasopora, Simpson, 4983.
 Prasopora Nicholson and Ethridge, jr., Ulrich, 5537.
 conoidea Ulrich, Ulrich, 5537.
 contigua Ulrich, Ulrich, 5537.
 insularis n. sp., Ulrich, 5537.
 lenticularis n. sp., Ulrich, 5537.
 lycoperdon, vanuxem var., selwyni, n. var., Ami, 79.
 oculata Foord, Ulrich, 5537.
 selwyni Nicholson, Ulrich, 5537.
 simulatrix Ulrich, Ulrich, 5537.
 orientalis n. var., Ulrich, 5537.
 Precissites wardii n. gen. et sp., Knowlton, 3231.
 Primicorallina trentonensis n. sp., Whitfield, 6100.
 Primitia Jones and Hall, Grabau, 2086.
 Primitia Jones and Hall, Ulrich, 5540.
 acadica, Matthew, 3770.
 aurora n. sp., Matthew, 3751, 3761.
 celestia n. sp., Ulrich, 5540.
 duplicata n. sp., Ulrich, 5540.
 ? lasiformis n. sp., Matthew, 3761.
 gibbera n. sp., Ulrich, 5540.
 mammata n. sp., Ulrich, 5540.
 micula n. sp., Ulrich, 5540.
 minuta, Eichwald, 1854, Clarke, 976.
 minutissima n. sp., Ulrich, 5540.
 oculata n. sp., Matthew, 3761.
 pyriformis n. sp., Matthew, 3781.
 saneti pauli n. sp., Ulrich, 5540.
 semniculum Jones, Grabau, 2086.
 tumidula n. sp., Ulrich, 5540.
 uphami n. sp., Ulrich, 5540.
 Primitiella n. gen., Ulrich, 5540.
 constricta n. sp., Ulrich, 5540.
 fillmorensis n. sp., Ulrich, 5540.
 limbata n. sp., Ulrich, 5540.
 simulans n. sp., Ulrich, 5540.
 unicornis Ulrich, Ulrich, 5540.
 Primitiopsis Jones, Grabau, 2086.
 punctulifera (Hall), Grabau, 2086.
 Prionastrea vaughani, n. sp., Gregory, 2171.
 Prioniodus Pander, Grabau, 2086.
 abbreviatus Hinde, Grabau, 2086.
 acicularis Hinde, Grabau, 2086.
 (?) alatus Hinde, Grabau, 2086.
 angulatus Hinde, Grabau, 2086.
 armatus Hinde, Girty, 2086.
 armatus, Hinde, Grabau, 2086.
 clavatus Hinde, Grabau, 2086.
 erraticus, Hinde, Grabau, 2086.
 panderi Hinde, Grabau, 2086.
 spicatus Hinde, Grabau, 2086.
 Prionocyclus hyattii Stanton, Logan, 3554.
 lævianus White, Logan, 3554.
 macombi Meek, Logan, 3554.

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- Prionocyclus macombi Meek, Stanton, 5191.
 woolgari Mantell, Herrick and Johnson, 2465.
 woolgari Mantell, Logan, 3554.
 wyomingensis Meek, Logan, 3554.
 wyomingensis Meek, Stanton, 5191.
 Prionomerus irvingii, Scudder, 4890.
 Prionotropis hyattii n. sp., Stanton, 5191.
 lævianus (White), Stanton, 5191.
 woolgari Meek, Logan, 3555.
 woolgari (Mantell), Stanton, 5191.
 Prismatophyllum, n. gen., Simpson, 4984.
 Prismodietya n. gen., Hall and Clarke, 2269, 2270.
 allegania n. sp., Hall and Clarke, 2269, 2270.
 amicitiæ n. sp., Hall and Clarke, 2269, 2270.
 aulophia n. sp., Hall and Clarke, 2269, 2270.
 baculum Hall (sp.), Hall and Clarke, 2269, 2270.
 banano n. sp., Hall and Clarke, 2269, 2270.
 cercidea n. sp., Hall and Clarke, 2269, 2270.
 ? choanæ n. sp., Hall and Clarke, 2269, 2270.
 cithara n. sp., Hall and Clarke, 2269, 2270.
 conradi Hall (sp.), Hall and Clarke, 2269, 2270.
 corynia n. sp., Hall and Clarke, 2269, 2270.
 flitextilis Hall (sp.), Hall and Clarke, 2269, 2270.
 nartheccia n. sp., Hall and Clarke, 2269, 2270.
 palæa n. sp., Hall and Clarke, 2269, 2270.
 parallela Hall (sp.), Hall and Clarke, 2269, 2270.
 polyhedra n. sp., Hall and Clarke, 2269, 2271.
 prismatica Hall (sp.), Hall and Clarke, 2269, 2270.
 ptionia n. sp., Hall and Clarke, 2269, 2270.
 spectabilis n. sp., Hall and Clarke, 2269, 2270.
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 Prismopora, Simpson, 4983.
 Pritonema gracile Hinde, Rauff, 4548.
 Probeloceras n. gen., Clarke, 960.
 lutheri Clarke, 1885, Clarke, 960.
 Proboscidea Oehlert, Hall and Clarke, 2260.
 Proboscina Simpson, 4983.
 Proboscina Audouin, Ulrich, 5537.
 frondosa Nicholson, Ulrich, 5537.
 tumulos n. sp., Ulrich, 5537.
 Procamelus Leidy, Leidy, 3447.
 Procamelus Leidy, Wortman, 6493.
 altus n. sp., Marsh, 3690.
 gracilis Leidy, Wortman, 6493.
 laeustris n. sp., Douglas, 6540.
 leptognathus Cope n. sp., Cope, 1087.
 madisonius n. sp., Douglas, 6540.
 occidentalis Leidy, Wortman, 6493.
 robustus Leidy, Wortman, 6493.

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- Procas verberatus*, Seudder, 4890.
vinculatus, Seudder, 4890.
- Procnodictis vulpiceps* n. sp., Wortman and Matthew, 6496.
- Prodaphaenus scotti* n. gen. and n. sp., Wortman and Matthew, 6496.
- Productella Hall*, Grabau, 2086.
- Productella Hall*, Hall and Clarke, 2260.
alifera n. sp., Girty, 2038.
cooperensis Swallow, Girty, 2038.
marquessi n. sp., Rowley, 4674.
navicella Hall, Grabau, 2086.
nummularis (Win.), Weller, 6006.
pyxidata (Hall), Keyes, 3062.
semiglobosa Nettelroth, Girty, 2039.
spinulicosta Hall, Grabau, 2086.
subalata Hall?, Girty, 2039.
subalata var., Girty, 2039.
 sp., Girty, 2039.
- Productus Sowerby*, Hall and Clarke, 2260.
blairi n. sp., Miller, 3992.
burlingtonensis Hall?, Girty, 2037.
cestricnsis Worthen, Weller, 5986.
cherokeensis n. sp., Drake, 1539.
cooperensis Swall., Weller, 6006.
cora d'Orb., Herrick and Bendrat, 2464.
cora d'Orbigny, Keyes, 3062.
costatus Sowerby, Keyes, 3062.
elegans, Whitfield, 6099.
gallatinensis n. sp., Girty, 2038.
laevicosta White, Girty, 2038.
laevicostus White, Keyes, 3062.
laevicostus White, Weller, 6006.
longispinus Sowerby, Keyes, 3062.
magnus Meek and Worthen, Keyes, 3062.
nebrascensis Owen, Keyes, 3062.
parviformis n. sp., Girty, 2038.
pertenuis Meek, Drake, 1539.
pileiformis, Whitfield, 6099.
punctatus (Martin), Keyes, 3062.
seabriculus Martin, Girty, 2038.
semireticulatus (Martin)?, Girty, 2037, 2038.
semireticulatus (Martin), Keyes, 3062.
semireticulatus Martin, Weller, 6006.
symmetricus McChesney, Keyes, 3062.
 (Marginifera) *adairensis* n. sp., Drake, 1539.
- Proetus Steininger*, Grabau, 2086.
conradi Hall, Clarke, 971.
curvmarginatus Hall, Grabau, 2086.
decorus, Beecher, 366.
derminatus, Foerste, 1835.
loganensis Hall and Whitfield, Girty, 2038.
macrocephalus Hall, Grabau, 2086.
missouriensis Shumard, Keyes, 3061.
missouriensis, Shumard, Lane, 3400.
mundulus n. sp., Whiteaves, 6074.
parviseulus, Beecher, 366.
parviseulus Hall, 1866, Clarke, 952.
perocicids Hall and Whitfield, Girty, 2038.
?placidus n. sp., Vogdes, 5761.
protuderans Hall, Girty, 2037.
rowi (Green), Grabau, 2086.
swallowi Shumard, Keyes, 3061.

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- Prognathosaurus*, Williston, 6245.
- Progonoblattina columbiana*, Seudder, 4898.
- Prolobella* n. gen., Ulrich, 5539.
striatula n. sp., Ulrich, 5539.
- Promaerus euneatus* Hall, Weller, 5994, 6006.
websterensis n. sp., Weller, 5994.
- Prometopsis depilis*, Seudder, 4896.
- Promylacris harei* n. sp., Seudder, 4898.
rigida, Seudder, 4898.
testudo, Seudder, 4898.
- Protophlenia* (Tipulinae), Seudder, 4894.
- Pronorites Mojsisovics*, Smith, 5046.
cyclobolus Phillips, var. *arkansiensis*, Smith, 5046.
praepernicus Karpinsky, Smith, 5046.
 sp. undet., Smith, 5046.
- Propygoe Bittner*, Hall and Clarke, 2264.
 (Dictyothyris Douville), Hall and Clarke, 2264.
 (Rhætina Waagen), Hall and Clarke, 2264.
 (Zugmayeria Waagen), Hall and Clarke, 2264.
- Prostostega gigas* Cope, Wieband, 6128.
- Proteoides daphnogenoides* Heer, Hollick, 2696.
- Protagraulus* n. gen., Matthew, 3761.
priscus n. sp., Matthew, 3761, 3781.
- Protagriochoerus* n. gen., Scott, 4884.
- Protapirus obliquidens* n. sp., Wortman and Earle, 6181.
simplex W. and E., Hatcher, 2336.
simplex n. sp., Wortman and Earle, 6181.
validus n. sp., Hatcher, 2336.
- Protarea*, James, 2881.
- Protarea Milne-Edwards* and Haime, Lambe, 3374.
magna (vetusta? var.), Whiteaves, 6087.
vetusta, James, 2881.
vetusta Hall, Lambe, 3374.
vetusta Hall sp., Winchell and Schuchert, 6318.
- Protaster Forbes*, James, 2896.
 (?) *granuliferus* Meek, James, 2896.
miamiensis S. A. Miller, James, 2896.
- Protasterina Ulrich*, James, 2896.
finbriata Ulrich, James, 2896.
flexuosa (Miller and Dyer), James, 2896.
- Proteaphyllum reniforme* Font., Ward, 5846.
- Proteoides daphnogenoides* Heer, Newberry, 4080.
lanceifolius Heer, Lesquereux, 3470.
major n. sp., Dawson, 1436.
neillii n. sp., Dawson, 1436.
- Proterosaurus*, Case, 768.
- Prothyris meeki*, Winchell, Lane, 3400.
- Protichnites narragansettensis* n. sp., Packard, 4229.
- Protocalyptaea marshalli* n. sp., Clarke, 942.
styliophila n. sp., Clarke, 942.
- Protocardia Beyrich*, Dall, 1281.
jamaicensis n. sp., Dall, 1281.
levis var., Harris, 3313.
nicolletti var., Harris, 2310.
subsimile n. sp., Whiteaves, 6095a.
virginiana Conrad, Clark, 902.

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- Protocardia virginiana? Con., Harris, 2311.
(Lophocardium) Fischer, Dall, 1281.
sp. undet., Hill, 2539.
- Protocardium pendens n. sp., Cragin, 1115.
stonei n. sp., Cragin, 1115.
subspingerum n. sp., Cragin, 1115.
- Protocaris Walcott, Schuchert, 4850.
marshi, James, 2893.
- Protoceras Marsh, Osborn and Wortman, 4179.
- Protoceras Marsh, Scott, 4881.
celer Marsh, Marsh, 3681, 3705, 3708.
celer, Scott, 4872.
comptus n. sp., Marsh, 3682, 3708.
- Protochriacus Scott, Matthew, 3801.
attenuatus n. sp., Osborn and Earle, 4191.
attenuatus Osborn and Earle, Matthew, 3801.
hyattianus (Cope), Matthew, 3801.
priscus (Cope), Matthew, 3801.
priscus Cope, Osborn and Earle, 4191.
simplex Cope, Osborn and Earle, 4191.
- Protodus n. gen., Woodward, 6434.
jexi n. sp., Woodward, 6434.
- Protoficus inaequalis Newb., Newberry, 4083.
- Protogauleus hippos n. gen. (sp. Cope), Riggs, 4642.
- Protogonodon Scott, Matthew, 3800.
- Protogonodon Scott, Osborn and Earle, 4191.
pentacis Cope, Osborn and Earle, 4191.
stenognathus n. sp., Matthew, 3801.
- Prothippus castilli Cope, Cope, 1087.
fossulatus Cope n. sp., Cope, 1087.
insignis Leidy, Cope, 1087.
labiosus Cope, Cope, 1087.
lenticularis Cope sp. nov., Cope, 1087.
mirabilis Leidy, Cope, 1087.
pachyops Cope n. sp., Cope, 1087.
pavulus Marsh, Cope, 1087.
perditus Leidy, Cope, 1087.
placidus Leidy, Cope, 1087.
sejunctus Cope, Cope, 1087.
- Protolabis Cope, Wortman, 6493.
mortuus n. sp., Douglas, 6540.
transmontanus Cope, Wortman, 6493.
- Protolambda n. gen., Osborn, 4205.
hatcheri n. sp., Osborn, 4205.
- Protolenus Matt., Matthew, 3748.
matthew, Matthew, 3761, 3789.
bi-tuberculatus n. sp., Matthew, 3761.
elegans n. gen. et sp., Matthews, 3744, 3751.
howleyi, Wale, sp.?, Matthew, 3789.
paradoxioides, Matthews, 3744, 3751, 3761.
- Protophyllum, Dawson, 1436.
crassum, n. sp., Lesquereux, 3470.
crednerioides? Lesq., Lesquereux, 3472.
crenatum, Lesquereux, 3470.
denticulatum n. sp., Lesquereux, 3470.
dimorphum n. sp., Lesquereux, 3470.
haydenii Lesq., Lesquereux, 3470.
integerrimum n. sp., Lesquereux, 3470, 3472.
leconteanum Lesq., Lesquereux, 3470
minus Lesq., Newberry, 4083.
multinerve Lesq., Lesquereux, 3470.

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- Protophyllum multinerve Lesq., Newberry, 4083.
obovatum n. sp., Newberry, 4080.
praestans n. sp., Lesquereux, 3470.
pseudospermoides n. sp., Lesquereux, 3470.
pterospiriferolium n. sp., Lesquereux, 3470.
querciforme n. sp., Hollick, 2681.
sternbergii Lesq., Lesquereux, 3470.
sternbergii Lesq., Newberry, 4083.
undulatum n. sp., Lesquereux, 3470.
- Protoreodon Scott and Osborn, Scott, 4884.
- Protorhynchia Hall, Hall and Clarke, 2261a, 2261.
- Protorhynchus n. gen., Wortman, 6489.
ventricolus (Cope), Wortman, 6489.
- Protorthis n. gen., Hall and Clarke, 2260.
cassinensis n. sp., Whitfield, 6106.
minima n. sp., Whitfield, 6106.
- Protosalvinia (Sporangites) huronensis, Ami, 88.
- Protoscolex magnus n. sp., Miller and Faber, 3994.
- Protaspyraena gigas n. sp., Stewart, 5243.
- Protoselene n. gen., Matthew, 3801.
opisthacus Cope, Matthew, 3801.
- Protosiphon kempanum Matt., Matthew, 3781
- Protosphyraena recurvirostris n. sp., Stewart, 5240.
- Protosphyraenidae S. Woodward, Crook, 1147
- Protosphyraeus bentonia n. sp., Stewart, 5237.
n. sp., Stewart, 5237.
- Protospongia Salter, Matthew, 3761.
coronata Dawson, Dawson, 1452.
cyathiformis Dawson, Dawson, 1452.
(?) cyathiformis Dawson, Rauff, 4548.
delicatula Dawson, Dawson, 1452.
minor var. distans Matthew, Rauff, 4548.
mononema Dawson, Dawson, 1452.
mononema Dawson, Rauff, 4548.
polynema Dawson, Dawson, 1452.
polynema Dawson, Rauff, 4548.
tetracema Dawson, Dawson, 1452.
tetracema Dawson, Rauff, 4548.
(Diagoniella) coronata Dawson, Rauff, 4548.
- Protostega, Case, 764, 768.
ischyria (Weiland), Weiland, 6130.
- Protowarthia n. gen., Ulrich and Scofield, 5541.
cancellata Hall, Ulrich and Scofield, 5541.
concinna n. sp., Ulrich and Scofield, 5541.
granistriata n. sp., Ulrich and Scofield, 5541.
obesa n. sp., Ulrich and Scofield, 5541.
pervoluta n. sp., Ulrich and Scofield, 5541.
planodorsata n. sp., Ulrich and Scofield, 5541.
rectangularis n. sp., Ulrich and Scofield, 5541.
subcompressa n. sp., Ulrich and Scofield, 5541.
- Protriton, Case, 767.
- Protylopus Wortman, Scott, 4884.
petersonii n. gen. et sp., Wortman, 6493.

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- Proutella, Simpson, 4983.
 Prunus (?) acutifolia n. sp., Newberry, 4080.
 (amygdalus)? antedecens n. sp., Lesquereux, 3470.
 variabilis Newberry, Knowlton, 3232.
 variabilis Newb., Newberry, 4083.
 Prynomoëus decipiens n. sp., Ulrich, 5535.
 subcuneatus n. sp., Ulrich, 5535.
 Psammecchinus cingulatus Clark, Clark, 892.
 Psammobia (Lam.) Bowditch, Dall, 1281.
 ozarkana n. sp., Harris, 2313.
 (Gobriæus) wagneri Dall, Dall, 1281.
 Psammobiidae, Dall, 1276.
 Psammosolen Risso, Dall, 1281.
 eumingianus Dunker, Dall, 1281.
 vicksburgensis Aldrich, Dall, 1281.
 (Azor) Leach, Dall, 1281.
 Psephenus lutulentus n. sp., Scudder, 4900.
 Psephodus (Helodus) politus n. sp., Newberry, 4082.
 Pseudamussium claihornense, Harris, 2313.
 Pseudocopterus Lx., White, 6050.
 obtusiloba (Brongn.) Lx., White, 6050.
 squamosa Lx. sp., White, 6050.
 sp., White, 6050.
 Pseudodanaopsis obliqua (Emmons) Fontaine, Ward, 5857.
 plana (Emmons) Fontaine, Ward, 5857.
 Pseudodiadema emersoni Clark, Clark, 892.
 diatretum (Morton), Clark, 892.
 texanum (Roemer), Clark, 892.
 texanum Roemer, Cragin, 1115.
 Pseudoliva ostrarupis n. sp., Harris, 2307.
 ostrarupis, Harris, 2310.
 var. pauper, Harris, 2310.
 scalina Heilp., Harris, 2310, 2316.
 tuberculifera Con., Harris, 2316.
 unicarinata, Harris, 2310.
 vetusta, Harris, 2310, 2315, 2316.
 vetusta var., Harris, 2311.
 vetusta?, Whitfield, 6097.
 sp., Harris, 2310.
 Pseudomonotis curta Hall, Logan, 3559.
 (?) cf. hawni Meek, Beede, 393.
 var. equistriata? sp.? nov., Beede, 393.
 robusta sp.? var.? nov., Beede, 393.
 tenuistriata sp.? var.? nov., Beede, 393.
 Pseudopocopteris macilenta (L. and H.) Lx., White, 6049.
 squamosa, Lx., White, 6049.
 Pseudoperna n. gen., Logan, 3557.
 attenuata n. sp., Logan, 3557.
 orbicularis n. sp., Logan, 3557.
 rugosa n. sp., Logan, 3557.
 torta n. sp., Logan, 3557.
 wilsoni n. sp., Logan, 3557.
 Pseudophorus teetiformis n. sp., Whiteaves, 6074.
 Pseudosphærexochus trentonensis n. sp., Clarke, 952.
 Psilocoencha n. gen., Ulrich, 5539.
 elliptica n. sp., Ulrich, 5535.
 grandis n. sp., Ulrich, 5535.
 inornata n. sp., Ulrich, 5535.
 minima n. sp., Ulrich, 5535.

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- Psilocoencha minnesotensis n. sp., Ulrich, 5539.
 sinuata Ulrich, 5535.
 subovalis Ulrich, 5535.
 subrecta n. sp., Ulrich, 5535.
 tenuistriata n. sp., Ulrich, 5535.
 Psilonychia perangulata n. gen. et sp., Ulrich, 5535.
 Psilophyton grandis n. sp., Penhallow, 4333.
 Psittacotherium Cope, Wortman, 6492.
 multifragum Cope, Osborn and Earle, 4192.
 multifragum Cope, Wortman, 6490.
 Ptenoceras n. gen., Hyatt, 2819.
 Pteranodon, Case, 768.
 Pteranodon Marsh, 3702.
 Pteranodon Williston, 6220.
 Pteraspidae, Case, 766.
 Pterbostichus Bonelli, Scudder, 4896.
 abrogatus, Scudder, 4896.
 destitutus, Scudder, 4896.
 destructus, Scudder, 4896.
 dormitans, Scudder, 4896.
 fractus, Scudder, 4896.
 gelidus, Scudder, 4896.
 Pteria colymbus Bolten, Dall, 1272.
 hirundo Bolten, Dall, 1272.
 var. vitrea Reeve, Dall, 1272.
 multangula H. C. Lea, Dall, 1272.
 ? salincensis White, Cragin, 1115.
 scopoli, Dall, 1272.
 (argentea var.?) chipolana Dall, Dall, 1272.
 Pterichidae, Case, 766.
 Pterinea Goldfuss, Grabau, 2086.
 avienolidea, Whitfield, 6099.
 brisa, Foerste, 1835.
 cardinata, Lane, 3400.
 cincinnatiensis n. sp., Miller and Faber, 3996.
 flabella (Conrad), Grabau, 2086.
 flabella, Whitfield, 6099.
 lobata n. sp., Whiteaves, 6074.
 regatula n. sp., Miller and Faber, 3996.
 similis, Whitfield, 6099.
 sp.?, Clarke, 971.
 Pterinopecten Hall, Grabau, 2086.
 conspicuosus Hall, Grabau, 2086.
 hermes Hall, Grabau, 2086.
 cf. latus H., Weller, 6006.
 proteus n. sp. Clarke, 971.
 pumilus n. sp., Clarke, 971.
 sedaliensis n. sp., Miller, 3992.
 signatus n. sp., Clarke, 971.
 subequilateralis Hall, Clarke, 917.
 undodus Hall, Grabau, 2086.
 Pteris dakotensis n. sp., Lesquereux, 3470.
 pennæformis Heer, Newberry, 4083.
 pseudopennæformis, Hollick, 2708.
 russellii Newb., Newberry, 4083.
 Pterodaetylus, Case, 768.
 Pteronites hopkinsi n. sp., Weller, 5986.
 lævis n. sp., Weller, 5986.
 whitei (Win.), Weller, 6006.
 Pterophyllum daleanum Ward, n. nom., Ward, 5857.
 inæquale Fontaine, Ward, 5857.

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- Pterophyllum rajmahalense* Morris, Ward, 5857.
Pteropsis Conrad, Dall, 1272.
Pteropurpura postii n. sp., Dall, 1269.
 cupanioides Newb., Knowlton, 3224.
Pterospermites dentatus Heer, Newberry, 4083.
 hagueti n. sp., Knowlton, 3255.
 longeacuminata n. sp., Lesquereux, 3470.
 modestus n. sp., Lesquereux, 3470.
 modestus Lesq., Hollick, 2696.
 undulatus n. sp., Knowlton, 3264.
 wardii n. sp., Knowlton, 3264.
Pterosphenus schucherti n. gen. et sp., Lucas, 3583.
Pterostichus pumpellyi n. sp., Scudder, 4900.
 walcotti n. sp., Scudder, 4900.
Pterotoerinus Lyon and Cass., Wachsmuth and Springer, 5765a.
 acutus, var. *bifurcatus* (Wetherby), Wachsmuth and Springer, 5765a.
 acutus Wetherby, Wachsmuth and Springer, 5765a.
 capitalis (Lyon), Wachsmuth and Springer, 5765a.
 chesterensis Meek and Worthen, Wachsmuth and Springer, 5765a.
 coronarius Lyon, Wachsmuth and Springer, 5765a.
 crassus Meek and Worthen, Wachsmuth and Springer, 5765a.
 depressus Lyon and Cass., Wachsmuth and Springer, 5765a.
 pyramidalis Lyon and Cass., Wachsmuth and Springer, 5765a.
Pterotoerinus chesterensis (Meek and Worthen), Keyes, 3061.
 wetherbyi n. sp., Miller and Gurley, 3997d.
Pterygometopus callicephalus Hall (sp.), Clarke, 952.
 eboraceus n. sp., Clarke, 952.
 intermedius Walcott (sp.) 1877, Clarke, 952.
 schmidti n. sp., Clarke, 952.
Ptilocella n. gen., Simpson, 4983.
Ptilodietya Lonsdale, Grabau, 2086.
Ptilodietya Simpson, 4983.
Ptilodietya Lonsdale, Ulrich, 5537.
 plumea Hall, Grabau, 2086.
Ptilodus Cope, Osborn, 4184.
Ptilopora, Simpson, 4983.
 sp., Girty, 2038.
Ptiloporella, Simpson, 4983.
Ptiloporina, Simpson, 4983.
Ptilotrypa, Simpson, 4983.
Ptomatis forbesi n. sp., Clarke, 976.
Ptychoceras, Hyatt, 3819.
 crassum Whitfield, Hyatt, 3819.
 near crassum, Harris, 2335.
 texanum Shum., Hyatt, 3819.
 (*Selcnoceras*) *annulifer* Whitfield, 6097.
Ptychoerinus Wachsmuth and Springer, James, 2889.
 angularis Miller and Dyer, James, 2889.
 parvus Hall, James, 2889.
 splendens (S. A. Miller), Keyes, 3061.
Ptychodesma cf. *P. minor* Hall, Weller, 5994.

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- Ptychodus agassiz*, Williston, 6259.
 anonymus n. sp., Williston, 6259.
 janewayii, Williston, 6259.
 martini n. sp., Williston, 6259.
 mortoni, Williston, 6259.
 occidentalis n. sp., Williston, 6259.
 polygyrus, Williston, 6259.
 whippleyi, Williston, 6259.
Ptychonema, Simpson, 4983.
 helderbergiae Hall, Clarke, 971.
Ptychoparia, Hawle and Corda, Matthew, 3788.
 adamsi Billings sp., Matthew, 3776.
 (E.) *affinis* Walcott, Walcott, 5816.
 antiqua Salter sp., Walcott, 5816.
 (?) *attleborensis* Shaler and Foerste, Grabau, 2092.
 calymenoides (Whitfield), Berkey, 429.
 (?) *diademata* Hall sp., Walcott, 5816.
 kingi, Beecher, 366.
 limbata n. sp., Matthew, 3776.
 linnarssoni, Beecher, 366.
 llanoensis Walcott (?), Walcott, 5816.
 monile, Beecher, 366.
 penfieldi n. sp., Walcott, 5816.
 rogersi Walcott, Grabau, 2092.
 (*Atops*) *trilineata*, James, 2893.
 (*Lonochocephalus*) *wisconsinensis*, Owen sp., Walcott, 5816.
 sp. undet., Walcott, 5816.
Ptychophyllum benedicti, n. sp., Greene, 2162c.
 gemmatum, n. sp., Greene, 2162c.
 robustum, n. sp., Greene, 2162d.
Ptychopyge ulrichi n. sp., Clarke, 952.
Ptychosiagum, Case, 768.
Ptychospira n. gen., Hall and Clarke, 2261, 2264.
Ptyctodus calcolus, Eastman, 1601.
 compressus n. sp., Eastman, 1601.
 ferox n. sp., Eastman, 1601.
 obliquus, Eastman, 1601.
 major, Eastman, 1601.
 molaris, Eastman, 1601.
 panderi n. sp., Eastman, 1601.
Ptyonius, Case, 767.
Ptysmaphora n. gen., Scudder, 4895.
 fletcheri n. sp., Scudder, 4895.
Pugnax, n. subgen., Hall and Clarke, 2261a.
 striatocostata (M. and W.) var.?, Weller, 6006.
Pugnellus fusiformis Meek, Herrick and Johnson, 2465.
 fusiformis (Meek), Stanton, 5191.
Pulchellia bentonianum n. sp., Cragin, 1115.
 mexicana n. sp., Aguilera, 57.
Pullenia multilobata n. sp., Chapman, 870.
 sphaeroides (d'Orbigny), Chapman, 870.
Pulvinulina elegans, Bagg, 148.
 haueri d'Orbigny sp., Woodward and Thomas, 567.
 karsteni (Reuss), Bagg, 150.
 menardii d'Orbigny sp., Woodward and Thomas, 6433.
 melcheliniana (d'Orbigny), Bagg, 150.
 reticulata Reuss, var. *carinata* Bagg, Bagg, 150.

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- Pulvinulina schreibersii*, Bagg, 148.
Pupa primæva n. sp., Matthew, G. F., 3758.
Pyenoceras n. gen., Hyatt, 3819.
 apertum n. sp., Hyatt, 3819.
 caleiferiforme n. sp., Hyatt, 3819.
Pyenodont, Cope, 1084.
Pyenodus phascolus, Hay, 2381.
Pyenophalus solarioides Hall, Whiteaves, 6080.
Pynopegma n. gen., Rauff, 4549.
 callosum n. sp., Rauff, 4549.
 pileum n. sp., Rauff, 4549.
 stromatoporoides n. sp., Rauff, 4549.
Pyenosaceus Angelin, Weller, 6002.
 americanus n. sp., Weller, 6002.
Pygope Link, Hall and Clarke, 2264.
Pyramidella, Harris, 2309.
 arenosa Conrad, Dall, 1259.
 bastropensis n. sp., Harris, 2307.
 crenulata Holmes, Dall, 1259.
 forulata n. sp., Guppy and Dall, 2210.
 (*Longchæus*) *jamaicensis* n. sp., Guppy and Dall, 2214.
Pyraminitra costata Lea, Aldrich, 73.
Pyrazisinus? *haitensis* n. sp., Guppy and Dall, 2214.
Pyrgnifera Meek, White, 6036.
 meekii n. sp., White, 6035.
 stantoni n. sp., White, 6036.
 viviparus hicksii n. sp., White, 6035.
Pyrifusus cuneus n. sp., Whitfield, 6097.
 erraticus n. sp., Whitfield, 6097.
 macfarlandi n. sp., Whitfield, 6097.
 meeki n. sp., Whitfield, 6097.
 mullieacensis?, Whitfield, 6097.
 pyruloides, Whitfield, 6097.
 territus n. sp., Whitfield, 6097.
Pyrina bulloides n. sp., Cragin, 1115.
 parryi Hall, Clark, 892.
 parryi Hall, Cragin, 1115.
Pyriopecten Hall, Grabau, 2086.
 orbiculatus Hall, Grabau, 2086.
Pyritonema crassicauda n. sp., Rauff, 4548.
 fasciculus McCoy, Rauff, 4548.
 subulare (F. Roemer), Rauff, 4548.
Pyropsis bairdi M. and H., Herrick and Johnson, 2465.
 elevata, Whitfield, 6097.
 coloradoensis n. sp., Stanton, 5191.
 coloradoensis Stanton, Logan, 3554.
 naticoides n. sp., Whitfield, 6097.
 (?) *obesa* n. sp., Whitfield, 6097.
 octolirata, Whitfield, 6097.
 perlata?, Whitfield, 6097.
 perula, Harris, 2310, 2311, 2316.
 rectifer, Whitfield, 6097.
 reileyi n. sp., Whitfield, 6097.
 richardsonii? Whitfield, 6097.
 trochiformis?, Whitfield, 6097.
 (*Rapa*?) *corrina* n. sp., Whitfield, 6097.
 (*Rapa*?) *septemlirata*, Whitfield, 6097.
 sp., Clark, 906.
Pyryla juvenis, Harris, 2310.
 nansemondi Wagner, Dall, 1273.
 (*Fusoficula*) *texana* n. sp., Harris, 2307.

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Genera and species described—Continued.

- Pyryla* (*Fusoficula*) *texana* Har., Aldrich, 73.
Pyrus cretacea Newb., Newberry, 4083.
Quedius breweri, Scudder, 4900.
 chamberlini, Scudder, 4900.
Quercinium lamarene n. sp., Knowlton, 3255.
Quercophyllum wyomingense n. sp., Fontaine, 1850.
 eulveri, n. sp., Knowlton, 3255.
Quereus, Knowlton, 3235.
 alnoides n. sp., Lesquereux, 3470.
 antiqua Newb., Newberry, 4083.
 aplegatei n. sp., Knowlton, 3262.
 argentum n. sp., Knowlton, 3263.
 banksiaefolia Newb., Newberry, 4083.
 breweri Lesquereux, Knowlton, 3262.
 castanoides Newb., Newberry, 4083.
 castanopsis Newb., Newberry, 4083.
 consimilis Newb., Knowlton, 3246, 3255, 3262.
 consimilis Newb., Newberry, 4083.
 coriacea Newb., Newberry, 4083.
 dentoni Lesquereux, Dawson, 1448.
 dentonoides n. sp., Knowlton, 3264.
 dubia Newb., Newberry, 4083.
 elliptica Newb., Newberry, 4083.
 ellisiana Lx., Knowlton, 3255.
 johnstrupi Heer (?), Newberry, 4080.
 flexuosa Newb., Newberry, 4083.
 furcinervis americana Kn., Knowlton, 3255.
 glaseoena n. sp., Lesquereux, 3470.
 gracilis Newb., Newberry, 4083.
 gronlandica Heer, Newberry, 4083.
 grossidentata n. sp., Knowlton, 3255.
 hesperia n. sp., Knowlton, 3255.
 hexagona Lesq., Lesquereux, 3470.
 holmesii Lesq., Dawson, 1436.
 idahoenis n. sp., Knowlton, 3246.
 laurifolia Newb., Newberry, 4083.
 lesquerenxiana Kn., Knowlton, 3264.
 (?) *magnifolia* n. sp., Knowlton, 3255.
 microdentata n. sp., Hollick, 2708.
 morrisoniana Lesq., Hollick, 2698.
 montanensis n. sp., Knowlton, 3264.
 (?) *novæ-caesareæ* n. sp., Hollick, 2698.
 obtusiloba, Dawson, G. M., 1418.
 obtusiloba michx., Penhallow, 4334.
 pacificæ n. sp., Knowlton, 3262.
 paucidentata Newb., Newberry, 4083.
 payettensis n. sp., Knowlton, 3246.
 salicifolia Newb., Newberry, 4083.
 simplex Newb., Newberry, 4083.
 simulata n. sp., Knowlton, 3246.
 sinuata Newb., Newberry, 4083.
 spurio-ilex n. sp., Lesquereux, 3470.
 subsinuata n. sp., Knowlton, 3262.
 sullyi Newb., Newberry, 4083.
 suspecta n. sp., Lesquereux, 3470.
 turneri n. sp., Knowlton, 3263.
 wardiana n. sp., Lesquereux, 3470.
 wardiana Lx., Ward, 5856.
 weedii n. sp., Knowlton, 3255.
 yanceyi n. sp., Knowlton, 3255.
 (*Dryophyllum*) *hieracifolia*, Lesquereux, 3470.

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Genera and species described—Continued.

- Quereus* (*Dryophyllum*) *hosiana* n. sp., Lesquereux, 3470.
 (*Dryophyllum*) *rhamnoides* n. sp., Lesquereux, 3470.
 sp., Knowlton, 3255, 3262.
 (?) sp.?, Hollick, 2698.
- Radiolites*, Stearns, 5210.
adhaerens n. sp., Whitfield, 6107.
annulosus n. sp., Whitfield, 6107.
cancellatus n. sp., Whitfield, 6107.
davidsoni n. sp., Hill, 2540.
macroplicatus n. sp., Whitfield, 6107.
maximus n. sp., Logan, 3554.
rudis n. sp., Whitfield, 6107.
 (*Lapeirousia*) *nicholasi* n. sp., Whitfield, 6107.
- Rafinesquina* n. gen., Hall and Clarke, 2260.
Rafinesquina Hall, Winchell and Schuchert, 6319.
alternata (Conrad Ms.) Emmons, Winchell and Schuchert, 6319.
 var. *loxorhytis* Meek, Winchell and Schuchert, 6319.
deltoides Conrad sp., Winchell and Schuchert, 6319.
lata n. sp., Whiteaves, 6083, 6087.
minnesotensis N. H. Winchell, Winchell and Schuchert, 6319.
 var. *inquassa* Sardeson, Winchell and Schuchert, 6319.
- Randomia*, Matthew, 3790.
aurora, Matthew, 3790.
- Rangia cuneata* var. *galvestonensis* n. var., Harris, 2309.
desmoulini, Dall, 1272.
johnsoni Dall, Dall, 1272.
 (?) *quadricentennialis* n. sp., Harris, 2309.
 (*Perissodon*) *minor* (?), Whitfield, 6101.
 (*Rangianella*) Conrad, Dall, 1272.
- Rampana tampaensis* Dall var. ?, Dall, 1272.
tampaensis n. sp., Dall, 1272.
- Raphistoma* Hall, Ulrich and Scofield, 5541.
- Raphistoma* Hall, Matthew, 3789.
affine, Foerste, 1835.
attleboroensis Shaler and Foerste, Grabau, 2092.
 (?) *kelliensis*, n. sp., Matthew, 3789.
lenticularis (Conrad), Keyes, 3062.
multivolvatum n. sp., Calvin, 684.
obtusa n. sp., Cleland, 1012.
paucivolvatum, n. sp., Calvin, 684.
pepinense Meek, Calvin, 684.
peracutum n. sp., Ulrich and Scofield, 5541.
richmondensis n. sp., Ulrich and Scofield, 5541.
subplana Shumard, Keyes, 3062.
tyrellii n. sp., Whiteaves, 6074.
- Raphistomidae* n. fam., Ulrich and Scofield, 5541.
- Raphistomina* n. gen., Ulrich and Scofield, 5541.
denticulata n. sp., Ulrich and Scofield, 5541.
lapida Salter, Ulrich and Scofield, 5541.
modesta n. sp., Ulrich and Scofield, 5541.

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Genera and species described—Continued.

- Raphistomina rugata* n. sp., Ulrich and Scofield, 5541.
- Rauffella* Ulrich, Winchell and Schuchert, 6318.
filosa Ulrich, Winchell and Schuchert, 6318.
palmipes Ulrich, Winchell and Schuchert, 6318.
- Receptaculites*, James, 2881.
- Receptaculites* De France, Whitfield, 6102.
- Receptaculites* DeFrance, Winchell and Schuchert, 6318.
circularis, James, 2881.
devonicus, Whitfield, 6099.
dickhauti, James, 2881.
dixonensis n. sp., Miller and Gurley, 4002.
elrodi n. sp., Miller, 3995.
fungosus, Whitfield, 6102.
globularis, Whitfield, 6102.
hemisphericus, Whitfield, 6102.
infundibulum, Whitfield, 6102.
infundibuliformis Eaton, Girty, 2034.
neptuni, Girty, 2034.
oweni, Girty, 2034.
oweni Hall, Keyes, 3061.
oweni, Whitfield, 6102.
oweni Hall, Winchell and Schuchert, 6318.
pearyi n. sp., Whitfield, 6112.
reticulatus, James, 2881.
- Remeleceras* n. gen., Hyatt, 2819.
clarkense n. sp., Miller and Gurley, 4003.
impressum, Hyatt, 2819.
- Remondia* Gabb, Stanton, 5202.
furcata Gabb, Stanton, 5202.
robbinsi (White), Stanton, 5202.
- Reniera* (?), Merrill, 3969.
- Rensselaeria* Hall, Hall and Clarke, 2261a, 2264.
cayuga n. sp., Hall and Clarke, 2261a, 2263, 2268.
ovoides Eaton, Clarke, 971.
ovulum, Hall and Clarke, 2268.
 (*Beachia* Hall), Hall and Clarke, 2264.
- Reptaria* Rolle, Grabau, 2086.
- Reptaria*, Simpson, 4983.
stolonifera Rolle, Grabau, 2086.
- Requimia texana* (?) (Roemer), Hill, 2539.
- Resania* Gray, Dall, 1272.
- Retecocrinus* Billings 1859, James, 2889.
alveolatus n. sp., Miller and Gurley, 3997c.
cognatus S. A. Miller, James, 2889.
gracilis Wetherby, James, 2889.
magnificus S. A. Miller, James, 2889.
o'nealli Hall, James, 2889.
- Retecograptus geinitzianus* Hall, Gurley, 2217.
- Reteporella* n. gen., Simpson, 4980, 4983.
- Reteporina* d'Orbigny, Grabau, 2086.
- Reteporina*, Simpson, 4983.
striata Hall, Grabau, 2086.
 sp. *indes*, Clarke, 971.
- Reticularia cooperensis* Swallow, Girty, 2038.
cooperensis var., Girty, 2038.
cooperensis (Swall.), Weller, 6006.
 (?) *peculiaris* Shumard, Girty, 2038.
perplexa (McChesney), Girty, 2037.
 (?) *subrotunda* Hall, Girty, 2038.
- Retusa chipolana* n. sp., Dall, 1269.

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- Retusa duplinensis* n. sp., Dall, 1269.
microtrema n. sp., Dall, 1269.
quercinensis n. sp., Dall, 1269.
(Cylichnina) deapitata n. sp., Dall, 1269.
- Retzia* King, Hall and Clarke, 2261, 2264.
circularis n. sp., Miller, 3995.
formosa, Whitfield, 6099.
mormoni (Marcou), Keyes, 3062.
plicata n. sp., Miller, 3995.
? raricosta n. sp., Rowley, 4677a.
triangulus n. sp., Miller, 3995.
- Rhabdocarpus multistriatus* (Presl.) Lx., White, 6050.
(Pachytesta) mansfieldi Lx., White, 6050.
- Rhabdogonium roemeri* Reuss, Bagge, 150.
tricarinatum (d'Orbigny), Bagge, 150.
var. acutangulum Reuss, Bagge, 150.
- Rhabdomeson americanum* n. sp., Rogers, 4658.
- Rhabdosispongia* n. gen., Hall and Clarke, 2269, 2270.
amaltha Hall (sp.), Hall and Clarke, 2269, 2270.
condroziana n. sp., Hall and Clarke, 2269, 2271.
- Rhacophyllites* (?) *alamitosensis* n. sp., Aguilera, 57.
calderoni n. sp., Aguilera, 57.
(?) disputabile n. sp., Aguilera, 57.
- Rhadinobrochus* n. gen., Scudder, 4894.
extinctus, Scudder, 4894.
- Rhadinoceras* n. gen., Hyatt, 2819.
hyatti, Hyatt, 2819.
- Rhamnacinium radiatum* Felix, Knowlton, 3255.
- Rhamnites apiculatus* n. sp., Lesquereux, 3470.
concinus Newb., Newberry, 4083.
minor Hollick n. sp., Newberry, 4080.
- Rhamnus eleburni* Lx., Hollick, 2708.
elegans Newb., Newberry, 4083.
ellipticus n. sp., Kirchner, 3187.
eridani Ung., Newberry, 4083.
inaequilateralis n. sp., Lesquereux, 3470.
inaequilateralis Lesq., Hollick, 2698.
middei n. sp., Lesquereux, 3470.
prunifolius Lesq., Lesquereux, 3470.
revoluta n. sp., Lesquereux, 3470.
salicifolius Lx., Knowlton, 3261.
similis n. sp., Lesquereux, 3470.
- Rhamphidia* Meigen, Scudder, 4894.
facaria, Scudder, 4894.
lawi, Scudder, 4894.
saxetana Scudder, 4894.
- Rhamphorynchus*, Case, 768.
- Rhaphidiopsis* n. gen., Scudder, 4892.
diversipenna, Scudder, 4892.
- Rhettosammia clabornensis* n. sp., Vaughan, 5735.
- Rhegnopsis palæatlanticus* Leidy, Cope, 1100.
- Rhinidietya*, Simpson, 4983.
- Rhinidietya* Ulrich, Ulrich, 5537.
exigua Ulrich, Ulrich, 5537.
fidelis Ulrich, Ulrich, 5537.
grandis n. sp., Ulrich, 5537.

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- Rhinidietya minima* Ulrich, Ulrich, 5537.
var. modesta n. var., Ulrich, 5537.
- mutabilis* Ulrich, Ulrich, 5537.
var. major, Ulrich, 5537.
var. senilis n. var., Ulrich, 5537.
- neglecta* n. sp., Ulrich, 5537.
paupera Ulrich, Ulrich, 5537.
pendiculata n. sp., Ulrich, 5537.
trentonensis Ulrich, Ulrich, 5537.
n. sp., Whiteaves, 6087.
- Rhinidietyonide* n. fam., Ulrich, 5537.
- Rhinobolus* Hall, Hall and Clarke, 2260.
dauidsoni n. sp., Hall and Clarke, 2260, 2268.
galtensis Billings, Whiteaves, 6080.
sp. undet., Whiteaves, 6080.
- Rhinocantha*? *conradi* n. sp., Whitfield, 6097.
- Rhinocaris*, Clarke, 939.
- Rhinocaris* (?) *bipennis* n. sp., Clarke, 958.
- Rhinoceros matutinus*, Marsh, 3681.
- Rhinopora*, Simpson, 4983.
prima n. sp., Whitfield, 6106.
- Rhipidomella* Oehlert, Grabau, 2086.
- Rhipidomella* Oehlert, Hall and Clarke, 2260.
burlingtonensis (Hall), Weller, 5994.
cyclas Hall, Grabau, 2086.
diminutiva n. sp., Rowley, 4677a.
idonea Hall, Grabau, 2086.
leucosia Hall, Grabau, 2086.
melchlini Léveillé, Girty, 2038.
oblata Hall, Clarke, 971.
oblata Hall, Girty, 2037.
var. emarginata Hall, Girty, 2037.
penelope Hall, Grabau, 2086.
vanuxemi Hall, Grabau, 2086.
- Rhipidopterygia* Cope, 1076.
- Rhizodopsis mazonius*, n. sp., Hay, 2388.
- Rhizodus*, Hay, 2381.
- Rhizomorphs*, Hollick, 2696.
- Rhizostomites admirandus* Haeckel, Walcott, 5811.
- lithographicus* Haeckel, Walcott, 5811.
- Rhodoceras benedicti* n. sp., Miller, 3995.
- blairi* n. sp., Miller and Gurley, 4000.
- bozemanensis* n. sp., Miller and Gurley, 4003.
- bridgerensis* n. sp., Miller and Gurley, 4003.
- caelatus* n. sp., Miller and Gurley, 3991.
- coxanus* Worthen, Keyes, 3061.
- douglassi* n. sp., Miller and Gurley, 4003.
- sculptus* n. sp., Miller and Gurley, 3991.
- wachsmuthi* Hall, Keyes, 3061.
- whitei* Hall, Keyes, 3061.
- wortheni* (Hall), Keyes, 3061.
- Rhynchinus burlingtonensis*, Jackson, 2871.
elegans, Jackson, 2871.
gracilis, Jackson, 2871.
- Rhomboladia* n. gen., Rogers, 4656.
delicata n. sp., Rogers, 4656.
- Rhombodictyon globosus* n. sp., James, 2881.
- Rhombopora* Meek, Grabau, 2086.
- Rhombopora*, Simpson, 4983.
hexagona (Hall), Grabau, 2086.
immersa Hall, Grabau, 2086.

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Genera and species described—Continued.

- Rhombopora lepidodendroides Meek, Keyes, 3062.
 lineata Hall, Grabau, 2086.
 polygona (Hall), Grabau, 2086.
 reticulata (Hall), Grabau, 2086.
 tortalinia, Grabau, 2086.
 (?) transversa (Hall), Grabau, 2086.
 Rhopalonaria, Simpson, 4983.
 Rhophalodon, Case, 768.
 Rhus frigida n. sp., Knowlton, 3232.
 membranacea Lx., Knowlton, 3264.
 mixta Lesquereux, Knowlton, 3262.
 (?) nervosa Newb., Newberry, 4083.
 ? nevadensis n. sp., Knowlton, 3263.
 payettensis n. sp., Knowlton, 3246.
 powelliana n. sp., Lesquereux, 3470.
 rotundifolia n. sp., Kirchner, 3187.
 uddeni n. sp., Lesquereux, 3470.
 uddeni Knowlton, 3234.
 westii n. sp., Lesquereux, 3470.
 Rhynchites subterraneus, Scudder, 4890.
 Rhynchodus excavatus, Eastman, 1601.
 major n. sp., Eastman, 1601.
 occidentalis, Eastman, 1601.
 rostratus n. sp., Eastman, 1601.
 secans, Eastman, 1601.
 Rhynchonella Fischer de Waldheim, Hall and Clarke, 2261a, 2264.
 Rhynchonella, Herrick and Johnson, 2465.
 anticostiensis var., Whiteaves, 6087.
 ? anticostensis Billings, Winchell and Schuchert, 6319.
 barquensis, Win., Lane, 3400.
 boonensis Shumard, Keyes, 3062.
 capax (Conrad), Keyes, 3062.
 colletti n. sp., Miller, 3995.
 dentata (Hall), Keyes, 3062.
 gnathopora Meek, Stanton, 5206.
 hydraulicum, Whitfield, 6099.
 kokomoensis n. sp., Miller, 3995.
 lacuosa var. arolica Oppel, Aguilera, 57.
 mainensis Bill., Williams, 6190.
 missouriensis Shumard, Keyes, 3062.
 mutata Hall, Weller, 5986.
 myrina Hall and Whitfield, Stanton, 5206.
 nucleolata Hall, Williams, 6190.
 pyramidata Hall, Williams, 6190.
 raricosta, Whitfield, 6099.
 schucherti n. sp., Stanton, 5199.
 scobina, Foerste, 1835.
 subcircularis, Lane, 3400.
 suciensis n. sp., Whiteaves, 6085.
 uta (Marcou), Keyes, 3062.
 vellicata Hall, Williams, 6190.
 whitneyi Gabb, Stanton, 5199.
 sp. undet., Weller, 6006.
 Rhynchonellina Gemellaro, Hall and Clarke, 2264.
 Rhynchopora King, Hall and Clarke, 2261a, 2264.
 Rhynchopora Dalman, Hall and Clarke, 2264.
 Rhynchorina Oehlert, Hall and Clarke, 2264.
 Rhynchospira Hall, Hall and Clarke, 2264.
 (Homospira Hall), Hall and Clarke, 2264.
 formosa (Hall), Girty, 2037.

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Genera and species described—Continued.

- Rhynchospira scansa, Hall and Clarke, 2268.
 Rhyncotreta Hall, Hall and Clarke, 2261a, 2264.
 Rhyncorthoceras, Hyatt, 2819.
 Rhynchotrema Hall, Hall and Clarke, 2261a, 2264.
 Rhynchotrema Hall, Winchell and Schuchert, 6319.
 ainsliei N. H. Winchell, Winchell and Schuchert, 6319.
 capax Conrad sp., Winchell and Schuchert, 6319.
 inaequivalvis Castelnau, Winchell and Schuchert, 6319.
 var. laticostata W. and S., Winchell and Schuchert, 6319.
 inaequivalvis var. laticostata, Winchell and Schuchert, 2298.
 Rhynoceroses, Osborn and Wortman, 4189.
 Rhynochospira Hall, Hall and Clarke, 2261.
 Rhytimya Ulrich, Ulrich, 5539.
 byrnesi, Ulrich, 5535.
 compressa n. sp., Ulrich, 5535.
 convexa n. sp., Ulrich, 5535.
 mickleboroughi, Ulrich, 5535.
 oehana n. sp., Ulrich, 5535.
 producta n. sp., Ulrich, 5535.
 radiata n. sp., Ulrich, 5535.
 recta n. sp., Whiteaves, 6087.
 sinuata n. sp., Ulrich, 5539.
 Rhysosternum n. gen., Scudder, 4890.
 aternabile, Scudder, 4890.
 longirostre, Scudder, 4890.
 Rhysomatus tabescens, Scudder, 4890.
 Rhytophorus meekii, White, White, 6036.
 priscus Meek, White, 6036.
 Ribeiria (?) nuculitiformis n. sp., Cleland, 1012.
 nuculitiformis var. equilatera (?), Cleland, 1012.
 Ricania antiqua, Scudder, 4895.
 Richthofenia Kayser, Hall and Clarke, 2261a, 2264.
 Rineceras n. gen., Hyatt, 2816.
 Rinella texana n. sp., Harris, 2307.
 var. plena n. var., Harris, 2307.
 Ringicula alabamensis n. sp., Aldrich, 74.
 biplicata, Aldrich, 74.
 butleriana n. sp., Aldrich, 73, 74.
 var. lignitifera n. var., Aldrich, 74.
 butleriana Ald., Harris, 2316.
 butleriana var. lignitifera Ald., Harris, 2316.
 chipolana n. sp., Dall, 1269.
 claibornensis n. sp., Aldrich, 74.
 dalli n. sp., Clark, 904, 906.
 dalli, Aldrich, 74.
 guppyi Dall (floridana var.?), Dall, 1259.
 lisbonensis n. sp., Aldrich, 74.
 mississippiensis, Aldrich, 74.
 semilimata n. sp., Dall, 1269.
 trapaquara n. sp., Harris, 2307.
 trapaquara, Aldrich, 74.
 Rissoa athymorhyssa n. sp., Dall, 1259.
 lipuus n. sp., Dall, 1259.
 (Alvania) pariana n. sp., Guppy and Dall, 2214.

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- Rissoa (Onoba) callistrophia n. sp., Dall, 1259.
 (Onoba) geræa n. sp., Dall, 1259.
 geræa var. minor, Dall, 1259.
 microharia n. sp., Dall, 1259.
 Rissoina alabamensis n. sp., Aldrich, 73.
 alabamensis Harris, 2310.
 chipolana n. sp., Dall, 1259.
 johnsoni n. sp., Dall, 1250.
 lævigata Adams, Dall, 1259.
 Rochefortia Vélain, Dall, 1281.
 bidentata Montagu, Dall, 1281.
 planulata Stimpson, Dall, 1281.
 stantoni n. sp., Dall, 1281.
 stimpsoni n. sp., Dall, 1281.
 Roemerella n. subgen., Hall and Clarke, 1260.
 Roemerispongia n. gen., Hall and Clarke, 2269, 2270.
 gerolsteinensis F. Roemer (sp.), Hall and Clarke, 2269, 2270.
 Romingeria, Girty, 2032.
 Romingeria Nicholson, Lambe, 3374.
 umbellifera Billings (sp.), Lambe, 3374.
 Romingerina n. gen., Hall and Clarke, 2261a.
 [Centronella] julia, Lane, 3400.
 Rondairia quadrans n. sp., Cragin, 1116.
 Rosmarus sosmarus, Rhoads, 4586.
 virginianus (De Kay), Rhoads, 4586.
 Rostellaria compacta n. sp., Whitfield, 6097.
 curta n. sp., Whitfield, 6097.
 fusiformis n. sp., Whitfield, 6097.
 hebe n. sp., Whitfield, 6097.
 nobilis n. sp., Whitfield, 6097.
 spirata n. sp., Whitfield, 6097.
 (Orthaulax) Gabb., Dall, 1259.
 gabbi n. sp., Dall, 1259.
 pugnax Heilprin, Dall, 1259.
 (Rimella) smithii n. sp., Dall, 1259.
 Rostellites ambigua Stanton, Herrick and Johnson, 2465.
 ambigua n. sp., Stanton, 5191.
 ambigua ? Stanton, Logan, 3554.
 angulatus n. sp., Whitfield, 6097.
 biconicus n. sp., Whitfield, 6097.
 dalli Stanton, Herrick and Johnson, 2465.
 dalli n. sp., Stanton, 5191.
 gracilis Stanton, Herrick and Johnson, 2465.
 gracillis n. sp., Stanton, 5191.
 nasutus, Whitfield, 6097.
 pupoides n. sp., Cragin, 1116.
 texturatus n. sp., Whitfield, 6097.
 willistonii n. sp., Logan, 3554.
 Rotalia beccarii, Baggs, 148.
 orbicularis, Baggs, 148.
 orbicularis d'Orbigny, Chapman, 870.
 soldanii, Baggs, 148.
 Roudairia denisonensis n. sp., Cragin, 1118.
 (?) quadrans, Stanton, 5197.
 Rusophycus chesterense n. sp., Miller and Gurley, 4003.
 montanense n. sp., Miller and Gurley, 4003.
 Sabal campbelli Newb., Newberry, 4083.
 campbellii Newberry, Dawson, 1448.
 grandifolia Newb. n. sp., Newberry, 4083.
 imperialis Dn., Dawson, 1436.

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- Sabal imperialis Dn., Newberry, 4083.
 powelli Newb., Newberry, 4083.
 Sabalites grayanus Lx., Knowlton, 3264.
 Saccocrinus benedicti n. sp., Miller, 3995.
 gorbyi n. sp., Miller, 3992.
 howardi n. sp., Miller, 3995.
 umbrosus n. sp., Miller and Gurley, 3997d.
 Sacculina purpurea, Beecher, 366.
 Saffordia n. gen., Ulrich, 5539.
 modesta Ulrich, Ulrich, 5539.
 sulcodorsata Ulrich, Ulrich, 5539.
 ventralis n. sp., Ulrich, 5539.
 Sagenella, Simpson, 4983.
 Sagenodus, Hay, 2388.
 brownlae n. sp., Cope, 1103.
 conchiolepis n. sp., Cope, 1103.
 copeanus n. sp., Williston, 6254.
 emmonsii Fontaine n. sp., Ward, 5857.
 foliatus n. sp., Cope, 1103.
 foliatus Cope, Hay, 2388.
 fossatus Cope, Case, 773.
 gurleyanus Cope, Case, 773.
 gurleyanus n. sp., Cope, 1103.
 heterolophus Cope, Case, 773.
 lacovianus n. sp., Cope, 1103.
 lacovianus Cope, Hay, 2388.
 magister n. sp., Cope, 1103.
 nilsoniana (Brongniart) Ward, n. comb., Ward, 5857.
 occidentalis Newb., Cope, 1103.
 occidentalis (Newb. and Worth.), Hay, 2388.
 paucicristatus Cope, Case, 773.
 pusillus Cope, Case, 773.
 quadratus (Newb.), Hay, 2388.
 quincunciatas n. sp., Cope, 1103.
 quincunciatas Cope, Hay, 2388.
 reticulatus Newberry, Cope, 1103.
 reticulatus (Newb. and Worth.), Hay, 2388.
 textilis, Hay, 2381, 2388.
 vabasensis Cope, Case, 773.
 vinslovii Cope, Case, 773.
 sp. Fontaine, Ward, 5857.
 Sagittaria latifolia Willd., Ward, 5846.
 victor-masoni n. sp., Ward, 5846.
 Salenia bellula Clark, Clark, 892.
 texana Credner, Clark, 892.
 texana Credn., Cragin, 1115.
 tumidula Clark, Clark, 892.
 Salix minuta n. sp., Knowlton, 3232.
 Salisburia pusilla n. sp., Dawson, 1436.
 Salix, Dawson, 1436.
 angusta Al. Br., Knowlton, 3246, 3263, 3264.
 angusta Al. Br., Newberry, 4083.
 euneata Newb., Newberry, 4083.
 delata n. sp., Lesquereux, 3470.
 flexuosa Lesq., Hollick, 2695.
 flexuosa Newb., Newberry, 4083.
 foliosa Newb. n. sp., Newberry, 4083.
 hayei n. sp., Lesquereux, 3470.
 inæqualis n. sp., Newberry, 4080.
 inæqualis Newb., Hollick, 2696.
 integra Goepfert, Dawson, 1448.
 meekii Newb., Hollick, 2698.
 meekii Newb., Newberry, 4080.

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- Salix membranacea* Newb., Newberry, 4080, 4083.
newberryana Hollick n. sp., Newberry, 4080.
proteaeifolia lanccolata Lesq., Hollick, 2695.
proteaeifolia Lesq., Newberry, 4080.
proteaeifolia var. *flexuosa* Lesq., Lesquereux, 3470.
 var. *lanccolata* Lesq., Lesquereux, 3470.
 var. *lincarfolia* Lesq., Lesquereux, 3470.
 var. *longifolia* Lesq., Lesquereux, 3470.
purpuroides n. sp., Hollick, 2672.
stantoni n. sp., Knowlton, 3264.
vaccinifolia n. sp., Knowlton, 3263.
varians Goepfert, Dawson, 1448.
varians Heer, Knowlton, 3255.
 sp., Knowlton, 3264.
 sp.?, Newberry, 4080.
Salpingostoma Roemer, Ulrich and Scofield, 5541.
 buelli Whitfield, Ulrich and Scofield, 5541.
 imbricatus n. sp., Ulrich and Scofield, 5541.
 richmondensis n. sp., Ulrich and Scofield, 5541.
 sculpilis n. sp., Ulrich and Scofield, 5541.
Salterella curvatus Shaler and Foerste, Grabau, 2092.
Salvinia elliptica Newby. n. sp., Hollick, 2673.
Sampsonocrinus n. gen., Miller and Gurley, 3998.
 hemisphericus n. sp., Miller and Gurley, 3998.
Sandalodus ellipticus n. sp., Newberry, 4082.
Sandbergeroceras Hyatt, Clarke, 960.
 syngonum n. sp., Clarke, 960.
Sanguinolaria Lamarck, Dall, 1281.
 unioides n. sp., Guppy and Dall, 2214.
Sanguinolites borealis, Lane, 3400.
 borealis ? Winchell, Lane, 3400.
 michiganensis Herrick, Lane, 3400.
 websterensis n. sp., Weller, 5994.
 sp.?, Weller, 5986.
Sannionites (Cameroceras) *trentonense*, Hyatt, 2820.
Sao hirsuta, Beecher, 366.
Saperdirhynchus n. gen., Scudder, 4890.
 priscoitillator, Scudder, 4890.
Sapindopsis variabilis Fontaine, Fontaine, 1850.
Sapindus affinis Newby., Knowlton, 3255.
 affinis Newb., Newberry, 4083.
 angustifolius Lx., Hollick, 2708.
 apiculatus Vel., Hollick, 2698.
 diversifolius n. sp., Lesquereux, 3470.
 grandifoliolus Ward, Knowlton, 3255.
 grandifolioloides n. sp., Knowlton, 3255.
 (?) *membranaceus* Newb., Newberry, 4083.
 morrisoni Lesq., Hollick, 2696.
 morrisoni Lesq., Lesquereux, 3470, 3472.
 wardii n. sp., Knowlton, 3255.
Sapocites haydenii Heer, Newberry, 4083.
Sapotacites americanus Lx., Hollick, 2708.

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Genera and species described—Continued.

- Sapotacites retusus* Heer, Newberry, 4080.
Sarcothaustes Cope, Matthew, 3801.
 antiquus Cope, Matthew, 3801.
 antiquus Cope, Osborn and Earle, 4191.
 coryphaeus Cope, Osborn and Earle, 4191.
Sarepta A. Adams, Dall, 1272.
Sassafras acutilobum Lesq. (?), Hollick, 2698.
 acutilobum Lesq., Newberry, 4083.
 cretaceum Newb., Newberry, 4083.
 cretaceum var. *obtusum*, Knowlton, 3234.
 hastatum n. sp., Newberry, 4080.
 mudgei, Knowlton, 3234.
 mudgii Lx., Ward, 5856.
 primordiale n. sp., Lesquereux, 3470.
 progenitor n. sp., Newberry, 4080.
 recurvatum (Lesq.) Newb., Newberry, 4083.
 subintegrifolium Lesq., Lesquereux, 3470.
 (Araliopsis) *cretaceum* Newb., var. *Grosse-dentatum* Lesq., n. var. Lesquereux, 3470.
 dissectum Lesq., Lesquereux, 3470.
 (Araliopsis) *dissectum symmetricum* n. var. Hollick, 2681.
 papillosum n. sp., Lesquereux, 3470.
Sauranodon natans, Marsh, 3695.
Saurocephalus dentatus n. sp., Stewart, 5237.
 lanciformis, Hay, 2383.
 pamphagus n. sp., Hay, 2383.
Saurodon ferox n. sp., Stewart, 5239.
 xiphrostris n. sp., Stewart, 5239.
Sauropoleura latithorax n. sp., Cope, 1103.
Sauropoda, Marsh, 3717.
Saxicava Fleuriau de Bellevue, Dall, 1272.
 arctica Linné, Dall, 1272.
 billneata, Whitfield, 6101.
 myæformis, Whitfield, 6101.
 paralis, Whitfield, 6101.
Saxinis regularis n. sp., Scudder, 4900.
Sbenaphis Scudder, Scudder, 4895.
 quesneli, Scudder, 4895.
Scævogyra Whitfield, 1878, Berkeley, 429.
 minnesotensis n. sp., Berkeley, 429.
Scala, Harris, 2316.
 exquisita n. sp., Aldrich, 74.
 exquisita, Ald., Harris, 2316.
 galvestonensis n. sp., Harris, 2309.
 octolineata Con., Aldrich, 74.
 unilineata, Aldrich, 74.
 virginiana n. sp., Clark, 904, 906.
 (Opalia) H. and A. Adams, Dall, 1259.
 de-bouryi Dall, Dall, 1259.
 (Stemorytis) *stearnsii*, Dall, 1259.
 sp., Harris, 2310.
Scalaria hercules n. sp., Whitfield, 6097.
 multistriata, Whitfield, 6101.
 pauperata n. sp., Whitfield, 6097.
 sillimani, Whitfield, 6097.
 tenuilata n. sp., Whitfield, 6097.
 (Opalia) *thomasi* ?, Whitfield, 6097.
Scalaripora, Simpson, 4983.
Scalarituba missouriensis n. gen. et. sp., Weller, 5994.
Scapanorhynchus raphiodon, Williston, 6259.
Scaphander Montfort, Dall, 1259.

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- Scaphander alabamensis* n. sp., Aldrich, 73.
alabamensis Ald., Harris, 2316.
floridana Heilprin, Dall, 1259.
langdoni n. sp., Dall, 1269.
ligniticus n. sp., Aldrich, 74.
ligniticus Ald., Harris, 2316.
primus Ald., Aldrich, 73.
primus Aldrich, Dall, 1259.
- Scapharea subrostrata*, Whitfield, 6101.
subrostrata Conrad, Dall, 1272.
 (Anadara) *aresta* n. sp., Dall, 1272.
campsa n. sp., Dall, 1272.
catasarca n. sp., Dall, 1272.
elisea n. sp., Dall, 1272.
rustica Tuomey and Holmes, Dall, 1272.
 (Argina) *tolepis* n. sp., Dall, 1272.
campechensis Dillwyn, Dall, 1272.
 (Bathysarea) *hendersoni* n. sp., Dall, 1272.
spenceri n. sp., Dall, 1272.
 (Cunearea) *alcima* n. sp., Dall, 1272.
cumanensis, Dall, 1272.
incongrua Say, Dall, 1272.
initiator n. sp., Dall, 1272.
scalarina Heilprin, Dall, 1272.
scalaris Conrad, Dall, 1272.
 (Scapharea) *acompsa* n. sp., Dall, 1272.
actinophora n. sp., Dall, 1272.
arata Say, Dall, 1272.
auriculata Lamarek, Dall, 1272.
callicestosa n. sp., Dall, 1272.
campyla n. sp., Dall, 1272.
carolinensis Wagner, Dall, 1272.
chiriquiensis Gabb, Dall, 1272.
dodona n. sp., Dall, 1272.
donacia n. sp., Dall, 1272.
halidonata n. sp., Dall, 1272.
hypomeia n. sp., Dall, 1272.
idonea Conrad, Dall, 1272.
improcera Conrad, Dall, 1272.
inequilateralis Guppy, Dall, 1272.
latidentata, Dall, 1272.
lesueuri Dall, Dall, 1272.
lineosa Say, Dall, 1272.
plicatura Conrad, Dall, 1272.
santarosana n. sp., Dall, 1272.
staminata n. sp., Dall, 1272.
staminea Say, Dall, 1272.
subsnuata Conrad, Dall, 1272.
traversa Say, Dall, 1272.
triphora n. sp., Dall, 1272.
- Scaphella demissa* Con. var., Harris, 2316.
heilprini, Harris, 2316.
showalteri, Harris, 2310.
trenholmii Tuomey and Holmes, Dall, 1259.
 (Aurinia) *mutabilis* Conrad, Dall, 1259.
virginiana Conrad, Dall, 1259.
 (Aurinia?) *striata* Gabb, Dall, 1259.
 (Caricella) *leana* Dall, Dall, 1259.
podagrina, Dall, 1259.
subangulata Conrad, Dall, 1259.
 sp., Harris, 2310.
- Scaphiocella* Whitfield, Hall and Clarke, 2261a.

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- Scaphiocerinus arboreus* Worthen, Springer, 5163.
arrosus n. sp., Miller and Gurley, 3997a.
bellus n. sp., Miller and Gurley, 3991.
bonoensis n. sp., Miller and Gurley, 3991.
borbyi n. sp., Miller, 3992.
lacunosus n. sp., Miller and Gurley, 3991.
lyoni n. sp., Miller, 3995.
maniformis n. sp., Miller, 3995.
manus n. sp., Miller and Gurley, 3991.
martinensis n. sp., Miller and Gurley, 3997a.
missouriensis (Shumard), Keyes, 3061.
missouriensis Shumard, Springer, 5163.
notatus n. sp., Miller and Gurley, 4000.
præmorsus n. sp., Miller and Gurley, 3991.
reptus n. sp., Miller and Gurley, 3991.
robustus (?) Hall, Miller, 3992.
rusticellus (White), Keyes, 3061.
samsoni n. sp., Miller, 3992.
swallowi, Springer, 5163.
unicus Hall, Springer, 5163.
 ? *washburni* n. sp., Beede, 397.
 sp., Girty, 2038.
- Scaphites*, Hyatt, 2819.
Scaphites, Logan, 3555.
hippocrepis, Whitfield, 6097.
iris, Whitfield, 6097.
larvaformis M. and H., Logan, 3554.
larvaformis Meek and Hayden, Stanton, 5191.
mullananus M. and H., Logan, 3554.
mullananus M. and H., Stanton, 5191.
nodosus, Logan, 3555.
nodosus, Whitfield, 6097.
reniformis, Whitfield, 6097.
septem-seriatus n. sp., Cragin, 1115.
similis n. sp., Whitfield, 6097.
ventricosus M. and H., Logan, 3554.
ventricosus M. and H., Stanton, 5191.
vermiformis M. and H., Logan, 3554.
vermiformis M. and H., Stanton, 5191.
warreni M. and H., Logan, 3554.
warreni M. and H., Stanton, 5191.
warreni M. and H., Stanton, 5191.
- Scaphognathus*, Case, 768.
Scenella Billings, Matthew, 3790.
Scenella, Ulrich and Scofield, 5541.
affinis n. sp., Ulrich and Scofield, 5541.
beloitensis n. sp., Ulrich and Scofield, 5541.
compressa n. sp., Ulrich and Scofield, 5541.
magnifica n. sp., Ulrich and Scofield, 5541.
obtus Sardeson, Ulrich and Scofield, 5541.
radialis n. sp., Ulrich and Scofield, 5541.
reticulata Billings, Grabau, 2092.
cf. reticulata, Bill., Matthew, 3790.
cf. retusa, Ford, Matthew, 3790.
superba Billings, Ulrich and Scofield, 5541.
 (?) sp., Grabau, 2092.
- Scenellopora*, Simpson, 4983.
Scenidium Hall, Hall and Clarke, 2260.
Scenidium, Hall, Winchell, and Schuchert, 6319.
anthonensis Sardeson, Winchell, and Schuchert, 6319.

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Genera and species described—Continued.

- Scenophyllum, n. gen., Simpson, 4984.
 Sceptropora, Simpson, 4983.
 Schapites larvæformis, M. and H., Herrick and Johnson, 2465.
 mullanaus, M. and H., Herrick and Johnson, 2465.
 ventricosus, M. and H., Herrick and Johnson, 2465.
 vermiformis, M. and H., Herrick and Johnson, 2465.
 warreni, M. and H., Herrick and Johnson, 2465.
 Schizophoria striatula (Schlotheim) Schuchert, Girty, 2039.
 Schizambon Walcott, Hall and Clarke, 2260.
 Schizambon Walcott, Winchell and Schuchert, 6319.
 ? dodgii n. sp., Winchell and Schuchert, 6319.
 ? lockii n. sp., Winchell and Schuchert, 6319.
 Schizaster lecontei n. sp., Merriam, 3922.
 Schizoblastus savi (Shumard), Keyes, 3062.
 Schizobolus Ulrich, Grabau, 2086.
 Schizobolus Ulrich, Hall, and Clarke, 2260.
 truncatus Hall, Grabau, 2086.
 Schizocrania Hall and Whitfield, Hall and Clarke, 2260.
 Schizocrania Hall and Whitfield, Winchell and Schuchert, 6319.
 filosa Hall, Winchell and Schuchert, 6319.
 helderbergia n. sp., Hall and Clarke, 2260.
 (?) helderbergia, Hall and Clarke, 2268.
 schucherti n. sp., Hall and Clarke, 2260, 2268.
 Schizodus King, Girty, 2037.
 Schizodus King, Grabau, 2086.
 aequalis Hall, Weller, 5994.
 affinis Herrick, Girty, 2037.
 appressus (Conrad), Grabau, 2086.
 batesvillensis n. sp., Weller, 5986.
 binumbonata cf. æquimarginalis Winchell, Lane, 3400.
 burlingtonensis n. sp., Weller, 6006.
 chesterensis, Whitfield, 6099.
 cuneatus Meek, Smith, 5046.
 depressus Worthen (?), Weller, 5986.
 harii n. sp., Miller, 3992.
 harii Miller, Keyes, 3062.
 insignis n. sp., Drake, 1539.
 iowensis n. sp., Weller, 6006.
 meekanus n. sp., Girty, 2037.
 pandatus n. sp., Girty, 2037.
 sedaliensis n. sp., Miller and Gurley, 4002.
 telliniformis n. sp., Girty, 2037.
 triangularis Herrick, Lane, 3400.
 wheeleri (Swallow), Keyes, 3062.
 wheeleri Swallow, Smith, 5046.
 ? sp., Weller, 5986.
 Schizolepis liaso-keuperina Friedrich Braun, Ward, 5857.
 Schizolopha Ulrich, Ulrich and Scofield, 5541.
 moorei n. sp., Ulrich and Scofield, 5541.
 textilis n. sp., Ulrich and Scofield, 5541.
 Schizoneura planicostata (Rogers) Fontaine ?, Ward, 5857.

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Genera and species described—Continued.

- Schizopholis Waagen, Hall and Clarke, 2260.
 Schizophoria King, Hall and Clarke, 2260.
 swalovi (Hall), Weller, 5994, 6006.
 Schizotreta Kutorga, Hall and Clarke, 2260.
 Schizotreta Kutorga, Winchell and Schuchert, 6319.
 minutula n. sp., Winchell and Schuchert, 6319.
 pelopea Billings sp., Winchell and Schuchert, 6319.
 Schloebachia cf. inflata (Sowerby), Aguilera, 57.
 leonensis Con., Cragin, 1115.
 peruviana Von B., Cragin, 1115.
 peruviana, Stanton, 5197.
 woolgari Mantell, Cragin, 1115.
 Schmidtella Ulrich, Ulrich, 5540.
 affinis n. sp., Ulrich, 5540.
 brevis n. sp., Ulrich, 5540.
 cambrica n. sp., Matthew, 3761.
 crassimarginata n. gen. et sp., Ulrich, 5532, 5540.
 incompta n. sp., Ulrich, 5540.
 subrotunda n. sp., Ulrich, 5540.
 unbonata n. sp., Ulrich, 5540.
 Schmidtia Volborth, Hall and Clarke, 2260.
 Schenaster legrandensis n. sp., Miller and Gurley, 3991.
 Schoenophyllum, n. gen., Simpson, 4984.
 Schroederoceras angulatum, Hyatt, 2819.
 bandonis, Hyatt, 2819.
 casinensis, Hyatt, 2819.
 damesi, Hyatt, 2819.
 denckelmanni, Hyatt, 2819.
 eatoni, Hyatt, 2819.
 raospira, Hyatt, 2819.
 saemanni, Hyatt, 2819.
 teres, Hyatt, 2819.
 tubulatum n. sp., Hyatt, 2819.
 Sciabregma n. gen., Seudder, 4890.
 rugosa, Seudder, 4890.
 Scintilla clarkeana n. sp., Aldrich, 74.
 clarkeana, Harris, 2313.
 Sciponoceras, Hyatt, 2819.
 Sciurus calycinus Cope, Cope, 1104.
 Scleropteris distantifolia n. sp., Fontaine, 1850.
 rotundifolia n. sp., Fontaine, 1850.
 vernonensis n. sp., Ward, 5846.
 Scoleophagus affinis n. sp., Shufeldt, 4960.
 Scolithus, cf. S. linearis Hall, Grabau, 2092.
 Sentella gabbi Rémond, Merriam, 3922.
 interlineata Stimpson, Merriam, 3922.
 Scutellaster cretaceus n. gen. et sp., Cragin, 1120.
 Seyllium planidens n. sp., Williston, 6259.
 rugosum n. sp., Williston, 6259.
 (Lamna ?) gracilis n. sp., Williston, 6259.
 Seyphomya Dall, Dall, 1272.
 Seyphophorus fossilis, Seudder, 4890.
 lævis, Seudder, 4890.
 Seytalocrinus hoveyi Worthen, Springer, 5163.
 validus, Springer, 5163.
 vanhornei Worthen, Springer, 5163.
 Scythropus somniciosus, Seudder, 4890.

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- Seythropus subterraneus, Seudder, 4890.
 Scytalocrinus vanhornei (Worthen), Keyes, 3661.
 Seelya n. gen., Ulrich and Seofield, 5541.
 mundula n. sp., Ulrich and Seofield, 5541.
 Selaginella faleata, Lx., emend, Knowlton, 3264.
 Selc'nella n. gen., Hall and Clarke, 2261a.
 gracilis, Hall and Clarke, 2261a, 2268.
 lacinia Lx., Knowlton, 3264.
 Selenopora, Simpson, 4983.
 Semaeostomites zitteli Haeckel, Walcott, 5811.
 Semele Schumacher, Dall, 1281.
 alumensis n. sp., Dall, 1281.
 bella Conrad, Dall, 1281.
 bellastriata Conrad, Dall, 1281.
 burnsii Whitfield, Dall, 1281.
 carinata Conrad, Dall, 1281.
 chipolana n. sp., Dall, 1281.
 cythereoidea n. sp., Dall, 1281.
 leana n. sp., Dall, 1281.
 mutica n. sp., Dall, 1281.
 nuculoidea Conrad, Dall, 1281.
 perlamellosa Heilprin, Dall, 1281.
 proficua Pulteney, Dall, 1281.
 purpurascens Gmelin, Dall, 1281.
 subovata Say, Dall, 1281.
 silicata n. sp., Dall, 1281.
 smithii n. sp., Dall, 1281.
 Semicoscinium, Simpson, 4983.
 Seminula bisinuata n. sp., Rowley, 4677a.
 dawsoni n. sp., Hall and Clarke, 2261a, 2263, 2268.
 humilis n. sp., Girty, 2038.
 immatura n. sp., Girty, 2038.
 madisonensis n. sp., Girty, 2038.
 var. pusilla n. var., Girty, 2038.
 rogersi n. sp., Hall and Clarke, 2261a, 2263, 2268.
 see Athyris (Seminula) McCoy, Hall and Clarke, 2261.
 Semipora, Simpson, 4983.
 Septopora, Simpson, 4983.
 biserialis (Swallow), Keyes, 3062.
 Sequoia angustifolia ? Lx., Knowlton, 3246.
 brevifolio Heer, Knowlton, 3264.
 couthie Heer, Knowlton, 3255, 3262.
 gracilis Heer, Fontaine, 1850.
 gracillima (Lesq.) Newb., Newberry 4080, 4083.
 heerii Lesq., Newberry, 4083.
 heterophylla Vel., Newberry, 4080.
 langsdorffii Heer, Dawson, 1436.
 langsdorffii (Brongn.) Heer, Knowlton, 3255.
 langsdorffii (Brongniart) Heer, Knowlton, 3232, 3262.
 magnifica n. sp., Knowlton, 3255.
 nordenskioldii Heer?, Newberry, 4083.
 pagiophylloides n. sp., Fontaine, 1846, 1847.
 reichenbachii (Geinitz) Heer, Fontaine, 1850.
 reichenbachii (Gein.) Heer, Hollick, 2698.
 reichenbachii (Gein.) Heer (?), Newberry, 4080.

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- Sequoia spinosa Newberry, Knowlton, 3232.
 spinosa Newb., Newberry, 4083.
 winchelli n. sp., Lesquereux, 3472.
 sp. Fontaine, 1850.
 sp. Knowlton, 3264.
 Serpula granifera, Say, 4813.
 intrica White, Logan, 3554.
 intrica White, Stanton, 5191.
 paluxiensis n. sp., Hill, 2539.
 plana n. sp., Logan, 3554.
 tenuicarinata M. & H., Logan, 3554.
 sp. Clark, 906.
 Serpulites dissolutus Billings, Whiteaves, 6087.
 longissimus n. var., Ami, 88.
 Serpularius ballistæ, Dall (granifera var.), Dall, 1259.
 granifera tenera Dall, Dall, 1259.
 sylværupis n. sp., Harris, 2316.
 Serrifusus crosswickensis n. sp., Whitfield, 6097.
 (Lirofusus) nodocarinatus n. sp., Whitfield, 6097.
 Serripes Beck, Dall, 1281.
 grönländicus Beck, Dall, 1281.
 laperousii Deshayes, Dall, 1281.
 Shastisaurus pacificus n. sp., Merriam, 3915.
 Shumardocrinus n. gen., Miller and Gurley, 3998.
 concinnus Shumard, Miller and Gurley, 3998.
 Sibynus whitneyi, Seudder, 4890.
 Siderastrea hexagonalis, n. sp., Vaughan, 5735.
 Sieberella Oehlert, Hall and Clarke, 2261a, 2264.
 roemerii, Hall and Clarke, 2268.
 Sigaretus bilix Con., Harris, 2316.
 chipolanua n. sp., Dall, 1259.
 costatus n. sp., Cooper, 1072.
 declivis Con., Harris, 2315, 2316.
 multiplicatus n. sp., Dall, 1259.
 textilis n. sp., Stanton, 5191.
 (Eumaticina) textiles, Stanton, Herriek and Johnson, 2465.
 (Sigaticus) clarkeanus Ald., Aldrich, 73.
 Sigallaria, Dawson, 1455.
 Sigallaria Brongn., White, 6040.
 sigallarioides (Lx.) White, 6050.
 (Asolanus) campptotania, H. C. Wood, White, 6050.
 Sigmogomphius lecontei n. gen. et sp., Merriam, 3917.
 Siliqua Megerle, Dall, 1281.
 huerfanensis, Stanton, Herriek and Johnson, 2465.
 huerfanensis n. sp., Stanton, 5191.
 nuttallii Conrad, Dall, 1281.
 (patula Dixon var.?) oregonia, Dall, Dall, 1281.
 simondsi n. sp., Harris, 2307.
 subequalis Gabb, Dall, 1281.
 Siliquata pauperata n. sp., Whitfield, 6097.
 Silpha colorata n. sp., Seudder, 4900.
 Siphon erecta n. sp., Aldrich, 73.
 ? erecta Ald., Harris, 2315.
 tuomeyi Ald., Harris, 2316.

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- Siphonalia jacksonia*, n. sp., Harris, 2311.
lineata n. sp., Stanton, 5198.
subscalarina Heilp., Harris, 2316.
 sp., Harris, 2316.
Siphonaria capuloides n. sp., Cooper, 1071.
Siphonocetus clarkianus n. sp., Cope, 1096.
Siphonocrinus S. A. Miller, Weller, 6002.
nobilis Hall, Weller, 6002.
Siphonotreta de Verneuil, Hall and Clarke 2260.
Siphonotreta de Verneuil, Winchell and Schuchert, 6319.
minnesotensis n. sp., Hall and Clarke, 2260.
 ? *minnesotensis* Hall, Winchell and Schuchert, 6319.
 (?) *minnesotensis*, Hall and Clarke, 2268.
Sistrum (*Ricinus*?) *cretaceum* n. sp., Cooper, 1072.
Sitona exitiorum, Scudder, 4890.
fodinarum, Scudder, 4890.
paginarum, Scudder, 4890.
Smicrorhynchus n. gen., Scudder, 4890.
macgeei, Scudder, 4890.
Smilax cyclophylla Newb., Newberry, 4083.
grandifolia-cretacea n. sp., Lesquereux, 3470.
lamarensis, n. sp., Knowlton, 3255.
undulata, n. sp., Lesquereux, 3470.
Smilodon gracilis Cope, Cope, 1093.
mercerii Cope, Cope, 1104.
 (syn. *Dinobastis* Cope), Adams, 38.
Solariella alabamensis, Harris, 2310.
altiuscula n. sp., Guppy and Dall, 2214.
louisiana n. sp., Dall, 1259.
louisiana Dall, Harris, 2316.
sylværupis, n. sp., Harris, 2311.
turritella n. sp., Dall, 1259.
Solariorbis clypeatus n. sp., Guppy and Dall, 2214.
subangulatus Meyer var., Aldrich, 74.
Solarium alabamense, Harris, 2310.
amphitermum n. sp., Dall, 1259.
bastropensis n. sp., Harris, 2307.
bellense n. sp., Harris, 2315, 2316.
chiakasense n. sp., Cragin, 1118.
cupola Heilp., Harris, 2316.
elaboratum Con., Harris, 2316.
 var. *delphinuloides* Heilp., Harris, 2316.
 var. *intusum* n. var., Harris, 2316.
elaboratum vir *bimixta* Aldrich, 72.
huppertzi n. sp., Harris, 2307.
huppertzi var. *Har.*, Harris, 2311, 2316.
greggi n. sp., Harris, 2311, 2316.
leanum Dall, Harris, 2316.
periscelidum, Harris, 2310.
planiforme n. sp., Aldrich, 72.
sylværupis n. sp., Harris, 2311, 2316.
 sp., Clark, 906.
 sp., Harris, 2310.
 sp.?, Guppy and Dall, 2214.
Solecardia Conrad, Dall, 1281.
 (*Spaniorinus*) *cossmanni* n. sp., Dall, 1281.
Solecortus (Blainville), Dall, 1281.

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Genera and species described—Continued.

- Solecortus* (?) *dubius* n. sp., Stanton, 5199.
Solemya alabamensis n. sp., Harris, 2313.
 ? *obscura*, Stanton, Herriek and Johnson, 2465.
 ? *obscura* n. sp., Stanton, 5191.
occidentalis n. sp., Stanton, 5199.
petricoloides (Lea), Lark, 906.
Solen Linné, Dall, 1281.
amphistemma n. sp., Dall, 1281.
conradi Dall, 1281.
rosaceus Carpenter, Dall, 1281.
sicarius Gould, Dall, 1281.
viridis Say, Dall, 1281.
 (*Plectosolen*) *lisbonensis* Aldrich, Dall, 1281.
protectus Conrad, Dall, 1281.
 var. *abruptus* Dall, Dall, 1281.
 sp., Harris, 2313.
Soleniscus Meek and Worthen, Keyes, 3062.
brevis (White), Keyes, 3062.
gracilis (Cox) Keyes, 3062.
missouriensis (Swallow), Keyes, 3062.
newberryi (Stevens), Keyes, 3062.
paludinaeformis (Hall), Keyes, 3062.
Solenochilus blairi n. sp., Miller, 3995.
collectus, Hyatt, 2816.
kentuckiensis n. sp., Hyatt, 2816.
rockfordense n. sp., Miller, 3992.
Solenomya parallela n. sp., Beede and Rogers, 396.
Solenopleura arenosa Bill. sp., Matthew, 3776.
 var. *angilimbata* n. var., Matthew, 3776.
robbi, Beecher, 366.
robbii Hartt mut. *parva*, Matthew, 3776.
 ? *weedi*, Walcott, 5816.
Solenopora compacta Billings, Ami, 79.
compacta Billings, Winchell and Schuchert, 6318.
Solenopsis solenoides (Geinitz), Keyes, 3062.
Solenospira n. gen., Ulrich and Scofield, 5541.
pagoda Salter, Ulrich and Scofield, 5541.
pagoda Salter var. *occidentals*, Whitcaves, 6087.
prisea Billings, Ulrich and Scofield, 5541.
Solenosteira inornata n. sp., Dall, 1259.
mengeana n. sp., Dall, 1259.
Somphospongia n. gen., Beede, 394.
multiformis n. sp., Beede, 394.
Spathella subelliptica n. sp., Whiteaves, 6074.
ventricosa (W. and W.), Weller, 6006.
Spathyema? *nevadensis* n. sp., Knowlton, 3263.
Spatiopora Ulrich, Ulrich, 5537.
iowensis n. sp., Ulrich, 5537.
labeculosa n. sp., Ulrich, 5537.
Spermotodus pustulosus n. gen. et sp., Cope, 1093.
Spermophagus vivificatus, Scudder, 4900.
Sphaerella (?) *anteproducta* n. sp., Harris, 2307.
 sp., Harris, 2313.
Sphaerexochus pisum n. sp., Foerste, 1835.
Sphaeria problematica n. sp., Lesquereux, 3470.
Sphaerium simile Say, Baker, 217.

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- Sphærobolus n. gen. prov., Matthew, 3767.
 spissus (Billings), Grabau, 2092.
 spissus, Matthew, 3767.
 Sphærodoma littonana (Hall), Keyes, 3062.
 medialis (Meek and Worthen), Keyes, 3062.
 pinguis (Win.), Weller, 6006.
 ponderosa (Swallow) Keyes, 3062.
 primogenia (Conrad), Keyes, 3062.
 Sphærophthalmus alatus Boeck, var. canadensis, n. var., Matthew, 3751.
 Sphagiopora, Simpson, 4983.
 Sphenia Turton, Dall, 1272.
 attenuata n. sp., Dall, 1272.
 Sphenocælus uintensis, Osborn, 4190.
 Sphenodiscus belviderensis Cragin, Cragin, 1132.
 var. mons clavatus, Cragin, 1132.
 comancheanus, Cragin, 1132.
 dumblii n. sp., Cragin, 1115.
 emarginatus n. sp., Cragin, 1115.
 lenticularis Owen, Cragin, 1115.
 mentorianus, Cragin, 1132.
 roemeri n. sp., Cragin, 1115.
 serpentinus, Cragin, 1132.
 uddeni, Cragin, 1132.
 Sphæruacarina felixi n. sp., Boehm, 503a.
 lenki n. sp., Boehm, 503a.
 occidentalis Conrad sp., Boehm, 503a.
 Sphenolepidium kurrianum (Dunker) Heer, Fontaine, 1850.
 pachyphyllum?, Dawson, 1434.
 parceramosum Fontaine, Fontaine, 1850.
 sternbergianum var. densifolium Font., Fontaine, 1846, 1847.
 sternbergianum (Dunk.) Heer, Ward, 5846.
 Sphenolium S. A. Miller, Ulrich, 5539.
 cuneiforme S. A. Miller, Miller and Faber, 3997.
 parallelum n. sp., Ulrich, 5539.
 striatum n. sp., Ulrich, 5539.
 Sphenophyllum Brongiart, White, 6040.
 bifurcatum Lx., White, 6052.
 cuneifolium (Stb.) Zeill., White, 6049, 6052.
 euneifolium (Sternb.) Zeill., White, 6040.
 emarginatum Brongn., White, 6050.
 lesenianum n. sp., White, 6050.
 majus Brongn., White, 6040, 6050.
 suspectum n. sp., White, 6049.
 tenerrimum Ett. var. elongatum n. var., White, 6052.
 tenue n. sp., White, 6052.
 (Asterophyllites?) fasciculatum (Lx.), White, 6050.
 Sphenopteris asplenoides Sternb., White, 6022.
 brittsii Lx., White, 6050.
 canneltensis n. sp., White, 6050.
 capitata n. sp., White, 6050.
 chærophylloides (Brongn.) Presl., White, 6050.
 corrugata Newb., Newberry, 4083.
 cristata (Brongn.) Presl., White, 6050.

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- Sphenopteris dadeana n. sp., White, 6052.
 (diplothema) fureata Brongn., White, 6052.
 divaricata (Goepp.) Gein and Gutb., White, 6052.
 egyptiaca Emmons, Ward, 5857.
 grevillioides Heer, Ward, 5846.
 harttii Dn., Ward, 6052.
 hildrethi Lx., White, 6050.
 illinoisensis n. sp., White, 6050.
 kaercheri n. sp., White, 6052.
 lacoei n. sp., White, 6040.
 lacoei D. W., White, 6050.
 laliloba?, Dawson, 1434.
 macilenta L. and H., White, 6040.
 microcarpa Lx., Ward, 6052.
 missonriensis n. sp., White, 6050.
 mixta Schimp., White, 6050.
 patentissima (Ett.) Schimp., White, 6052.
 pilosa Dn., White, 6052.
 pinnatifida (Lx.), White, 6050.
 plurinervia Heer?, Fontaine, 1850.
 royi Lx., White, 6052.
 subcrenulata (Lx.), White, 6050.
 suspecta n. sp., White, 6050.
 taffiin. sp., White, 6049.
 valdensis Heer?, Fontaine, 1847.
 valdensis Heer, Fontaine, 1846.
 van ingeni n. sp., White, 6050.
 wardiana, n. sp., White, 6050.
 (Crossothea) ophioglossoides (Lx.), White, 6050.
 (Hymenotheca) broadheadi n. sp., White, 6050.
 (Pseudoplectopteris) obtusiloba Brongn., White, 6040.
 sp., White, 6050.
 Sphenotrochus claibornensis n. sp., Vaughan, 5735.
 nanus (Lea), Vaughan, 5735.
 Sphenotus Hall, Grabau, 2086.
 æolus Hall, Lane, 3400.
 bicarinatus (Win.), Weller, 6006.
 bicostatus n. sp., Weller, 6006.
 bodenbenderi n. sp., Clarke, 976.
 gorgeixi n. sp., Clarke, 976.
 iowensis (Win.), Weller, 6006.
 rigidus (W. and W.), Weller, 6006.
 sinuatus n. sp., Miller and Gurley, 4002.
 truncatus (Conrad), Grabau, 2086.
 Sphenozamites rogersianus Fontaine, Ward, 5857.
 Spiladomyia Scudder, Scudder, 4894.
 simplex, Scudder, 4894.
 Spiraxis Major, James, 2894.
 randalli, James, 2894.
 Spirialis choctawensis Ald., Harris, 2316.
 elongatoidea Ald., Aldrich, 73.
 elongatoidea Ald., Harris, 2316.
 Spirifer Sowerby, Grabau, 2086.
 Spirifer Sowerby, Hall and Clarke, 2264.
 angustus Hall, Grabau, 2086.
 arenosus Conrad, Clarke, 971.
 asper Hall, Grabau, 2086.
 audaculus (Conrad), Grabau, 2086.

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- Spirifer audaculus* var. *cato* Hall, Grabau, 2086.
biblicatus Hall, Weller, 6006.
bimesialis Hall?, Girty, 2039.
cameratus Morton, Beede, 387.
canandaigua n. sp., Hall and Clarke, 2261a, 2263, 2268.
carinatus, n. sp., Rowley, 4677a.
centronatus Winchell, Girty, 2038.
 var. *semifurcatus* n. var., Girty, 2038.
coniculus n. sp., Girty, 2039.
cosobrinus d'Orbigny, Grabau, 2038.
crispatus n. sp., Hall and Clarke, 2261a, 2263, 2268.
deltoidens Herrick, Lane, 3400.
disjunctus var. *animasensis* n. var., Girty, 2039.
disjunctus var. *sulifer* n. var., Hall and Clarke, 2261a, 2263, 2268.
engelmanni Meek, Girty, 2038.
granulosus (Conrad), Grabau, 2086.
 var. *clintoni* Hall, Grabau, 2086.
grimesi Hall, Herrick and Johnson, 2465.
huronensis Win., Lane, 3400.
imbrex, Herrick and Johnson, 2465.
insculptus n. sp., Rowley, 4677a.
keokuk Hall, Weller, 5986.
louisianensis n. sp., Rowley, 4677a.
macronotus Hall, Grabau, 2086.
marionensis Shumard (?), Girty, 2038.
marionensis Shumard, Weller, 5994.
medialis Hall, Lane, 3400.
mucronatus Conrad, Grabau, 2076.
mucronatus var. *posterus* n. var., Hall and Clarke, 2261a, 2263, 2268.
murchisoni Castelnau, Clarke, 971.
newberryi, Hall and Clarke, 2261a, 2263, 2268.
rockymontanus Marcou, Girty, 2037.
saffordi Hall, Clarke, 971.
schucherti n. sp., Rowley, 4677a.
striatus Martin, Herrick and Bendrat, 2464.
striatus var. *madisonensis* n. var., Girty, 2038.
subattenuatus Hall, Girty, 2038.
subattenuatus, Hall?, Lane, 3400.
subrotundatus Hall, Weller, 6006.
tullius Hall, Grabau, 2086.
williamsi n. sp., Hall and Clarke, 2261a, 2263, 2268.
(Cyrtia Dalman), Hall and Clarke, 2264.
(Delthyris) sculptilis (Hall), Grabau, 2086.
(Martinia) subumbonatus Hall, Grabau, 2086.
(Reticularia) fimbriatus (Conrad), Grabau, 2086.
 sp. Girty, 2038.

- Spirifera aciculifera* n. sp., Rowley, 4673.
camerata Morton, Keyes, 3062.
forbesi Norwood and Pratten, Keyes, 3062.
grimesi Hall, Keyes, 3062.
 (cf. *Athyris*) *insolita*, Lane, 3400.
keokuk Hall, Keyes, 3062.
lineatoides Swallow, Keyes, 3062.

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Genera and species described—Continued.

- Spirifera macbridei*, Calvin, 690.
maia, Whitfield, 6099.
marionensis Shumard, Keyes, 3062.
mundula n. sp., Rowley, 4673.
parryana Hall, Keyes, 3062.
planocconvexus Shumard, Keyes, 3062.
plicatella, Whiteaves, 6080.
rockymontana? Whitfield, 6099.
urbana, Calvin, 690.
vanuxemi, Whitfield, 6099.
ziczac, Whitfield, 6099.
 (Martinia) contracta, Whitfield, 6099.
 (Martinia) lineata, Whitfield, 6099.
Spiriferina d'Orbigny, Hall and Clarke, 2261, 2264.
 solidirostris White, Girty, 2038.
Spirigerella, see *Athyris* (*Spirigerella*) Waagen, Hall and Clarke, 2261.
Spirillina orbicularis n. sp., Bagg, 148.
Spiroloculina planulata, Bagg, 148.
Spirophyton, Udden, 5512.
 typum, James, 2895.
 sp., Weller, 5994.
Spiroplecta americana Ehrenberg, Woodward and Thomas, 6433.
 clarki n. sp., Bagg, 143, 145, 148.
Spirorbis Lamarek, Grabau, 2086.
 angulatus Hall, Grabau, 2086.
 anthracosia, Whitfield, 6099.
 assimilis n. sp., Clarke, 971.
 blairi n. sp., Miller and Gurley, 3998.
Spisula Gray, Dall, 1272.
 (?) *quadricentennialis* Harris, Dall, 1265.
 (Hemimactra) Swainson, Dall, 1272.
 curtidens n. sp., Dall, 1272.
 delumdis Conrad, Dall, 1272.
 densa n. sp., Dall, 1272.
 dodona n. sp., Dall, 1272.
 duplinensis n. sp., Dall, 1272.
 magnoliana n. sp., Dall, 1272.
 marylandica n. sp., Dall, 1272.
 subponderosa d'Orbigny, Dall, 1272.
 (Cymbophora) Gabb, Dall, 1272.
 (Leptospisula) Dall, Dall, 1272.
 (Schizodesma) Gray, Dall, 1272.
Spodotribus n. gen., Seudder, 4890.
 terrulentus, Seudder, 4890.
Spondylobolus McCoy, Hall and Clarke, 2260.
 hilli n. sp., Cragin, 1115.
Spondylus bostrychites Guppy, Dall, 1272.
 dumosus Morton, Dall, 1272.
 echinatus Martyn, Dall, 1272.
 fragilis n. sp., Stanton, 5199.
 inornatus n. sp., Whitfield, 6101.
 rotundatus Heilprin, Dall, 1272.
 sp., Harris, 2313.
Spongurus, Matthew, G. F., 3760.
Sporangites huronensis Dawson (?) Girty, 2035.
 radiatus n. sp., Duden, 1554.
Sportella Deshayes, Dall, 1281.
 compressa H. C. Lea, Dall, 1281.
 constricta Conrad, Dall, 1281.
 gregorioi Coss., Aldrich, 74.
 lioconcha n. sp., Dall, 1281.

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- Sportella* (?) *lubrica* n. sp., Dall, 1281.
obolus n. sp., Dall, 1281.
pelex n. sp., Dall, 1281.
petropolitana n. sp., Dall, 1281.
protexta Conrad, Dall, 1281.
unicarinata n. sp., Dall, 1281.
whitfieldi Dall, 1281.
yorkensis n. sp., Dall, 1281.
Squama n. gen., Logan, 3553, 3554.
lata n. sp., Logan, 3553, 3554.
spissa n. sp., Logan, 3553, 3554.
Stachella Waagen, Ulrich and Scofield, 5541.
Stagodon validus n. sp., Marsh, 3671.
Sandella Gray, Dall, 1272.
 (Eastonia) Gray, Dall, 1272.
Staphylinus lesleyi n. sp., Seudder, 4900.
vetulus n. sp., Seudder, 4900.
Staurasphera, Matthew, G. F., 3760.
Stearoceras n. gen., Hyatt, 2816.
gibbosum, Hyatt, 2816.
gibbosum Hyatt, Girty, 2037.
Steganoblastus canadensis, Whiteaves, 6091.
Steganocrinus Meek and Worthen, Wachsmuth and Springer, 5765a.
Steganocrinus albersi n. sp., Miller and Gurley, 4003.
araneolus Meek and Worthen, Wachsmuth and Springer, 5765a.
araneolus sculptus (Meek and Worthen), Keyes, 3061.
benedicti n. sp., Miller, 3995.
blairi n. sp., Miller and Gurley, 4003.
coneinnus Shumard, Keyes, 3061.
coneinnus (Shumard), Wachsmuth and Springer, 5765a.
globosus W. and Sp. (nov. spec.), Wachsmuth and Springer, 5765a.
griffithi n. sp., Miller and Gurley, 4003.
pentagonus (Hall), Keyes, 3061.
pentagonus (Hall), Wachsmuth and Springer, 5765a.
sculptus (Hall), Wachsmuth and Springer, 5765a.
sharonensis n. sp., Miller and Gurley, 4003.
spergenensis n. sp., Miller and Gurley, 3999.
Steganus n. gen., Seudder, 4890.
barrandei, Seudder, 4890.
Stegomus arcuatus n. gen. et sp., Marsh, 3698.
Stegosaurus, Case, 768.
Stegosaurus, Marsh, 3701, 3702.
Stemmatia bieristatus, Hay, 2381.
bifurcatus, Hay, 2381.
cheiriformis, Hay, 2381.
compactus, Hay, 2381.
keokuk, Hay, 2381.
symmetricus, Hay, 2381.
Stenaster Billings, James, 2896.
grandis Meek, James, 2896.
harrisi (S. A. Miller), James, 2896.
Stenecphora n. gen., Seudder, 4895.
punctulata n. sp., Seudder, 4895.
Stenognathus, n. gen., Newberry, 4082.
Stenogomphus n. gen., Seudder, 4895.

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- Stenogomphus carletoni*, Seudder, 4895.
Stenolocris n. gen., Seudder, 4895.
venosa n. sp., Seudder, 4895.
Stenolophus religatus n. sp., Seudder, 4900.
Stenopoeas n. gen., Hyatt, 2816.
Stenopora, Simpson, 4983.
spinulosa n. sp., Rogers, 4656.
spissa n. sp., Rogers, 4546.
tuberculata (Prout), Keyes, 3062.
Stenoeschisma Conrad, Hall and Clarke, 2261a, 2264.
Stenotheca Salter, Grabau, 2092.
Stenotheca Salter, Matthew, 3770.
Stenotheca Salter, Ulrich and Scofield, 5541.
abrupta Shaler and Foerste, Grabau, 2092.
concentrica, Matthew, 3770.
var. radiata, Matthew, 3770.
curvirostra Shaler and Foerste, Grabau, 2092.
exerta Sardeson, Ulrich and Scofield, 5541.
hicksiana, Matthew, 3770.
levis Walcott, Grabau, 2092.
nasuta, Matthew, 3770.
pauper Billings, Grabau, 2092.
triangularis, Matthew, 3770.
unguiformis n. sp., Ulrich and Scofield, 5541.
Stephanella hindii n. sp., Dawson, 1152.
Stephanocoenia fairbanksi n. sp., Vaughan, 5735.
Stephanocrinus Conrad, Weller, 6002.
eornetti n. sp., Miller, 3995.
elongatus n. sp., Miller, 3992.
hamelli n. sp., Miller, 3992.
obpyramidalis n. sp., Miller, 3992.
osgoodensis, Miller, 3992.
osgoodensis (S. A. Miller), Weller, 6002.
Stephanograptus crassicaulis n. sp., Gurley, 2217.
exilis Lapworth n. sp., Gurley, 2217.
Stephanomorpha montieuliformis, n. sp., Vaughan, 5735.
Steptopora interporata n. sp., Rogers, 4656.
Sterculia aperta Lesq., Lesquereux, 3470.
engleri n. sp., Kirehner, 3187.
mucronata n. sp., Lesquereux, 3470.
reticulata n. sp., Lesquereux, 3470.
snowii n. sp., Lesquereux, 3470.
snowii Lesq. (?), Hollick, 2696.
snowii, Knowlton, 3234.
snowii var. *disjuncta* n. var., Lesquereux, 3470.
sp.?, Hollick, 2606, 2698.
Stereocrinus indianensis n. sp., Miller and Gurley, 4003.
Stereolasma n. gen., Simpson, 4984.
Steriphonotrochus puleher n. sp., Vaughan, 5735.
Sterrhophus, Marsh, 3701.
Stethacanthus compressus n. sp., Newberry, 4082.
productus n. sp., Newberry, 4082.
Stethocapsa, Matthew, G. F., 3760.
Stiboriopsis n. gen., Vaughan, 5734.
jamaicensis n. sp., Vaughan, 5734.

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- Stictocella, Simpson, 4983.
 Stictopora Hall, Grabau, 2086.
 Stictopora, Simpson, 4983.
 palmipes Hall, Grabau, 2086.
 permarginata Hall, Grabau, 2086.
 recta Hall, Grabau, 2086.
 sinuosa Hall, Grabau, 2086.
 sp.?, Clarke, 971.
 Stictoporella n. gen., Simpson, 4983.
 (?) *sp.*, Girty, 2038.
 Stictoporina n. gen., Simpson, 4983.
 Stigmaria *evenii* Lx., White, 6050.
 verrucosa (Martin) S. A. Miller, White, 6050.
 Straderes n. gen., Scudder, 4890.
 conradi, Scudder, 4890.
 Stomatia *intermedia* n. sp., Cooper, 1071.
 Stomatopora, Simpson, 4983.
 Stomatopora Bronn, Ulrich, 5537.
 canadensis n. sp., Whiteaves, 6087.
 inflata Hall, Ulrich, 5537.
 proutana S. A. Miller, Ulrich, 5537.
 tenuissima Ulrich, Ulrich, 5537.
 turgida Ulrich, Ulrich, 5537.
 Stomechinus *hyatti* Clark, Clark, 892.
 Stramentum n. gen., Logan, 3553.
 Stramentum, Logan, 3554.
 hawarthii Williston, Logan, 3554.
 haworthi n. sp., Logan, 3553.
 tabulatum n. sp., Logan, 3553, 3554.
 Straparollina *obtusa* n. sp., Whiteaves, 6074.
 remota Billings, Grabau, 2092.
 Straparollus Montfort, Grabau, 2086.
 Straparollus Montfort, Keyes, 3062.
 ammon (White and Whitfield), Keyes, 3062.
 ammon (W. & W.), Weller, 6006.
 angularis n. sp., Weller, 6006.
 blairi n. sp., Miller, 3992.
 catilloides (Conrad), Keyes, 3062.
 claytonensis n. sp., Calvin, 684.
 clymenioides Hall?, Girty, 2039.
 latus (Hall), Keyes, 3062.
 macromphalus Win., Weller, 6006.
 missouriensis n. sp., Miller and Gurley, 4002.
 obtusus (Hall), Keyes, 3062.
 parva n. sp., Cleland, 1012.
 pernodosus Meek and Worthen, Keyes, 3062.
 planidorsatus Meek and Worthen, Keyes, 3062.
 pristiniformis n. sp., Calvin, 684.
 rudis Hall, Grabau, 2086.
 similis, Whitfield, 6099.
 spengenensis (Hall), Keyes, 3062.
 utahensis Hall and Whitfield, Girty, 2038.
 valvataformis Shumard, Keyes, 3062.
 (*cf.* *Oriostoma*) *incarinatum* n. sp., Foerste, 1835.
 ? *sp.*, Weller, 5994.
 Streblotrypa Ulrich, Grabau, 2096.
 Streblotrypa, Simpson, 4983.
 hamiltonense (Nicholson), Grabau, 2086.
 striatopora n. sp., Rogers, 4656.

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- Streblotrypa *ulrichi* n. sp., Rogers, 4656.
 Strenuella, Matthew, 3789.
 (?) *attleborensis*, Shaler and Foerste, mut.
 vigilans n. mut., Matthew, 3789.
 strenua (Billings), Grabau, 2092.
 strenua Billings sp., mut. *robusta* n. mut., Matthew, 3789.
 Strepsidura *ficus* Gabb, Harris, 2307.
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Stromatotrypa n. gen., Ulrich, 5537.
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 (*Amyela*) *levis* n. sp., Whitfield, 6101.
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 lincklani Hall, Clarke, 971.
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 (*Donvillina*) *inaequistriata* (Conrad), Grabau, 2086.
 (*Leptostrophia*) *junia* Hall, Grabau, 2086.
 (*Leptostrophia*) *perplana* Conrad, Grabau, 2086.
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 (*Strophonella*) *patenta*, Foerste, 1835.
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Styliola primaeva n. sp., Matthew, 3746.
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dixonensis n. sp., Ulrich and Scofield, 5541.
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- Symbathocerinus wortheni* Hall, Keyes, 3061.
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 ? *knowltoni* n. sp., Stanton, 5206.
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 ? *extenuatus* n. sp., Ulrich, 5534, 5539.
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 lignitica n. sp., Harris, 2311.
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 (?) *perlata* n. sp., Herrick and Johnson, 2465.
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 (?) *sublata* Meek, Herrick and Johnson, 2465.
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 (*Arcopagia*) *trumani* n. sp., Harris, 2313.
 (*Cyclotellina*) *fausta* Donovan, Dall, 1281.
 (*Eurytellina*) *alternata* Say, Dall, 1281.
 roburina n. sp., Dall, 1281.
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 (*Macaliopsis*?) *cloneta* n. sp., Dall, 1281.
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 (*Merisca*) (?) *acrocsmia* n. sp., 1281.
 æquistriata Say, Dall, 1281.
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 (*Moerella*?) *Aldrichi* n. sp., Dall, 1281.
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- Tellina* (*Moerella*) *mucinella* n. sp., Dall, 1281.
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 (*Oudardia*) *buttoni*, Dall, 1281.
 (*Palæomoera*) *whitei* Stanton, Herrick and Johnson, 2465.
 (*Palæomoera*) *whitei* n. sp., Stanton 5191.
 (*Peronæoderma*) *producta*, Whitfield, 6101.
 (*Phyllodina*) *dodona*, Dall, 1281.
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 (*Scissula*) *calliglypta* n. sp., Dall, 1281.
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 (*Tellinella*) *capillifera*, Whitfield, 6101.
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 longa n. sp., Ulrich, 5531.
 nitida n. sp., Ulrich, 5534.
 ovata, Whitfield, 6102.
 planodorsata n. sp., Ulrich, 5534.
 pulchella n. sp., Clarke, 976.
 recurva n. sp., Ulrich, 5534.
 similis n. sp., Ulrich, 5534.
 subrecta n. sp., Clarke, 976.
 subrotunda n. sp., Ulrich, 5539.
 ventricosa, Whitfield, 6102.
 (*Nucula*?) *clintonensis* n. sp., Foerste, 1835.
 minima, Foerste, 1835.
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Tellinopsis Hall, Grabau, 2086.
 submarginata (Conrad), Grabau, 2086.
Telmaticeyon n. gen., Marsh, 3719.
Telmatotherium cornutum n. sp., Osborn, 4190.
 diploconum n. sp., Osborn, 4190.
 hyognathum, Osborn, 4190.
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Telmatrechus Seudder, Seudder, 4895.
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Temnocheilus McCoy, Hyatt, 2816.
 conchiferus, Hyatt, 2816.
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 crassus n. sp., Hay, 2389.
 greenense n. sp., Miller and Gurley, 4003.
 subtuberculatus, Hyatt, 2819.
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Tenebrio calculensis, Seudder, 4896.
 primigenius, Seudder, 4896.
Tenillus n. gen., Seudder, 4890.
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 ? *acus* n. sp., Clarke, 971.
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 (*Aeus*) *amitra* n. sp., Dall, 1269.
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Tomasina n. gen., Hall and Clarke, 2260.
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Tornatella bella (Conrad), Clarke, 906.
normalis n. sp., Cooper, 1071.
Tornatella bella Con., Harris, 2316.
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Tornatina canaliculata Say, Dall, 1259.
erratica n. sp., Cooper, 1071.
fischeri n. sp., Dall, 1269.
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Trachydomia Meek and Worthen, Keyes, 3062.
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- Trachypora elegantula* Billings, Lambe, 3374.
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multivaricosum n. sp., Whitfield, 6097.
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Trapa americana n. sp., Knowlton, 3246.
cuneata n. sp., Knowlton, 3264.
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(?) occidentalis n. sp., Knowlton, 3246.
Trematodus Hall, Ulrich and Seefield, 6541.
Trematella, Simpson, 4983.
Trematis Sharpe, Hall and Clarke, 2260.
Trematis Sharpe, Winchell and Schuchert, 6319.
huronensis Billings?, Winchell and Schuchert, 6319.
ottawensis Billings, Winchell and Schuchert, 6319.
Trematobolus n. gen., Matthew, 3749.
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Trematoceras Hyatt, Hyatt, 2816.
Trematoceras Whitfield, Whitfield, 6099.
ohioense n. sp., Miller and Faber, 3993.
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Trematofusus venustus n. sp., Whitfield, 6097.
Trematonotus angustatus Hall, Whiteaves, 6080.
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Trematopora Hall, Ulrich, 5537.
? primigenia Ulrich, Ulrich, 5537.
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Trematopygus crucifer (Morton), Clark, 892.
Trematosaurus, Case, 767.
Trematospira, Hall and Clarke, 2260, 2264.
Trematospira Hall, Grabau, 2086.
gibbosa, Grabau, 2086.
imbricata? (Hall), Keyes, 3062.
multistriata Hall, Clarke, 971.
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Trichocnemis aliena, Scudder, 4889.
Trichospongia hystrix n. sp., Whiteaves, 6087.
sericea Billings, Rauff, 4548.
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 Triga cœni n. sp., Scudder, 4900.
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 (?) lepidia Hall, Grabau, 2086.
 Trigonarca pulchra var., Harris, 2313.
 depressa (White), Stanton, 5191.
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 montanaensis Meek, Stanton, 5206.
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 Trigonodictya n. gen., Ulrich, 5737.
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 grandis Billings, Whiteaves, 6080.
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 Triplicosta n. subgen., Cooper, 4072.
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 Tritonidea huerfanensis n. sp., Stanton, 5191.
 ? huerfanensis, Stanton, Herrick, and Johnson, 2465.
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 insigne n. sp., Whiteaves, 6089.
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5541.beloitense Whitfield, Ulrich and Scofield,
5541.bellulum n. sp., Ulrich and Scofield, 5541.
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5541.fragile n. sp., Ulrich and Scofield, 5541.
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5541.

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5541.

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5541.umbilicatum Hall, Ulrich and Scofield,
5541.

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(Eunema) arcatatum n. sp., Ulrich and
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5541.obsoletum n. sp., Ulrich and Scofield,
5541.robbinsi n. sp., Ulrich and Scofield,
5541.salteri n. sp., Ulrich and Scofield,
5541.simile n. sp., Ulrich and Scofield,
5541.*Trochoneumatida* n. fam., Ulrich and Scofield,
5541.*Trochoseris catadupensis* n. sp., Vaughan,
5734.*Trochomilia hilli* n. sp., Vaughan, 5734.*Trochus cinctus* Wagner, Dall, 1273.

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texanus, Stanton, 5197.

Troostocrinus dubius n. sp., Rowley, 4677.

nitidulus n. sp., Miller and Gurley, 3991.

Trophon caudatoides Ald., Harris, 2316.

elegantissimus Ald., Harris, 2316.

gracilis Ald., Harris, 2316.

morulus, Harris, 2310.

sublevis n. sp., Harris, 2316.

(Aspella) engonatus n. sp., Dall, 1259.

Tropideres remotus, Seudder, 4890.

vastatus, Seudder, 4890.

Tropidocyclus gillettianus, Hartt and Rath-
bum (sp.), Clarke, 976.*Tropidodiscus cyrtolites* (Hall), Weller, 5994.*Tropidoleptus*, Hall, Grabau, 2086.*Tropidoleptus* Hall, Hall and Clarke, 2261a,
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gabbiana n. sp., Harris, 2307.
(Volvariella) *alabamensis* n. sp., Aldrich, 74.
(Volvariella) *alabamiensis* Ald., Harris, 2316.
Volvula? *smithvillensis* n. sp., Harris, 2307.
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 6052.
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 smockii n. sp., Newberry, 4080.
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 corpulentoides n. sp., Aldrich, 73.
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 Zacanthoides spinosus Walcott, Matthew, 3788.
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 Zamiostrobus virginienensis Fontaine, Ward,
 5857.
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 pennsylvanicus Fontaine n. sp., Ward
 5857.
 tenuinervis Font., Fontaine, 1846.
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- Diabase, Turner, 5453, 5457, 5467, 5472.
- Diabase, Turner and Ransome, 5470.
- Diabase, Washington, 5876.
- Diabase, Watson, 5889.
- Diabase, Weed and Pirsson, 5935.
- Diabase, Westgate, 6017.
- Diabase, Williams, 6154.
- Diabase, Winchell, 6277.
- Diabase, Winchell and Grant, 6376.
- Diabase amygaloid, Diller, 1507.
- Diabase pitchstone, Emerson, 1674.
- Diabase-porphphyrite, Ferrier, 1813.
- Diabase-porphphyry, Turner, 675.
- Diabase-schist, Brooks, 615.
- Diabase-tuff, Ferrier, 1813.
- Diorite, Becker, 345.
- Diorite, Brooks, 615.
- Diorite, Clements, 1014, 1015.
- Diorite, Clements and Smyth, 1017.
- Diorite, Crosby, 1169, 1178.
- Diorite, Cross, 1185, 1188, 1191.
- Diorite, Culver, 1214.
- Diorite, Diller, 1507.
- Diorite, Emerson, 1677.
- Diorite, Ferrier, 1816.
- Diorite, Grimsley, 2185.
- Diorite, Iddings, 2823, 2845.
- Diorite, Irving, 2868.
- Diorite, Kemp, 2993.
- Diorite, Lindgren, 3513, 3535, 3540.
- Diorite, Luquer and Ries, 3598.
- Diorite, Merrill, G. P., 3951.
- Diorite, Packard, 4237.
- Diorite, Pirsson, 4408.
- Diorite, Rominger, 4664.

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- Diorite, Smyth, C. H., jr., 5083.
- Diorite, Todd, 5407.
- Diorite, Turner, 5453, 5457, 5465, 5471.
- Diorite, Van Hise and Bayley, 5704.
- Diorite, Washington, 5874.
- Diorite, Weed and Pirsson, 5935.
- Diorite (Quartz diorite porphyrite), Weed and Pirsson, 5928.
- Diorite, White, 6068.
- Diorite, Williams, 6154, 6159.
- Diorite (?), Winchell and Grant, 6376.
- Diorite-monzonite, Cross, 1201.
- Diorite-porphphyrite, Lindgren, 3531.
- Diorite-porphphyrite, Matthew, W. D., 3798.
- Diorite-porphphyrite, Merrill, G. P., 3951.
- Diorite, porphyritic, Washington, 5874.
- Diorite-porphphyry, Emmons, 1712.
- Diorite-porphphyry, Lord, 3572.
- Diorite-porphphyry, Spurr, 5175.
- Diorite-porphphyry, Turner, 5465.
- Diorite-porphphyry, Weed and Pirsson, 5942.
- Diorite-porphphyry-schist, Spurr, 5173.
- Dolerite, Diller, 1507.
- Dolomite, Van Hise and Bayley, 5696.
- Doloritic basalt, Turner, 5457, 5467.
- Dunite, Lewis, 3508.
- Dunite, Martin, 3730.
- Eleolite-syenite, Bayley, 301.
- Eleolite-syenite, Kemp, 2971.
- Eleolite-syenite, Osann, 4174.
- Elæolite-syenite, Wolff, 6408.
- Enstatite, Lewis, 3508.
- Enstatite andesite, Merrill, G. P., 3951.
- Enstatite-diabase porphyry, Lord, 3571.
- Epidiorite, Brooks, 615.
- Epidiorite, Ferrier, 1813.
- Epidote, Westgate, 6017.
- Epidote-bearing rocks, Keyes, 3054.
- Epidote-mica-gneiss, Diller, 1507.
- Epidote-schist, Brooks, 615.
- Epidote-schist, Ferrier, 1813.
- Epidote-schist, Turner, 5465.
- Essexite, Washington, 5874.
- Esterelyle, Winchell and Grant, 6376.
- Feldspathic actinolite schist, Ferrier, 1813.
- Felsite, Williams, 6159.
- Felsite-porphphyry, Matthew, W. D., 3798.
- Felsite-porphphyry, Weed and Pirsson, 5935.
- Felsophyre, Darton and Keith, 1327.
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- Fourchite, Griswold, 2195.
- Fourchite, Kemp and Marsters, 2978.
- Fourchite, Marsters, 3727.
- Fourchite, Ransome, 4533.
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- Gabbro, Bayley, 303, 306, 309, 310.
- Gabbro, Becker, 345.
- Gabbro, Clements, 1015.
- Gabbro, Clements and Smyth, 1017.
- Gabbro, Coleman, 1027.
- Gabbro, Diller, 1507.
- Gabbro, Elftman, 1633, 1634, 1635.
- Gabbro, Fairbanks, 1753.
- Gabbro, Ferrier, 1813, 1816.

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 Granite-diorite, Ries, 4615.
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 Granite-porphyrity, Lindgren, 3531.
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 Granite, porphyritic, Fuller, 1904.
 Granite-porphyrity, Ferrier, 1813.
 Granite-porphyrity, Haworth, 2357.
 Granite-porphyrity, Pirsson, 4408.
 Granite porphyry, Turner, 5453, 5465.
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 Granite, Emerson, 1677.
 Granitoid gneiss, Diller, 1507.
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- Graphite-schist, Clements, 1014.
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 Greenstone, Winchell and Grant, 6376.
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 Hornblende-andesite, Merrill, G. P., 3951.
 Hornblende-andesite, Turner, 5457.
 Hornblende-andesite-porphyr, Iddings, 2843a.
 Hornblende-basalt, Diller, 1505.
 Hornblende-bearing biotite-granite, Diller, 1507.
 Hornblende-biotite gneiss, Williams, 6159.
 Hornblende-diorite, Turner, 5465.
 Hornblende-diorite-porphyr, Diller, 1507.
 Hornblende-gabbro, Lord, 3574.
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 Hornblende-granite, Ferrier, 1813.
 Hornblende-granite, Ransome, 4541.
 Hornblende-granite, Spurr, 5173.
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 Hornblende-granitite, Ferrier, 1813.
 Hornblende-mica-andesite, Diller, 1507.
 Hornblende-mica-andesite, Lord, 3572.
 Hornblende-mica-andesite-porphyr, Iddings, 2843a.
 Hornblende-mica-porphyr, Turner, 5457.
 Hornblende-mica-schist, Watson, 5888.
 Hornblende-pierite, Merrill, G. P., 3951.
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 Hornblende-porphyr, Cross, 1185.
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 Hornblende-porphyr, Williams, 6154.
 Hornblende-pyroxene-andesite, Diller, 1507.
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 Hornblende-schist, Diller, 1507.
 Hornblende-schist, Lane, 3382.
 Hornblende-schist, Van Hise and Bayley, 5704.
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 Hornblende-schist, Winchell and Grant, 6376.
 Hornblende-syenite, Bayley, 301.
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- Hornblende, Spurr, 5173.
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 Hypersthene-andesite, Diller, 1507.
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 Leucite-tephrite, Clements, 1014.
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 Lherzollite-serpentine, Palache, 4240.
 Limestone, Dale, 1254.
 Limestone, Day, 1465.
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 Liparite, Merrill, G. P., 3951.
 Lithographic stone, Diller, 1507.
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 Madupite, Cross, 1196.
 Magnetite, Diller, 1507.
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 Malaccolite rock, Merrill and Packard, 3943.
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 Marble, Diller, 1507.
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 Melaphyre, Bascom, 276.
 Melaphyre, Ferrier, 1813.
 Melaphyr, Kloos, 3193.
 Melaphyr, Merrill, 3946.
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 Melaphyr, White, 6068.
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 Meta-diorite, Ransome, 4543.
 Meta-diorite, Ransome, 4543.
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 Metabasalts, Clements and Smyth, 1017.
 Metadiorite, Cross, 1184.
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 Metadolerite, Clements and Smyth, 1017.
 Metagabbro, Diller, 1508.
 Metarhyolite, Diller, 1507.
 Metarhyolite, Weidman, 5970.
 Mica-andesite, Ferrier, 1813.
 Mica-dacite, Cross, 1191.
 Mica-diorite gneiss, Ferrier, 1811.
 Mica-peridotite, Diller, 1494.
 Mica-porphyrity, Ferrier, 1813.
 Mica-schist, Clements, 1014.
 Mica-schist, Diller, 1507.
 Mica-schist, Kemp, 2993.
 Mica-schist, Walker, 5825.
 Mica-schist, Watson, 5888.
 Mica-schist, Winchell and Grant, 6376.
 Mica-syenite, Merrill, G. P., 3951.
 Mica-syenite, Ransome, 4541.
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 Muscovite-granite, Crosby, 1169.
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 Nepheline-basalt, Weed and Pirsson, 5936.
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 Nepheline-melilite basalt, Merrill, 3967a.
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 Nepheline-syenite, Coleman, 1043, 1045.
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 Pyroxene-syenite, Turner, 5465.
 Pyroxenite, Diller, 1507.
 Pyroxenite Ferrier, 1816.
 Pyroxenite, Kemp, 2992.
 Pyroxenite, Merrill, G. P., 3951.
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 Pyroxenite-granite-gneiss, Ferrier, 1811.
 Quartz, vein, Diller, 1507.
 Quartz-aegrite porphyry, Irving, 2868.
 Quartz-alunite rock, Cross, 1191.
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 Quartz-augite-diorite, Ferrier, 1813.
 Quartz-augite-diorite, Turner, 5465.
 Quartz-basalt, Diller, 1507.
 Quartz-diabase, Brooks, 615.
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 Quartz keratophyre, Weidman, 5969.
 Quartz-mica-diorite, Ferrier, 1813.
 Quartz-mica-diorite, Turner, 5457, 5465.
 Quartz-mica-porphryite, Ferrier, 1813.
 Quartz-mica-diorite-porphry, Iddings, 2844.
 Quartz-monzonite, Turner, 5479, 5481.
 Quartz-muscovite schist, Ransome, 4543.
 Quartz-norite-gneiss, Diller, 1507.
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 Quartz-porphryite, Lindgren, 3531.
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