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Illustrated Paleozoic
Plant Specimens in the
National Museum of
Natural History

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ABSTRACT

Watt, Arthur D. Catalog of the Illustrated Paleozoic Plant Specimens in the National Museum of Natural History. *Contributions to Paleobiology*, 5:1-53. 1970-A catalog of the illustrated Paleozoic fossils in the National Museum of Natural History is presented, updating United States National Museum Bulletin 53, part 2, section 3, 1907.

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Arthur D. Watt

Catalog of the Illustrated Paleozoic Plant Specimens in the National Museum of Natural History

Introduction

This catalog, which is up to date as of 1964, is presented as a supplement to the Paleozoic content of A. C. Peale's paleobotanical catalog in *United States National Museum Bulletin* 53, part 2, section 3, published in 1907 as "Catalogue of the Type and Figured Specimens of Fossils, Minerals, Rocks, and Ores in the Department of Geology, United States National Museum: Part 2. Fossil Vertebrates; Fossil Plants; Minerals, Rocks, and Ores." It was prepared under the direction of George P. Merrill, then Head Curator of Geology.

Genera are listed alphabetically, as are the species under each genus. An index to species is provided for convenient cross reference. The age used for each specimen is that of the referenced author and does not necessarily reflect present U.S. Geological Survey usage. The numbers following geologic age in each entry refer to numbers in the United States National Museum paleobotanical catalogs. The abbreviated references indicated in each entry are cited fully in the bibliography.

A very small percentage of the specimens listed here have not actually been illustrated, but inasmuch as they were textually isolated or represent unfigured parts of figured specimens they are included. Furthermore, typological status of specimens is not indicated here because in so many cases it is obscure; this is particularly true of material treated in the older works, in which types were not designated.

Arthur D. Watt, *United States Geological Survey, Washington, D.C. 20240.*

List of Specimens

Acrangiophyllum

pendulatum (Lesley) Mamay. Pennsylvanian. 14726–28. Cordova, Alabama. Mamay, 1955, pp. 177–183, figs. 1–5.

Adiantites

bassleri Read. Mississippian. 41000. Paracas Peninsula, Peru. Read, 1938a, p. 399, fig. 7.

cardiopteroides Read. Mississippian (Pocono). 40683, 40685–86, 40700. Allegheny Station, Virginia. Read, 1955, p. 18, pl. 3: fig. 5; pl. 13: figs. 1, 2, 5.

cyclopteroides Read. Mississippian (Pocono). 40652, 40684. Tionesta, Pennsylvania. Read, 1955, p. 18, pl. 11: figs. 1–2; pl. 12: figs. 1, 2.

minima White. Mississippian (Wedington). 39477. Winslow quadrangle, Arkansas. White, 1936b, p. 18, pl. 4: fig. 38.

peruvianus (Berry) Read. Mississippian. 40999. Paracas Peninsula, Peru. Read, 1938a, p. 401, fig. 3.

rockymontanus Read. Pennsylvania (Weber). 39159. Evans Peak, Colorado. Read, 1934, p. 88, pl. 18: figs. 5, 6.

spectabilis Read. Mississippian (Pocono). 40634, 40640, 40646–48, 40665, 40687–88. Bellwood, Blair County and Caledonia, Clearfield County, Pennsylvania. Read, 1955, p. 17, pl. 7: fig. 3; pl. 10: fig. 6; pl. 11: figs. 4, 5; pl. 14: figs. 1–4.

- spectabilis* Read. Mississippian (Pocono). 40688. Caledonia, Pennsylvania. Read and Mamay, 1964, pl. 1: fig. 1.
- stanleyanus* White. Mississippian (Stanley). 39373. De Queen quadrangle, Arkansas. White, 1936c, p. 58, pl. 10: figs. 26, 28.
- ungeri* Read. Mississippian (Pocono). 40660–62. Pottsville, Pennsylvania. Read, 1955, p. 17, pl. 2: figs. 4–6. species. Mississippian (Stanley). 39374–75. De Queen quadrangle, Arkansas. White, 1936c, p. 59, pl. 11: figs. 14, 16, 19.

Alcicornopteris

- altoonensis* Read. Mississippian (Pocono). 40649–50. Altoona, Pennsylvania. Read, 1955, p. 19, pl. 16: figs. 1, 2.

Alethopteris

- ambigua* Lesquereux. Pennsylvanian (Cherokee). 13066, 41056–57. Henry County, Missouri. Lesquereux, 1880, p. 182, pl. 31: figs. 1–3.
- ambigua* Lesquereux. Pennsylvanian (Cherokee). 5634, 41058–59. Henry County, Missouri. White, 1899a, p. 113, pl. 41: fig. 9; pl. 37: figs. 3, 4.
- crassa* Lesquereux. Pennsylvanian (Allegheny). 12244. Cannelton, Pennsylvania. Lesquereux, 1884, p. 748, pl. 98: fig. 5.
- evansi* Lesquereux. Pennsylvanian (Walden). 11886–890. Tracy and Rockwood, Tennessee. Lesquereux, 1884, p. 834, unfigured types.
- evansi* Lesquereux. Pennsylvanian (Pottsville). 40849. Bloomington quadrangle, Indiana. Jackson, 1917, p. 418, pl. 3: fig. 3.
- evansi* Lesquereux. Pennsylvanian (Pottsville). 40962, 40972. Pottsville Gap, Pennsylvania. White, 1900, p. 887, pl. 192: figs. 7, 8.
- grandifolia* Newberry. Pennsylvanian (Pottsville). 40852, 40912. Bloomington quadrangle, Indiana. Jackson, 1917, p. 418, pl. 2: fig. 9; pl. 3: fig. 6.
- grandini* (Brongniart) Goepfert. Pennsylvanian (Bonner Springs). 12216. Garnett, Kansas. Cridland et al., 1963, pl. 20: fig. 39.
- halli* Lesquereux. Pennsylvanian (Allegheny). 42328. Mazon Creek, Illinois. Lesquereux, 1870, p. 394, pl. 10: figs. 7, 8.
- lacoiei* White. Pennsylvanian (Pottsville). 40973, 40982. Lower Eureka tunnel, Pennsylvania. White, 1900, p. 884, pl. 193: figs. 1, 2.

- lonchitica* Brongniart. Pennsylvanian (Vandever). 41979. Durham, Georgia. Allen and Lester, 1954, pl. 35: fig. 1.
- robusta* Lesquereux. Pennsylvanian (Allegheny). 12174–77. Cannelton, Pennsylvania. Lesquereux, 1884, p. 835.
- rugosum* Lesquereux. Pennsylvanian. 11942. Pottsville, Pennsylvania. Lesquereux, 1858, p. 11, pl. 1: fig. 2.
- serli* Brongniart. Pennsylvanian (Pottsville). 40879a, 40879b. Clay City quadrangle, Indiana. Jackson, 1917, p. 419, pl. 7: figs. 1, 2.
- serli* Brongniart. Pennsylvanian (Cherokee). 12098–100. Henry County, Missouri. Lesquereux, 1880, p. 176, pl. 29: figs. 2–4.
- serli missouriensis* White. Pennsylvanian (Cherokee). 3594. Henry County, Missouri. White, 1899a, p. 117, pl. 37: figs. 1, 2.
- species. Pennsylvanian (Pottsville). 40847–48, 40865. Bloomington, Indiana. Jackson, 1917, p. 418, pl. 3: figs. 1, 2; pl. 5: fig. 5.

- Algooid axis. Pennsylvanian (Cherokee). 5726. Henry County, Missouri. White, 1899a, pl. 44: fig. 4.

Alloiopteris

- arkansana* White. Mississippian (Stanley). 39378–383A. De Queen quadrangle, Arkansas. White, 1936c, p. 59, pl. 10: figs. 3, 10, 11, 13, 20, 21, 23, 27; pl. 11: figs. 9, 10, 22, 23.
- erosa* Gutbier. Pennsylvanian (Cherokee). 5614, 12386. Henry County, Missouri. White, 1899a, p. 70, pl. 23: fig. 6; pl. 24: fig. 3.
- inaequilateralis* (Lesquereux) White MS. Pennsylvanian (Morrow). 14223. Washington County, Arkansas. Read and Mamay, 1964, pl. 5: fig. 5.
- (*Corynepteris?*) *winslovi* White. Pennsylvanian (Cherokee). 5609–13, 5689–90, 5721. Henry County, Missouri. White, 1899a, p. 72, pl. 22: figs. 1–3; pl. 23: figs. 1–5.

Aneimites

- (*Wardia*) *cardiopteroides* White. Pennsylvanian (Walden). 40120a–c. Suwanee, Tennessee. White, 1943, p. 103, pl. 38: figs. 1–4, 19.
- (*Wardia*) *fertilis* White. Pennsylvanian (Pottsville). 30840–42, 30844, 41064–66, 40115a–f, 40124a–b, 42004. Nuttall, West Virginia. White, 1943, p. 101, pl. 37: figs. 1–5, 7–11; pl. 39: figs. 13–16; 1904,

- p. 323, pl. 47: figs. 1–3; pl. 48: figs. 1–12, 14.
- fertilis* White. Early Pennsylvanian. 40124a. Nuttall, West Virginia. Read and Mamay, 1964, pl. 4: fig. 4.
- polymorphus* White. Pennsylvanian (Pottsville). 40122a–d, 42002–03. Rush Run, West Virginia. White, 1943, p. 103, pl. 38: figs. 7, 11, 16–18.
- pottsvillensis* White. Pennsylvanian (Pottsville). 40116b, 42061. Lincoln colliery near Tremont, Pennsylvania. White, 1900, p. 868, pl. 190: figs. 1, 2.
- pottsvillensis* White. Pennsylvanian (Pottsville). 40116a–b, 40118b. Tremont, Pennsylvania, and Clark's Gap, West Virginia. White, 1943, p. 102, pl. 37: figs. 6, 15, 16, 18.
- pottsvillensis intermedius* White. Pennsylvanian (Pottsville). 40119a–c. Ringgold quadrangle, Georgia. White, 1943, p. 102, pl. 37: figs. 12–14, 19.
- (*Wardia*) *pseudoplecteris* White. Pennsylvanian (Pottsville). 40121a–b. Rush Run, West Virginia. White, 1943, p. 103, pl. 38: figs. 5, 6, 9, 13, 15.
- (*Wardia*) *tenuifolius* (Göeppert) White. Pennsylvanian (Pottsville). 40112, 40113a–d, 40123. Nuttall, West Virginia. White, 1943, p. 101, pl. 36: figs. 1–3, 7, 9, 10; pl. 38: figs. 10, 14.
- tenuifolius* (Göeppert) White. Early Pennsylvanian. 40113d. Nuttall, West Virginia. Read and Mamay, 1964, pl. 4: fig. 3.
- (*Wardia*) *tenuifolius difoliolatus* White. Pennsylvanian (Pottsville). 40114a–c. Ringgold quadrangle, Georgia. White, 1943, p. 101, pl. 36: figs. 8, 11; pl. 38: figs. 8, 12.
- (*Wardia*) *virginiana* White. Pennsylvanian (Pottsville). 40125a–g, 40126a–k. West Virginia. White, 1943, p. 101, pl. 39: figs. 1–12, 17–29.

Ankyropteris

- glabra* Baxter. Pennsylvanian (Des Moines). 41294. Booneville, Indiana. Baxter, 1951, unfigured section of the holotype.
- hendricksi* Read. Pennsylvanian (Johns Valley). 41236. Atoka County, Oklahoma. Read, 1938b, pp. 335–338, figs. 1–3.

Annularia

- ?*americana* Read. Permian (Tubarao Series). 40591–92. Parana, Brazil. Read, 1941, p. 87, pl. 6: figs. 5, 6.
- asteris* Bell. Pennsylvanian (Pottsville). 17860. Blackville, West Virginia. Abbott, 1958, p. 310, pl. 49: figs. 88, 89.

- cuspidata* Lesquereux. Pennsylvanian (Pottsville). 17851. Rushville, Ohio. Lesquereux, p. 725, pl. 92: fig. 7.
- emersoni* Lesquereux. Pennsylvanian (Monongahela). 17841. St. Clairsville, Ohio. Lesquereux, 1880, p. 50, pl. 92: fig. 6.
- longifolia* Brongniart (reverse). Pennsylvanian (Allegheny). 17863. Mazon Creek, Illinois. Lesquereux, 1880, p. 45, pl. 2: fig. 2.
- longifolia* Brongniart. Pennsylvanian (Allegheny). 17862. Mazon Creek, Illinois. Lesquereux, 1880, p. 45, pl. 2: fig. 1.
- minuta* Brongniart. Pennsylvanian or Permian (Dunkard). 17860. Blackville, West Virginia. Lesquereux, 1884, p. 725, pl. 92: fig. 8.
- sphenophylloides* (Zenker) Gutbier (counterpart). Pennsylvanian (Allegheny). 17971. Mazon Creek, Illinois. Lesquereux, 1880, p. 48, pl. 2: fig. 8.
- sphenophylloides intermedia* Lesquereux. Pennsylvanian (Cherokee). 17950. Lawrence, Kansas. Lesquereux, 1884, p. 724.
- sphenophylloides minor* Lesquereux. Pennsylvanian (Monongahela). 17841. St. Clairsville, Ohio. Lesquereux, 1879, pl. 3: fig. 13.
- stellata* (Schlotheim) Wood. Pennsylvanian (Cherokee). 12386. Henry County, Missouri. White, 1899a, p. 159, pl. 24: fig. 3b.
- stellata* sporangia (Schlotheim) Wood. Pennsylvanian (McAlester). 6516. McAlester, Oklahoma. White, 1899b, p. 515, pl. 68: fig. 10.
- tuberculata* Lesquereux. Pennsylvanian (Pottsville). 18147–48. Pittston, Pennsylvania. Lesquereux, 1884, p. 723, pl. 89: figs. 1, 2.

Aphlebia

- acuminatum* White. Pennsylvanian (LeRoy). 19566–68. Garnett, Kansas. White, 1903, p. 100.
- australis* Read. Mississippian. 40998. Paracas Peninsula, Peru. Read, 1938a, p. 402, fig. 6.
- germari* Zeiller. Pennsylvanian (Cherokee). 5546. Henry County, Missouri. White, 1899a, p. 106, pl. 46.
- parksii* White. Mississippian (Jackfork). 39393. Pike County, Arkansas. White, 1936c, p. 60, pl. 10: figs. 17, 22.
- subgoldenbergi* White. Pennsylvanian (Cherokee). 19599. Henry County, Missouri. White, 1899a, p. 110, pl. 47: fig. 7.

species. Pennsylvanian (Cherokee). 5727. Henry County, Missouri. White, 1899a, p. 112, pl. 45: fig. 1.
 species. Mississippian (Stanley). 39376, 39394. De Queen quadrangle, Arkansas. White, 1936c, p. 60, pl. 10: figs. 29, 30; pl. 11: fig. 15.

Arachnoxyylon

kopfi (Arnold) Read. Devonian (Hamilton). 41286. Canandaigua Lake, New York. Read, 1938c, p. 601, pl. 30: figs. 4, 5.

Arberia

minasica White. Permian. 31982–84. Santa Catharina, Brazil. White, 1908, p. 541, pl. 8: figs. 8–10.

Archaeocalamites

coralloides White. Mississippian (Jackfork). 39440. Pike County, Arkansas. White, 1936c, p. 52, pl. 14: fig. 23.

jayettevillensis White. Mississippian (Wedington). 39549. Winslow quadrangle, Arkansas. White, 1936c, p. 35, pl. 9: fig. 10.

gracilentus White. Mississippian (Wedington). 39550–52. Winslow quadrangle, Arkansas. White, 1936b, p. 35, pl. 9: figs. 1, 5, 9.

stanleyensis White. Mississippian (Stanley). 39435–39. De Queen quadrangle, Arkansas. White, 1936c, p. 52, pl. 13: figs. 7–11.

species. Mississippian (Wedington). 39557. Winslow quadrangle, Arkansas. White, 1936b, p. 38, pl. 9: fig. 11.

umbralis White. Mississippian (Wedington). 39553. Winslow quadrangle, Arkansas. White, 1936b, p. 36, pl. 9: fig. 4.

wedingtonensis White. Mississippian (Wedington). 39554–56. Winslow quadrangle, Arkansas. White, 1936b, p. 37, pl. 9: figs. 7, 12, 13.

Archaeopitys

eastmanni Scott and Jeffrey. Devonian. 41252. Junction City, Kentucky. Read, 1936, p. 221, pl. 28: figs. 2, 3.

Archaeopteris

allegeniensis (Meek) Lesquereux. Mississippian (Pocono). 2009. Lewis tunnel, Virginia. Lesquereux, 1880, p. 307, pl. 49: fig. 9.

denticulata Lesquereux. Pennsylvanian (Pottsville). 17008. Rushville, Ohio. Lesquereux, 1884, p. 774.

halliana (Goeppert) Dawson. Devonian (Catskill). 16943, 16945–46, 16948, 16955, 41131. Coxton Narrows, Pennsylvania. Arnold, 1939, p. 297, pl. 5: figs. 1, 3; pl. 6: figs. 2, 3; pl. 7: figs. 1, 2; pl. 8: fig. 1.

hitchcocki (Dawson) White. Devonian. 41117. Perry, Maine. Smith and White, 1905, p. 45, pl. 3: fig. 6.

hybernica (Forbes) Lesquereux. Devonian (Catskill). 16904. Coxton Narrows, Pennsylvania. Lesquereux, 1880, p. 305, pl. 50: fig. 5.

jacksoni Dawson. Devonian. 36460–61. Little River and McPhail's, Maine. Smith and White, 1905, p. 39, pl. 3: figs. 2, 3.

latifolia Arnold. Mississippian (Pocono). 40666. Altoona, Pennsylvania. Arnold, 1939, p. 307, pl. 9: fig. 1.

macilentata Lesquereux. Devonian (Catskill). 16962–63, 16965. Meshoppen, Pennsylvania. Lesquereux, 1884, p. 775.

macilentata Lesquereux. Devonian (Catskill). 16967. Factoryville tunnel, Pennsylvania. Arnold, 1936, p. 50, pl. 1: fig. 1.

minor Lesquereux. Devonian (Catskill). 16943, 16945–46, 16951. Coxton Narrows, Pennsylvania. Lesquereux, 1880, p. 302, pl. 50: figs. 1–4.

obtusa Lesquereux. Devonian (Catskill). 6011. Phoenicia, New York. Prosser, 1894, p. 64, pl. 2: fig. *a*.

rogersi (Dawson) Dawson. Devonian (Catskill). 16991, 16997, 17003. Meshoppen, Pennsylvania. Arnold, 1939, p. 303, pl. 8: figs. 2–4.

rogersi (Dawson) Dawson. Devonian. 35459, 35462. Perry, Maine. Smith and White, 1905, p. 43, pl. 2: fig. 12; pl. 3: fig. 5.

sphenophyllifolia Lesquereux. Devonian (Catskill). 16980–82. Meshoppen, Pennsylvania. Lesquereux, 1884, p. 775.

sphenophyllifolia Lesquereux. Devonian (Catskill). 16980–81, 16985k, 41173. Meshoppen, Pennsylvania, and Port Jervis, New York. Arnold, 1936, p. 52, figs. 2–6.

Arnoldella

minuta Read. Devonian. 41253. Junction City, Kentucky. Read, 1936, p. 221, figs. 3, 4.

Asterophycus

coxi Lesquereux. Pennsylvanian. 10254. New Harmony, Indiana. Lesquereux, 1876, p. 139, pl. 2: figs. 1, 2; 1880, p. 12, pl. B: figs. 5, 6.

simplex Lesquereux. Pennsylvanian. 10255. Beaver, Pennsylvania. Lesquereux, 1880, p. 13, pl. B: figs. 7, ?8.

Asterophyllites

arkansanus White. Pennsylvanian (Pottsville). 18117–19. Dade County, Georgia. White, 1900, p. 897.

charaeiformis (Sternberg) Goepfert. Pennsylvanian (Pottsville). 18117. Dade County, Georgia. Abbott, 1958, p. 296, pl. 48: figs. 85, 86.

equisetiformis (Schlotheim) Brongniart. Pennsylvanian (Allegheny). 17651. Cannelton, Pennsylvania. Lesquereux, 1880, p. 35, pl. 2: fig. 3.

equisetiformis (Schlotheim) Brongniart. Pennsylvanian (Cherokee). 6085. Henry County, Missouri. White, 1899a, p. 151, pl. 59: fig. 1c.

fasciculatum Lesquereux. Pennsylvanian (Cherokee). 18291–92, 18297. Henry County, Missouri. Lesquereux, 1880, p. 40, pl. 3: figs. 1–3.

gracilis Lesquereux. Pennsylvanian (Pottsville). 18117–19. Dade County, Georgia. Lesquereux, 1884, p. 714, pl. 93: figs. 3, 5, 7.

longifolius (Sternberg) Brongniart. Pennsylvanian (Cherokee). 5673, 5676–77. Henry County, Missouri. White, 1899a, p. 153, pl. 49: figs. 2–4.

longifolius (Sternberg) Brongniart. Pennsylvanian (Weber). 35152. Evans Peak, Colorado. Read, 1934, p. 83, pl. 16: fig. 8.

ovalis Lesquereux. Pennsylvanian (Allegheny). 18365–66. Mazon Creek, Illinois. Lesquereux, 1880, p. 36, pl. 3: figs. 6, 7.

fructified. Pennsylvanian (Allegheny). 18324. Mazon Creek, Illinois. Lesquereux, 1880, p. 45, pl. 3: fig. 12.

cf. **Asterophyllites**

equisetiformis (Schlotheim) Brongniart. Pennsylvanian (Spotted Ridge). 40728–29. Crook County,

Oregon. Mamay and Read, 1956, p. 218, pl. 36: figs. 11, 12.

Barinophyton

perrianum White. Devonian. 36469. Perry, Maine. Smith and White, 1905, p. 68, pl. 4: fig. 10.

richardsoni (Dawson) White. Devonian. 36467–68. Perry, Maine. Smith and White, 1905, p. 65, pl. 4: figs. 8, 9.

Barrandeina

perriana (Dawson) White. Devonian. 36458. Perry, Maine. Smith and White, 1905, p. 49, pl. 2: fig. 11.

Biscalitheca

musata Mamay. Pennsylvanian (McLeansboro). 41288. Lawrence County, Illinois. Mamay, 1957, pp. 229–239, figs. 1–30.

Bornia

approximatum Lesquereux. Pennsylvanian (Allegheny). 17307. Cannelton, Pennsylvania. Lesquereux, 1880, p. 32, pl. 75: fig. 16.

radiata Lesquereux. Pennsylvanian. 17581–82. Washington County, Arkansas, and Pittston, Pennsylvania. Lesquereux, 1884, p. 707, pl. 91: fig. 5; pl. 93: fig. 2.

cf. **Bothrodendron**

kiltorkense Haughton. Devonian. 41849. Alaska. Mamay, 1962, p. 20, pl. 1: fig. 1.

Bothrodendron

species. Mississippian (Jackfork). 39450. Atoka quadrangle, Oklahoma. White, 1936c, p. 55, pl. 13: figs. 4, 6.

species. Mississippian (Wedington). 39542. Winslow quadrangle, Arkansas. White, 1936b, p. 32, pl. 7: fig. 5.

Bowmanites

moorei Mamay. Pennsylvanian (Cherokee). 40934–35. Cherokee County, Kansas. Mamay, 1959b, pp. 530–536, figs. 1–16.

Brachyphyllum

- arizonicum* White. Permian (Hermit). 38060. Grand Canyon, Arizona. White, 1929, p. 109, pl. 48: fig. 4.
 cf. *B. australe* Feistmantel. Permian (Tubarao Series). 40593-94. Parana, Brazil. Read, 1941, p. 95, pl. 6: figs. 6, 8.
tenuis White. Permian (Hermit). 38061. Grand Canyon, Arizona. White, 1929, p. 110, pl. 45: figs. 1-3.—Read and Mamay, 1964, pl. 14: fig. 3.

Brittsia

- problematica* White. Pennsylvanian (Cherokee). 5693, 5722-24, 5811. Henry County, Missouri. White, 1899a, p. 98, pl. 47: figs. 1-3, 5; pl. 48: figs. 1-3.

Brongniartites

- ?*aliena* White. Permian (Hermit). 38043. Grand Canyon, Arizona. White, 1929, p. 84, pl. 23: fig. 2; pl. 26: figs. 1, 2, 4; pl. 27: fig. 2.
 ?*yakiensis* White. Permian (Hermit). 38042. Grand Canyon, Arizona. White, 1929, p. 79, pl. 23: fig. 3; pl. 24: fig. 2, 3; pl. 28: figs. 1, 2; pl. 29: figs. 1-3; pl. 30; pl. 31: figs. 1, 2; pl. 37: fig. 4.

?Brongniartites

- species. Permian (Vale). 41777, 41848. 2 miles east of Abilene, Texas, and Lawn, Texas. Read and Mamay, 1964, pl. 19: figs. 3, 4.

Buriadia

- species. Permian (Tubarao Series). 40595. Parana, Brazil. Read, 1941, p. 93, pl. 5: fig. 7.

Buthotrephis

- flexuosa* Emmons. Silurian. 41134. Greenwich, New York. Hall, 1847, p. 263, pl. 69A: fig. 1.
gracilis Hall. Early Silurian. 41078, 41092-93, 41123, 41125. New Hartford, New York. Hall, 1852, pp. 18, 20; pl. 5: figs. 1a-1d; pl. 5a: fig. 1.
gracilis crassa Hall. Early Silurian. 41074, 41124, 41126. New Hartford and New York City, New York. Hall, 1852, p. 19, pl. 5: figs. 3b-3d.

gracilis intermedia Hall. Early Silurian. 41075, 41127. New Hartford, New York. Hall, 1852, p. 19, pl. 5: figs. 2a-2b.

inosculata Bassler. Ordovician (Tyrone). 42172. Hoover Mill, west of Woodbury, Tennessee. Bassler, 1932, pl. 9: fig. 3; 1935, p. 404.

newlini White. Silurian. 8175. Kokomo, Indiana. White, 1901, p. 270, pl. 27.

palmata Hall. Early Silurian. 41079, 41083. New Hartford, New York. Hall, 1852, p. 20, pl. 6: fig. 1; pl. 7: fig. 1b.

subnodosa Hall. Ordovician. 41076-77. Turin, New York. Hall, 1847, p. 262, pl. 68: figs. 3a-3b.

succulens Hall. Ordovician. 41133. Glens Falls, New York. Hall, 1847, p. 62, pl. 22: fig. 2a.

root of *Buthotrephis*. Early Silurian. 41080-82, 41094. New Hartford, New York. Hall, 1852, p. 21, pl. 7: figs. 2a-2b; pl. 10: figs. 9a, 9b, 10.

Calamites

brittsi White. Pennsylvanian (Cherokee). 8793. Henry County, Missouri. White, 1899a, p. 169, pl. 49: fig. 1.

cruciatus Sternberg. Pennsylvanian (Lawrence). 17357. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 6.

inopinatus White. Mississippian (Jackfork). 39426-28. Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 53, pl. 12: figs. 1, 13-15.

menae white Mississippian (Stanley). 39433-34. De Queen quadrangle, Arkansas, and Antlers quadrangle, Oklahoma. White, 1936c, p. 54, pl. 14: figs. 16, 17, 21.

miseri White. Mississippian (Stanley). 39429-32. De Queen quadrangle, Arkansas. White, 1936c, p. 54, pl. 14: figs. 13, 22, 24-26.

ramifer Stur. Pennsylvanian (Pottsville). 17521-22. Pittston, Pennsylvania. Lesquereux, 1884, p. 703, pl. 91: figs. 4, 4a.

ramosus Artis. Pennsylvanian (Missourian). 17386-89. Lawrence, Kansas. Lesquereux, 1884, p. 702, pl. 92: figs. 1-4.

suckowi Brongniart. Pennsylvanian (Pottsville). 40891. Clay City quadrangle, Indiana. Jackson, 1917, p. 410, pl. 8: fig. 8.

suckowi Brongniart. Pennsylvanian (Lawrence). 17260. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 10.

Calamodendron

species. Pennsylvanian (Allegheny). 17296. Cannelton, Pennsylvania. Lesquereux, 1884, p. 708, pl. 92: fig. 5.

Calamopitys

americana Scott and Jeffrey. Devonian. 41242-44. Junction City, Kentucky. Read, 1937, p. 81, pl. 16: fig. 1; pl. 17: figs. 1-4; pl. 26: figs. 2, 5.

foersteri Read. Devonian. 41248. Junction City, Kentucky. Read, 1936, p. 219, fig. 6; 1937, p. 83, pl. 19: figs. 1-3.

Calamostachys

brevifolia Lesquereux. Pennsylvanian (Allegheny). 18358. Cannelton, Pennsylvania. Lesquereux, 1884, p. 718, pl. 89: fig. 5.

lanceolata Lesquereux. Pennsylvanian (Pottsville). 18062-63, 18276. Washington County, Arkansas, and Dade County, Georgia. Lesquereux, 1884, p. 715, pl. 91: figs. 1, 2; pl. 93: fig. 1.

ovalis Lesquereux. Pennsylvanian (Pottsville). 18054, 18095. Dade County, Georgia. Lesquereux, 1884, p. 717, pl. 89: figs. 3, 4.

Calcareous algae

Mississippian (Pocono). 40248. Cleveland, Virginia. Butts, 1941, pl. 127: fig. 26.

Calcisphaera

lemoni Knowlton, Early Devonian ("Corniferous"). 3664. Falls of the Ohio, Indiana. Knowlton, 1889, pp. 202-209, figs. 1-3.

Callipteridium

aldrichi Lesquereux. Pennsylvanian (Pottsville). 11238, 11242, 12087. Jefferson Mines, Alabama. Lesquereux, 1880, p. 106, pl. 39: figs. 1-3.

inaequale Lesquereux. Pennsylvanian (Cherokee). 5603, 6093, 6111. Henry County, Missouri. White, 1899a, p. 123, pl. 39: fig. 4; pl. 41: fig. 1d; pl. 42: fig. g.

inaequale Lesquereux. Pennsylvanian (Allegheny). 11916-20. Cannelton Pennsylvania. Lesquereux, 1880, p. 168, pl. 33: figs. 2-5.

mansfieldi Lesquereux. Pennsylvanian (Allegheny). 11930-32. Cannelton, Pennsylvania. Lesquereux, 1880, p. 166, pl. 27: figs. 1, 2.

membranaceum Lesquereux. Pennsylvanian (Cherokee). 5625, 5691, 5810, 13181-82, 13187. Henry County, Missouri. Lesquereux, 1880, p. 172, pl. 27: figs. 4-6.—White, 1899a, p. 120, pl. 38: figs. 1-5. cf. *C. membranaceum* Lesquereux (counterpart). Pennsylvanian. 41986. Georgia. Allen and Lester, 1954, pl. 35: fig. 9.

neuropteroides Lesquereux. Pennsylvanian (Allegheny). 11878-79. Mazon Creek, Illinois. Lesquereux, 1880, p. 166, pl. 27: fig. 3.

rigidum Lesquereux. Pennsylvanian ("Anthracite" Series). 13601-02. Olyphant, Pennsylvania. Lesquereux, 1884, p. 746, pl. 99: figs. 1, 2.

sinuatum (Brongniart) Lesquereux. Pennsylvanian (Allegheny). 13605-06. Mazon Creek, Illinois. Lesquereux, 1884, p. 745, pl. 99: fig. 3.

sullivanti Lesquereux. Pennsylvanian (Cherokee). 3589, 5479, 5481-82, 5660. Henry County, Missouri. White, 1899a, p. 123, pl. 39: figs. 1, 2; pl. 41: figs. 1-3.

species. Pennsylvanian (Pottsville). 40851, 40853, 40855, 40857. Bloomington quadrangle, Indiana. Jackson, 1917, p. 419, pl. 3: figs. 5, 7; pl. 4: figs. 2, 4.

Callipteris

cf. *C. adzvensis* Zalesky. Permian (Vale). 41778, 41847. 2 miles east of Abilene, Texas. Read and Mamay, 1964, pl. 19: figs. 5, 6.

arizonae White. Permian (Hermit). 38027. Grand Canyon, Arizona. White, 1929, p. 50, pl. 13.

conferta (Sternberg) Brongniart. Permian (Hermit). 38026. Grand Canyon, Arizona. White, 1929, p. 47, pl. 11: figs. 1, 2; pl. 12: figs. 3-5; pl. 17: fig. 4.

conferta (Sternberg) Brongniart. Permian (Abo). 41224. Spanish Queen mine, 6 miles southwest of Jemez Springs, New Mexico. Read and Mamay, 1964, pl. 13: fig. 5.

sp. cf. *C. flabellifera* (Weiss) Zeiller. Permian (Belle Plains). 41769. Emily Irish grant, Baylor County, Texas. Read and Mamay, 1964, pl. 17: fig. 2.

lyratifolia Zeiller. Early Permian. 41225. 1 mile south of Coyote Post Office, Rio Arriba County, New Mexico. Read and Mamay, 1964, pl. 13: fig. 4.

raymondi Zeiller. Permian (Hermit). 38028. Grand Canyon, Arizona. White, 1929, p. 52, pl. 12: fig. 2; pl. 36: fig. 3.

Callipteris?

species. Permian (Hermit). 38029. Grand Canyon, Arizona. White, 1929, p. 53, pl. 35: figs. 1, 2.

Callithamnopsis

fruticosa (Hall) Whitfield. Ordovician. 41088–89. Platteville, Wisconsin. Whitfield, 1894, p. 354, pl. 11: figs. 4–7.

Calymmatotheca

species. Mississippian (Stanley). 39412. De Queen quadrangle, Arkansas. White, 1936c, p. 64. pl. 14: figs. 1, 9.

Cantheliophorus

cultriformis (Lesquereux) Bassler. Pennsylvanian (Allegheny). 16087–88. Cannelton, Pennsylvania. Bassler, 1919, p. 98, pl. 9: figs. 5–7.

linearifolius (Lesquereux) Bassler. Pennsylvanian (Pottsville). 16069. Pittston, Pennsylvania. Bassler, 1919, pp. 97–98, pl. 9: figs. 1, 2.

pugiatus Bassler. Pennsylvanian (Pottsville). 16108. Pittston, Pennsylvania. Bassler, 1919, p. 101, pl. 10: fig. 27.

subulatus Bassler. Pennsylvanian (Cherokee). 16095–96. Lansing, Kansas. Bassler, 1919, pp. 98–99, pl. 9: fig. 12.

Cardiocarpon

acuminatum Jackson. Pennsylvanian (Pottsville?). 40898. Clay City quadrangle, Indiana. Jackson, 1917, p. 422, pl. 9: fig. 9.

akroni Read. Pennsylvanian (Pottsville). 25382. Akron, Ohio. Read, 1946, p. 22, pl. 2: fig. 5.—Read and Mamay, 1964, pl. 7: fig. 2.

annularis (Sternberg) Lesquereux. Pennsylvanian (Pottsville). 25801–03. Pittston, Pennsylvania. Lesquereux, 1884, p. 814, pl. 110: figs. 28–30.

annulatum Newberry. Pennsylvanian (Pottsville). 25441–42. Pittston, Pennsylvania. Lesquereux, 1880, p. 564, pl. 85: figs. 36, 37.

annulatum? Newberry. Pennsylvanian (Pottsville). 40887. Clay City quadrangle, Indiana. Jackson, 1917, p. 421, pl. 8: fig. 4.

barcellosum White. Early Permian. 32022. Rio Grande do Sul, Brazil. White, 1908, p. 567, pl. 10: fig. 11.

bicuspidatum (Sternberg) Newberry. Pennsylvanian (Pottsville). 40880, 40886. Clay City quadrangle, Indiana. Jackson, 1917, p. 424, pl. 7: fig. 6; pl. 8: fig. 3.

branneri White. Pennsylvanian (Cherokee). 6097. Henry County, Missouri. White, 1899a, p. 266, pl. 61: fig. 1e.

circularis Lesquereux. Pennsylvanian (Allegheny). 25592. Vermillion County, Indiana. Lesquereux, 1884, p. 812, pl. 110: fig. 10.

commune Jackson. Pennsylvanian (Pottsville). 40910. Clay City quadrangle, Indiana. Jackson, 1917, p. 423, pl. 10: fig. 11.

conglobatus Lesquereux. Pennsylvanian (Pottsville). 25565. Arkansas. Lesquereux, 1884, p. 810, pl. 109: fig. 11.

cordatum Jackson. Pennsylvanian (Pottsville). 40899, 40909. Clay City quadrangle, Indiana. Jackson, 1917, p. 423, pl. 9: fig. 10; pl. 10: fig. 10.

cornutum Dawson. Pennsylvanian (Pottsville). 40974. Pottsville Gap, Pennsylvania. White, 1900, p. 908, pl. 193: fig. 10.

crassus Lesquereux. Pennsylvanian (Pottsville). 25598–602. Pittston, Pennsylvania. Lesquereux, 1884, p. 812, pl. 109: fig. 12; pl. 110: figs. 6–9.

cuneatum Jackson. Pennsylvanian (Pottsville). 40905, 40907. Clay City quadrangle, Indiana. Jackson, 1917, p. 423, pl. 10: figs. 4, 6.

dilatatus Lesquereux. Pennsylvanian (Pottsville). 25384. Washington County, Arkansas. Lesquereux, 1884, p. 806, pl. 110: fig. 2.

diminutivus Lesquereux. Pennsylvanian (Pottsville). 26418. Pittston, Pennsylvania. Lesquereux, 1880, p. 570, pl. 85: fig. 48.

diplostesta Lesquereux. Pennsylvanian (Pottsville). 25672. Pittston, Pennsylvania. Lesquereux, 1884, p. 812, pl. 110: fig. 13.

divergens Lesquereux. Pennsylvanian ("Anthracite" Series). 25511–12. Pittston, Pennsylvania. Lesquereux, 1884, p. 811, pl. 110: fig. 4.

- ellipticus* (Sternberg) Lesquereux. Pennsylvanian (Allegheny). 25888–89. Cannelton, Pennsylvania. Lesquereux, 1884, p. 814, pl. 110: figs. 23, 24.
- ellipticus* (Sternberg) Lesquereux. Pennsylvanian (Pottsville). 25786–88. Pittston, Pennsylvania. Lesquereux, 1884, p. 814, pl. 110: figs. 25–27.
- elongatus* Newberry. Pennsylvanian (Pottsville). 25714. Pittston, Pennsylvania. Lesquereux, 1884, p. 804, pl. 109: fig. 16.
- girtyi* White. Pennsylvanian (Pottsville). 40979. New Lincoln colliery, Pennsylvania. White, 1900, p. 907, pl. 193: fig. 11.
- gracile* Jackson. Pennsylvanian (Pottsville). 40906. Clay City quadrangle, Indiana. Jackson, 1917, p. 423, pl. 10: fig. 5.
- harveyi* Lesquereux. Pennsylvanian (Pottsville). 26158–59. Washington County, Arkansas. Lesquereux, 1884, p. 808, pl. 109: figs. 22, 23.
- ingens* Lesquereux. Pennsylvanian (Pottsville). 25417. Washington County, Arkansas. Read, 1946, p. 22, pl. 2: fig. 4.
- irregularis* Jackson. Pennsylvanian (Pottsville). 40908a–b. Clay City quadrangle, Indiana. Jackson, 1917, p. 422, pl. 10: figs. 8, 9.
- late-alatus* Lesquereux. Pennsylvanian (Pottsville). 25685. Pittston, Pennsylvania. Lesquereux, 1880, p. 568, pl. 85: fig. 46.
- littoralis* Lesquereux. Pennsylvanian (Pottsville). 25585–86. Rockwood and Tracy, Tennessee. Lesquereux, 1884, p. 811, pl. 110: figs. 11, 12.
- longicollis* Lesquereux. Pennsylvanian (Pottsville). 26165. Dade County, Georgia. Lesquereux, 1884, p. 808, pl. 109: fig. 24.
- moreiranum* White. Early Permian. 32019. Santa Catharina, Brazil. White, 1908, p. 563, pl. 10: fig. 10.
- obtusum* Jackson. Pennsylvanian (Pottsville). 40911. Clay City quadrangle, Indiana. Jackson, 1917, p. 426, pl. 10: fig. 13.
- oliveiranum* White. Early Permian. 32021. Santa Catharina, Brazil. White, 1908, p. 565, pl. 10: fig. 9.
- ovalis* Lesquereux. Pennsylvanian (Pottsville). 25516–17. Washington County, Arkansas. Lesquereux, 1884, p. 810, pl. 109: fig. 9.
- ovaloidum* Jackson. Pennsylvanian (Pottsville). 40872. Bloomington quadrangle, Indiana. Jackson, 1917, p. 425, pl. 6: fig. 2.
- pachytesta* Lesquereux. Pennsylvanian (Pottsville). 25482–86. Pittston, Pennsylvania. Lesquereux, 1884, p. 809, pl. 109: figs. 13–15.
- pachytestum* Lesquereux. Pennsylvanian (Pottsville). 40869. Bloomington quadrangle, Indiana. Jackson, 1917, p. 422, pl. 5: fig. 9.
- patens* Lesquereux. Pennsylvanian (Pottsville). 25504. Washington County, Arkansas. Lesquereux, 1884, p. 807, pl. 110: fig. 3.
- phillipsi* Read. Pennsylvanian (Forkston coal). 25390–91, 25396. Dutch Mountain, Pennsylvania. Read, 1946, p. 20, pl. 2: figs. 1–3.
- pusillus* Lesquereux. Pennsylvanian (“Anthracite” Series). 25862. Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 815, pl. 110: fig. 33.
- pusillus* Lesquereux. Pennsylvanian (Allegheny). 25923–24. Cannelton, Pennsylvania. Lesquereux, 1884, p. 815, pl. 110: figs. 31, 32.
- rugosum* Jackson. Pennsylvanian (Pottsville). 40871. Bloomington quadrangle, Indiana. Jackson, 1917, p. 425, pl. 6: fig. 1.
- seixasi* White. Early Permian. 32010–13. Santa Catharina, Brazil. White, 1908, p. 559, pl. 10: figs. 5–8.
- speciosus* Lesquereux. Pennsylvanian (Allegheny). 26205. Cannelton, Pennsylvania. Lesquereux, 1884, p. 807, pl. 110: fig. 1.
- subcirculare* Jackson. Pennsylvanian (Pottsville). 40888. Clay City quadrangle, Indiana. Jackson, 1917, p. 424, pl. 8: fig. 5.
- zonulatus* Lesquereux. Pennsylvanian (Pottsville). 25678–80. Pittston, Pennsylvania. Lesquereux, 1880, p. 568, pl. 85: figs. 44, 45.
- species indeterminate. Pennsylvanian (Pottsville). 40868. Bloomington quadrangle, Indiana. Jackson, 1917, p. 424, pl. 5: fig. 8.

Cardiopteris

- abbensis* Read. Mississippian (Mauch Chunk). 40680–82. Abb’s Valley, West Virginia. Read, 1955, p. 28, pl. 2: figs. 1–3.
- antecedens* Read. Mississippian (Pocono). 40645, 40690. Pottsville, Pennsylvania. Read, 1955, p. 22, pl. 9: figs. 1, 2.
- hirta* White. Mississippian (Wedington). 39478–81. Winslow quadrangle, Arkansas. White, 1936b, p. 19, pl. 4: figs. 29, 31, 32, 35, 37.
- irregularis* Read. Mississippian (Pocono). 40663–64. Wythe County, Virginia. Read, 1955, p. 21, pl. 10: figs. 1, 2.
- species. Mississippian (Wedington). 39483. Winslow quadrangle, Arkansas. White, 1936b, p. 20, pl. 4: figs. 40, 41.

Carpolithes

butlerianus Lesquereux. Pennsylvanian (Pottsville). 26355. Pittston, Pennsylvania. Lesquereux, 1884, p. 824, pl. 111: fig. 19.

cerasiformis Sternberg. Pennsylvanian (Allegheny). 26371. Cannelton, Pennsylvania. Lesquereux, 1884, p. 824, pl. 111: fig. 18.

confinis White. Devonian. 36470. Perry, Maine. Smith and White, 1905, p. 78, pl. 4: fig. 11.

conicus Lesquereux. Pennsylvanian. 26483. Shamokin, Pennsylvania. Lesquereux, 1884, p. 824, pl. 111: fig. 17.

granularis Sternberg. Pennsylvanian. 25757–58. Pittston, Pennsylvania, and Osage, Kansas. Lesquereux, 1884, p. 825, pl. 111: figs. 20, 21.

laticus Lesquereux. Pennsylvanian (Pottsville). 25964–66. Pittston, Pennsylvania. Lesquereux, 1884, p. 826, pl. 110: fig. 69.

minus Sternberg. Pennsylvanian. 25851–52. Cannelton and Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 825, pl. 110: figs. 66, 67.

perpusillus Lesquereux. Pennsylvanian (Pottsville). 25950–52. Pittston, Pennsylvania. Lesquereux, 1884, p. 825, pl. 111: figs. 22–24.

transsectus Lesquereux. Pennsylvanian (Pottsville). 25810–11. Washington County, Arkansas. Lesquereux, 1884, p. 826, pl. 111: figs. 27, 27a.

Carpolithus

inquirenda White. Mississippian (Wedington). 39515–16. Winslow quadrangle, Arkansas. White, 1936b, p. 26, pl. 8: figs. 9, 10, 15.

species. Early Permian. 32023. Santa Catharina, Brazil. White, 1908, p. 589, pl. 10: fig. 12.

Caulopteris

lacoii Lesquereux. Pennsylvanian (“Anthracite” Series). 17106, 11051. Olyphant, Pennsylvania. Lesquereux, 1880, p. 344.

mansfieldi Lesquereux. Pennsylvanian (Allegheny). 17118. Cannelton, Pennsylvania. Lesquereux, 1880, p. 346, pl. 60: fig. 3.

Chaetocladus

plumula Whitfield. Ordovician. 41137. Platteville, Wisconsin. Whitfield, 1894, p. 356, pl. 11: figs. 11–13.

Chaetomorpha?

prima Whitfield. Ordovician. 41091. Platteville, Wisconsin. Whitfield, 1894, p. 355, pl. 11: figs. 9, 10.

Chlamidostachys

chesterianus White. Mississippian (Wedington). 39558–62. Winslow quadrangle, Arkansas. White, 1936b, p. 38, pl. 8: figs. 11, 17–19, 21.

Cladoxylon

dawsoni Read. Devonian (Genesee). 39275. Bristol Center, New York. Read, 1935b, pp. 493–497, figs. 1–3.

species. Devonian. 41238. Junction City, Kentucky. Read, 1936, p. 223, fig. 8.

Clasteria

australis Dana (counterpart). Pennsylvanian. 3695. Newcastle, New South Wales, Australia. Dana, 1849, p. 719, pl. 14: fig. 3.

Clepsydropsis

bertrandi Read and Campbell. Devonian. 41261. New Albany, Indiana. Read and Campbell, 1939, p. 446, pl. 3: fig. 4.

campbelli Read. Devonian. 41263. Junction City, Kentucky. Read, 1936, p. 222, figs. 11, 13.

chaneyi Read and Campbell. Devonian. 41264. New Albany, Indiana. Read and Campbell, 1939, p. 446, pl. 2: fig. 4.

titan Read. Devonian. 41262. Junction City, Kentucky. Read, 1936, p. 222, fig. 7.

?Compsopteris

species. Permian (Belle Plains and Vale). 41772, 41779. Godwins Creek, Baylor County, and Lawn, Taylor County, Texas. Read and Mamay, 1964, pl. 18: fig. 2; pl. 19: fig. 7.

Conostichus

- broadheadi* Lesquereux. Pennsylvanian. 10250. Vernon County, Missouri. Lesquereux, 1880, p. 15, pl. B: figs. 1, 2.—White, 1899a, p. 12, pl. 2: figs. 1, 2.
- broadheadi* Lesquereux. Pennsylvanian. 10251. Vernon County, Missouri. White, 1899a, p. 12, pl. 2: figs. 3–5.
- prolifer* Lesquereux. Pennsylvanian. 6035. Vernon County, Missouri. White, 1899a, p. 13, pl. 2: fig. 6.

Cordaianthus

- costatus* Lesquereux. Pennsylvanian (Allegheny). 19058. Cannelton, Pennsylvania. Lesquereux, 1880, p. 540, pl. 80: fig. 1.
- dichotomus* Lesquereux. Pennsylvanian (Cherokee). 19212. Henry County, Missouri. Lesquereux, 1880, p. 546, pl. 76: fig. 6.
- ebracteatus* Lesquereux. Pennsylvanian (“Anthracite” Series). 19216. Pittston, Pennsylvania. Lesquereux, 1884, p. 844.
- flexuosus* Lesquereux. Pennsylvanian (“Anthracite” Series). 19217–18. Pittston, Pennsylvania. Lesquereux, 1884, p. 802, pl. 109: fig. 2.
- ovatus* Lesquereux. Pennsylvanian (Cherokee). 19187. Henry County, Missouri. Lesquereux, 1880, p. 545, pl. 76: fig. 5.
- ovatus* Lesquereux. Pennsylvanian (Cherokee). 6073, 19202. Henry County, Missouri. White, 1899a, p. 262, pl. 72: figs. 1, 2.
- rugosus* Lesquereux. Pennsylvanian (“Anthracite” Series). 19214. Shamokin, Pennsylvania. Lesquereux, 1884, pp. 803–804.
- rugosus scaber* Lesquereux. Pennsylvanian (Allegheny). 19211. Mazon Creek, Illinois. Lesquereux, 1884, p. 804.
- simplex* Lesquereux. Pennsylvanian (Allegheny). 19007. Cannelton, Pennsylvania. Lesquereux, 1880, p. 538, pl. 76: fig. 4.
- spicatus* Lesquereux. Pennsylvanian (Pottsville). 19226. Pittston, Pennsylvania. Lesquereux, 1884, p. 802, pl. 109: fig. 1.

cf. *Cordaianthus*

- longibracteatus* Florin. Pennsylvanian (Spotted Ridge). 40727. Crook County, Oregon. Mamay and Read, 1956, p. 221, pl. 36: fig. 10.

species. Pennsylvanian (Pottsville?) 40897. Clay City quadrangle, Indiana. Jackson, 1917, p. 421, pl. 9: fig. 8.

Cordaicarpon

- apiculatus* Lesquereux. Pennsylvanian (Allegheny). 25322. Cannelton, Pennsylvania. Lesquereux, 1880, p. 551, pl. 83: fig. 6a.
- cinctus* Lesquereux. Pennsylvanian (“Anthracite” Series). 25346, 25379. Pittston, Pennsylvania. Lesquereux, 1884, p. 804, pl. 109: figs. 5, 6.
- gutbieri* Grand'Eury. Pennsylvanian (Allegheny). 25328–32. Cannelton, Pennsylvania. Lesquereux, 1880, p. 549, pl. 83: figs. 8–11; 1884, p. 804, pl. 109: fig. 3.
- lineatus* Lesquereux. Pennsylvanian (Allegheny). 25345. Cannelton, Pennsylvania. Lesquereux, 1884, p. 805, pl. 111: fig. 16.
- mansfieldi* Lesquereux. Pennsylvania (Allegheny). 25977–79. Cannelton, Pennsylvania. Lesquereux, 1880, p. 537, pl. 85: fig. 21; pl. 87: fig. 8.
- ovatus* Grand'Eury. Pennsylvanian (Allegheny). 25305. Cannelton, Pennsylvania. Lesquereux, 1880, p. 550, pl. 83: fig. 7.
- species. Pennsylvanian (Weber). 39162. Evans Peak, Colorado. Read, 1934, p. 88, pl. 16: fig. 6.

Cordaistrobus

- grand'euryi* Lesquereux. Pennsylvanian (Allegheny). 19168–69. Cannelton, Pennsylvania. Lesquereux, 1878, p. 328; 1880, p. 552, pl. 82: fig. 3.

Cordaites

- communis* Lesquereux. Pennsylvanian (Cherokee). 5418, 5546, 5702. Henry County, Missouri. White, 1899a, p. 260, pl. 3: fig. 1; pl. 16; pl. 46.
- communis* Lesquereux. Pennsylvanian (Cherokee). 18946–47. Clinton, Missouri. Lesquereux, 1878, p. 320.
- communis* Lesquereux. Pennsylvanian (Vandever). 41989. Durham, Georgia. Allen and Lester, 1954, pl. 36: fig. 3.
- costatus* Lesquereux. Pennsylvanian (Allegheny). 19059–60. Cannelton, Pennsylvania. Lesquereux, 1878, p. 323; 1880, p. 540, pl. 86: figs. 1, 2.

- gracilis* Lesquereux. Pennsylvanian (Allegheny). 19160. Morris, Illinois. Lesquereux, 1878, p. 322; 1880, p. 539, pl. 77: fig. 4.
- grandifolius* Lesquereux. Pennsylvanian. 19103-05. Pittston, Pennsylvania. Lesquereux, 1878, p. 318; 1880, p. 530, pl. 77: fig. 2.
- lacoiei* Lesquereux. Pennsylvanian ("Anthracite" Series). 18917-18, 18920. Pittston, Pennsylvania. Lesquereux, 1880, p. 535, pl. 87: figs. 2-4.
- mansfieldi* Lesquereux. Pennsylvanian (Allegheny). 19007, 19017, 25978, 27150. Cannelton, Pennsylvania. Lesquereux, 1878, p. 321; 1880, p. 537, pl. 76: fig. 4; pl. 78: fig. 1; pl. 87: fig. 8.
- radiatus* Lesquereux. Pennsylvanian (Allegheny). 18907-08, 18911. Cannelton, Pennsylvania. Lesquereux, 1880, p. 540, pl. 87: figs. 5, 6.
- robbei* Dawson. Pennsylvanian (Pottsville). 40883. Clay City quadrangle, Indiana. Jackson, 1917, p. 420, pl. 7: fig. 9.
- serpens* Lesquereux. Pennsylvanian (Allegheny). 19033-36. Cannelton, Pennsylvania. Lesquereux, 1878, p. 324; 1880, p. 542, pl. 79: figs. 1-4.
- serpens* Lesquereux. Pennsylvanian. 41985. Georgia. Allen and Lester, 1954, pl. 37: fig. 5.

cf. *Coronostoma*

- Pennsylvanian (McLeansboro). 41207. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: fig. 31.

Crocalophyton

- readi* Andrews and Alt. Devonian-Mississippian. 40797-98. Boston, Kentucky. Andrews and Alt, 1956, pp. 355-371, pls. 4-10.

Cryptozoon or *Greysonia*(?)

- Paleozoic. 41139. Shelby, Alabama. Butts, 1926, pl. 9: fig. 17.

Cryptozoon

- bassleri* Wieland. Cambrian-Ordovician ("Ozarkian"). 41090. Upper Conococheague, Pennsylvania. Wieland, 1914, p. 239, pl. 18: fig. 1.
- proliferum* fruit conceptacles. Early Ordovician. 41138. Scotia, Pennsylvania. Wieland, 1914, p. 244, fig. 2.

Cyclocarpon

- species. Permian (Hermit). 38064. Grand Canyon, Arizona. White, 1929, p. 113, pl. 49: fig. 4.

Cyclopteris

- cf. *C. acadica*. Devonian. 8326. Yates County, New York. Penhallow, 1893, p. 107, pl. 9: fig. 2.
- alleghanensis* Meek. Mississippian (Pocono). 2009. Lewis tunnel, Virginia. Meek, 1875, p. 43, pl. 1: fig. 2.
- halliana* Goepfert. Devonian. 41131. Chemung County, New York. Hall, 1843, p. 274, illustr. 127: fig. 1.
- lescuriana* Meek. Mississippian (Pocono). 1447. Lewis tunnel, Virginia. Meek, 1875, p. 41, pl. 2: fig. 1.
- virginiana* Meek. Mississippian (Pocono). 2008. Lewis tunnel, Virginia. Meek, 1875, p. 43, pl. 1: fig. 3.

Cylindrites

- striatus* Lesquereux. Devonian (Waverly). 7153. Berea, Ohio. Lesquereux, 1890, p. 7, pl. 1: fig. 3.

Cystosporites

- varius* (Wicher) Dijkstra. Pennsylvanian (Secor coal). 41196. McAlester, Oklahoma. Mamay and Yochelson, 1962, pl. 33: fig. 20.

Dactylophyllum

- johnsoni* Read. Pennsylvanian (Weber). 39157. Evans Peak, Colorado. Read, 1934, p. 91, pl. 18: figs. 2, 3.

Dadoxylon?

- meridionale* White. Early Permian. 32043a-c. Rio Grande do Sul, Brazil. White, 1908, p. 583, pl. 14: figs. 1-4.
- nummularium* White. Early Permian. 32045a, 32045c. Rio Grande do Sul, Brazil. White, 1908, p. 579, pl. 13: figs. 1-4.

Danaeites

- emersoni* Lesquereux. Pennsylvanian (Monongahela). 12710-11. St. Clairsville, Ohio. Lesquereux, 1880,

p. 157, pl. 28: figs. 1, 2.—Read and Mamay, 1964, pl. 11: fig. 3.

emersoni Lesquereux. Late Pennsylvanian. 41764. Lonaconing, Maryland. Read and Mamay, 1964, pl. 12: fig. 1.

macrophyllus (Newberry) Lesquereux. Pennsylvanian. 12718. Youngstown, Ohio. Lesquereux, 1880, p. 159, pl. 25: figs. 4–6.

Daubreeia

pateraeformis (Germar) Zeiller. Pennsylvanian. 9667, 9682, 9686. Onaga, Kansas. Sellards, 1908, p. 433, pl. 52: figs. 1, 2; pl. 55: fig. 4.

Dechenia

striata Lesquereux. Pennsylvanian (Allegheny). 10259. Alto, Illinois. Lesquereux, 1880, p. 430, pl. 67: fig. 3.

Derbyella

aurita White. Early Permian. 31991–93. Santa Catharina, Brazil. White, 1908, p. 545, pl. 9: figs. 1–3.

Desmiophyllum

gracile Lesquereux. Pennsylvanian (Allegheny). 19251. Cannelton, Pennsylvania. Lesquereux, 1878, p. 333; 1880, p. 557, pl. 82: fig. 1.

Dichophyllum

moorei Elias. Pennsylvanian. 41141. Garnett, Kansas. Elias, 1936, fig. 7, illustr. 2.

?*Dichophyllum*

species. Permian (Abo). 41221. Spanish Queen mine, 6 miles southwest of Jemez Springs, New Mexico. Read and Mamay, 1964, pl. 13: fig. 1.

Dicranophyllum

dichotomum Lesquereux. Pennsylvanian (Allegheny). 25108. Cannelton, Pennsylvania. Lesquereux, 1880, p. 553, pl. 87: fig. 9.

dimorphum Lesquereux. Pennsylvanian (Allegheny). 25104–06. Cannelton, Pennsylvania. Lesquereux, 1878, pp. 329–330; 1880, p. 554, pl. 83: figs. 1, 3.

rigidum Mamay and Read. Pennsylvanian (Spotted Ridge). 40733–740. Crook County, Oregon. Mamay and Read, 1956, p. 219, pl. 37: figs. 3–10.

species. Pennsylvanian (Cherokee). 6076. Henry County, Missouri. White, 1899a, p. 272, pl. 41: fig. 10; pl. 73: fig. 1.

Dictyo-cordaites

lacoiei Dawson. Devonian (Catskill). 10200. Meshoppen, Pennsylvania. Dawson, 1889, pp. 1–3, illustr.; 1890, p. 3, fig. 1.

Dictyotites

fasciolus Penhallow. Devonian (Erian). 5406, 25098. West Hurley, New York. Penhallow, 1893, p. 110, pl. 10: fig. 10a; pl. 12: fig. 10b.

maximus Penhallow. Devonian (Marcellus). 5407. Cayuga Lake, New York. Penhallow, 1893, p. 111, pl. 11: fig. 11.

Düchnia

kentuckiensis Read. Devonian (New Albany). 41245–47. Junction City, Kentucky. Read, 1935a, pl. 30: figs. 1–5; pl. 31: fig. 1–4; pl. 32: figs. 1–8; pl. 33: figs. 1–3, 5, 6.

Dimeripteris

incerta (Dawson) White. Devonian. 36454–56. Perry, Maine. Smith and White, 1905, p. 53, pl. 2: figs. 7–9.

recurva (Dawson) White. Devonian. 36451–53. Perry, Maine. Smith and White, 1905, p. 56, pl. 2: figs. 4–6.

Diplothmema

aldrichi White. Pennsylvanian (Pottsville). 15031, 15044, 40093. Birmingham quadrangle and Warrior, Alabama. White, 1943, p. 97, pl. 31: figs. 3, 7; pl. 34: fig. 3.

aldrichi anthracitica White. Pennsylvanian (Pottsville). 40091a–b. Pottsville Gap, Pennsylvania. White, 1943, p. 98, pl. 33: figs. 6, 9; pl. 34: fig. 2.

cheathamii (Lesquereux) White. Pennsylvanian (Pottsville). 15026–27, 15039, 40104, 40106a–b. Tracy, Tennessee, and Blossburg, Alabama. White, 1943, p. 95, pl. 28: figs. 1–3, 5–10.

- cheathamii antiqua* White. Pennsylvanian (Pottsville). 40105a-b. Tazewell quadrangle, West Virginia. White, 1943, p. 96, pl. 28: figs. 4, 12.
- cheathamii minor* White. Pennsylvanian (Pottsville). 40111a-b. Buckhannon quadrangle, West Virginia. White, 1943, p. 96, pl. 28: figs. 11, 13.
- composita* White. Pennsylvanian (Pottsville). 40099a-d, 42005. Bluestone Junction, West Virginia. White, 1943, p. 99, pl. 32: figs. 4-7.
- erectiloba* White. Pennsylvanian (Pottsville). 40092. Tazewell quadrangle, West Virginia. White, 1943, p. 100, pl. 33: figs. 7-8.
- geniculatum* (Germar and Kaulfuss) Stur. Pennsylvanian. 41013-14. Belleville, Missouri. White, 1893a, pp. 44-46, pl. 1: figs. 1, 2.
- glenni* White. Pennsylvanian (Pottsville). 40128a-f. Wayne County, West Virginia. White, 1943, p. 95, pl. 27: figs. 10-17.
- halberstadtii* White. Pennsylvanian (Pottsville). 40107a-b. Pottsville, Pennsylvania. White, 1943, p. 96, pl. 30: figs. 1, 2.
- mendenhalli* White. Pennsylvanian (Pottsville). 40103a-b, 42007. Horsepen, Virginia. White, 1943, p. 100, pl. 35: figs. 8, 10.
- microphylla* (Lesquereux) White. Pennsylvanian (Pottsville). 40108-10, 42006. Tremont, Pennsylvania; Tuscaloosa and Montevallo, Alabama. White, 1943, p. 94, pl. 30: figs. 3, 5-7.
- minor* White. Pennsylvanian (Pottsville). 40095. McKean County, Pennsylvania. White, 1943, p. 98, pl. 31: fig. 6.
- morrowensis* White. Pennsylvanian (Pottsville). 15012, 40100. Washington County, Arkansas, and Raleigh quadrangle, West Virginia. White, 1943, p. 99, pl. 35: fig. 1; pl. 34: fig. 1.
- obtusiloba* (Brongniart) Stur. Pennsylvanian (Pottsville). 40102a-c. Careyville, Tennessee. White, 1943, p. 97, pl. 30: fig. 4; pl. 35: figs. 7, 9.
- patentissima* (Ettinghausen) Stur. Pennsylvanian (Weber). 39153. Evans Peak, Colorado. Read, 1934, p. 87, pl. 16: fig. 3.
- pudica* White. Early Pennsylvanian. 40088. Horsepen, Virginia. White, 1943, p. 96, pl. 29: fig. 4.
- pygmaeoides* White. Pennsylvanian (Pottsville). 40101a, b, d. Winston, West Virginia. White, 1943, p. 100, pl. 35: figs. 3, 5, 6.
- reniformis* White. Pennsylvanian (Pottsville). 40094a-c. Middlesboro, Kentucky. White, 1943, p. 97, pl. 31: figs. 1, 2, 4, 5.
- spectabilis* White. Pennsylvanian (Pottsville). 40087a-e. Estellville quadrangle, Virginia. White, 1943, p. 96, pl. 29: figs. 1-3, 5, 6.
- subdecepiens* White. Pennsylvanian (Kanawha). 40077a-b. Kanawha Falls quadrangle, West Virginia. White, 1943, p. 95, pl. 11: figs. 9-11.
- trifoliolata* (Artis) Stur. Pennsylvanian (Kanawha). 40096-98. Kanawha Falls quadrangle, West Virginia. White, 1943, p. 98, pl. 32: figs. 1-3.
- trifoliolata kanawensis* White. Pennsylvanian (Kanawha). 13618, 13622, 40089-90. Kanawha County, West Virginia. White, 1943, p. 98, pl. 33: figs. 1-5.

Discinites

species. Permian (Belle Plains). 40626-29. Baylor County, Texas. Mamay, 1954a, pp. 7-11, figs. 1-5.

Dolerophyllum

pennsylvanica Dawson. Pennsylvanian. 19617-18. Mazon Creek, Illinois, and Olyphant, Pennsylvania. Dawson, 1890, pp. 7-8.

Doleroptersis

pennsylvanica (Dawson) White. Pennsylvanian (LeRoy). 19620-21. Lawrence and Garnett, Kansas. White, 1903, p. 107.

Eltovaria

bursiformis White. Permian (Hermit). 38066. Grand Canyon, Arizona. White, 1929, p. 114, pl. 50: fig. 4.

Equisetites

calamitinoides White. Early Permian. 31913. Santa Catharina, Brazil. White, 1908, p. 419, pl. 5: fig. 7.

gracilis Lesquereux. Pennsylvanian (Pottsville). 18236. Dade County, Georgia. Lesquereux, 1884, p. 729, pl. 90: fig. 5.

occidentalis Lesquereux. Pennsylvanian (Allegheny). 18250, 18252. Mazon Creek, Illinois. Lesquereux, 1880, p. 62, pl. 3: figs. 15, 16.

Eremopteris

- artemisiaefolia* (Sternberg) Schimper. Pennsylvanian (Pottsville). 15095. Blossburg, Pennsylvania. White, 1943, p. 92, pl. 25: figs. 4, 5.
- bilobata* White. Pennsylvanian (Cherokee). 5699–5701, 6036. Henry County, Missouri. White, 1899a, p. 19, pl. 4; pl. 5: figs. 4–6.
- cheathamii* Lesquereux. Pennsylvanian (Pottsville). 15009, 15025–27. Washington County, Arkansas, and Tracy, Tennessee. Lesquereux, 1884, p. 770, pl. 104: figs. 2–4.
- crenulata* Lesquereux. Pennsylvanian (Pottsville). 40146. Brookville, Alabama. White, 1943, p. 90, pl. 23: fig. 10.
- elegans* (Ettinghausen) Lesquereux. Pennsylvanian. 15083. Port Byron, Illinois. Lesquereux, 1880, p. 294, pl. 53: fig. 7.
- gracilis* White. Pennsylvanian (Pottsville). 40129a–e, 40130, 40133a–b. Corbin, Kentucky; Coeburn, Virginia; Kanawha Falls quadrangle, West Virginia. White, 1943, p. 91, pl. 25: figs. 6, 7; pl. 26: figs. 1–10.
- lincolniana* White. Pennsylvanian (Pottsville). 40135–140. Dorchester, Virginia, and various West Virginia localities. White, 1943, p. 91, pl. 24: figs. 1–8.
- lincolniana* White. Pennsylvanian (Pottsville). 40960. New Lincoln mine, Pennsylvania. White, 1900, p. 869, pl. 192: fig. 1.
- lincolniana antiqua* White. Pennsylvanian (Pottsville). 40134a–b, 42078. Littleton Station, Alabama. White, 1943, p. 91, pl. 25: figs. 8–10.
- microphylla* Lesquereux. Pennsylvanian. 41993. Georgia. Allen and Lester, 1954, pl. 34: fig. 2.
- missouriensis* Lesquereux. Pennsylvanian (Cherokee). 30853. Henry County, Missouri. Lesquereux, 1880, p. 295, pl. 53: fig. 8.
- missouriensis* Lesquereux. Pennsylvanian (Cherokee). 5657, 5659, 5670, 5681. Henry County, Missouri. White, 1899a, p. 16, pl. 5: figs. 1–3; pl. 6: fig. 1.
- neffi* White. Pennsylvanian (Pottsville). 40143a–c, 40144. Nicholas quadrangle, West Virginia, and Mahoning County, Ohio. White, 1943, p. 90, pl. 23: figs. 1–5.
- solida* (Lesquereux) White. Pennsylvanian (Allegheny). 14213–14. Mazon Creek, Illinois. White, 1903, p. 88.
- strigosa* White. Pennsylvanian (Pottsville). 40145. Rush Run, West Virginia. White, 1943, p. 90, pl. 23: figs. 6, 7.

subelegans White. Pennsylvanian (Pottsville). 40141–42. Washington County, Arkansas, and Pottsville Gap, Pennsylvania. White, 1943, p. 91, pl. 24: figs. 9–11.

trappensis White. Pennsylvanian (Pottsville). 40127a–h. Trap Hill, West Virginia. White, 1943, p. 92, pl. 27: figs. 1–9.

Ernestiodendron

filiciforme (Schlotheim pars.) Florin. Permian (Wichita). 41297. 8 miles north of Dundee, Texas. Florin, 1939, pls. 125–126: figs. 5, 6.

Fern rachids

Mississippian. 39395–98. De Queen quadrangle, Arkansas. White, 1936c, p. 64, pl. 10: figs. 24–25; pl. 11: figs. 24, 27.

Fern?

Devonian. 8324. Bristol Center, New York. Penhallow, 1893, p. 107, pl. 9: fig. 1.

Fryopsis

abbensis (Read) Wolfe. Mississippian (Bluefield). 40680. Abbs Valley, Tazewell County, Virginia. Read and Mamay, 1964, pl. 3: fig. 1.

Fucoides?

duplex Hall. Late Cambrian. 41129. Pictured Rocks, Lake Superior. Foster and Whitney, 1851, p. 226, pl. A23.

Fucoides

cauda-galli Vanuxem. Devonian. 41132. New York. Vanuxem, 1839, p. 128, fig. 30.

Gangamopteris

obovata (Carruthers) White. Early Permian. 31963–70. Santa Catharina, Brazil. White, 1908, p. 525, pl. 8: figs. 1–7.

Gigantopteris

americana White. Permian (Wichita). 34061–79, 34081–83. Fulda, Texas. White, 1912, pp. 514–15, 16, pl. 43; pl. 44; pl. 45; pl. 46: figs. 1–3; pl. 47: figs. 1–4; pl. 48: figs. 1–6; pl. 49: figs. 1–7.

americana White. Early Permian. 41167, 41176. Glasscock County, Texas. Adams, 1933, p. 1391, fig. 1.

americana White. Permian (Belle Plains). 41768. Emily Irish grant, Baylor County, Texas. Read and Mamay, 1964, pl. 17: fig. 1.

americana White. Permian (Clyde). 41771. Fulda, Texas. Read and Mamay, 1964, pl. 18: fig. 1.

new species A. Permian (Lueders). 41775. Lake Kemp spillway, Baylor County, Texas. Read and Mamay, 1964, pl. 19: fig. 1.

new species B. Permian (Vale). 41776. Lawn, Taylor County, Texas. Read and Mamay, 1964, pl. 19: fig. 2.

Girtya

pennsylvanica Read. Mississippian (Pocono). 40651, 40696–97. Tionesta, Pennsylvania. Read, 1955, p. 21, pl. 15: figs. 1–3; pl. 16: fig. 3.

Glenopteris

lineata Sellards (counterpart). Permian. 7746. Dickinson County, Kansas. Sellards, 1900, p. 185, pl. 37: fig. 3.

simplex Sellards (counterpart). Permian. 8082. Dickinson County, Kansas. Sellards, 1900, p. 184, pl. 39: fig. 1.

simplex Sellards. Permian (Wellington). 41766. Banner City, Kansas. Read and Mamay, 1964, pl. 16: fig. 2.

splendens Sellards. Permian (Wellington). 8074, 41767. 3 miles south of Banner City and 3½ miles southeast of Elmo, Kansas. Read and Mamay, 1964, pl. 16: figs. 3, 4.

Glossopteris

ampla Dana. Permian. 41296. New South Wales, Australia. Dana, 1849, p. 717, pl. 13: fig. 1b.

ampla Dana. Early Permian. 31943. Santa Catharina, Brazil. White, 1908, p. 509, pl. 6: fig. 9.

cf. *G. ampla* Dana. Early Permian (Tubaraco Series). 40623. Santa Catharina, Brazil. Read, 1941, p. 77, pl. 4: figs. 3, 5.

browniana Brongniart. Permian. 1357. Newcastle, New South Wales, Australia. Dana, 1849, p. 716, pl. 12: fig. 13c.

browniana Brongniart. Permian (Tubarao and Itarare Series). 40596–97, 40619. Parana, Brazil. Read, 1941, p. 81, pl. 3: fig. 1; pl. 5: figs. 3–4, 6.

indica (Brongniart) Schimper. Early Permian. 31940–42. Santa Catharina, Brazil. White, 1908, p. 503, pl. 6: figs. 5, 7–8.

indica Schimper. Early Permian (Tubarao Series). 40598–40600. Parana and Santa Catharina, Brazil. Read, 1941, p. 79, pl. 4: figs. 1, 2, 4; pl. 5: figs. 1, 2, 5.

indica Schimper. Permian. 41998–99. Mt. Glossopteris, Antarctica. Schopf, 1962, p. 31, pl. 11: figs. 1a, 1b.

occidentalis White. Early Permian. 31944–47, 31962. Santa Catharina, Brazil. White, 1908, p. 511, pl. 7: figs. 1–4.

species. Early Permian. 31948–49. Santa Catharina, Brazil. White, 1908, p. 517, pl. 7: figs. 5, 6.

Gomphostrobus

bifidus (Geinitz) Zeiller and Potonie. Early Permian. 41155. Fairplay, Colorado. Florin, 1939, pls. 151–152: fig. 46.

bifidus (Geinitz) Zeiller and Potonie. Permian (Abo). 41223. Spanish Queen mine, 6 miles southwest of Jemez Springs, New Mexico. Read and Mamay, 1964, pl. 13: fig. 3.

Guycampbellia

microphylla (Read and Campbell) Hoskins and Cross. Mississippian (New Albany). 41276. New Albany, Indiana. Hoskins and Cross, 1951, p. 695, figs. 13–20.

Gymnospermous

ament. Permian (Hermit). 38067. Grand Canyon, Arizona. White, 1929, p. 115, pl. 51: fig. 6.

Haliserites

chondriiformis Penhallow. Devonian (late Chemung). 5405. West Hurley, New York. Penhallow, 1893, p. 110, pl. 11: fig. 9.

dechenianus lineatus Penhallow. Devonian (late Chemung). 5409. Lanesboro, Pennsylvania. Penhallow, 1893, p. 109, pl. 12: fig. 7.

lineatus Penhallow. Devonian (late Chemung). 5404, 25091. West Hurley, New York, and Factoryville, Pennsylvania. Penhallow, 1893, p. 110, pl. 10: fig. 8a; pl. 11: fig. 8b.

Haliserites?

Devonian (Erian). 8329. Monroe, New York. Penhallow, 1893, p. 107, pl. 9: fig. 4.

Halonia

mansfieldi Lesquereux. Pennsylvanian (Allegheny). 15808. Cannelton, Pennsylvania. Lesquereux, 1880, p. 414, pl. 67: fig. 2.

tortuosa Schimper. Pennsylvanian. 15811. Peoria County, Illinois. Lesquereux, 1880, p. 413, pl. 61: figs. 1, 2.

Heterangium?

species. Mississippian (Stanley). 39404–05. De Queen quadrangle Arkansas, and Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 60, pl. 11: figs. 21, 28; pl. 14: fig. 11.

Hierogamma

jeffreysi Read. Devonian. 41269. Junction City, Kentucky. Read, 1936, p. 223, fig. 10.

Hymenophyllites

adnascens Lindley and Hutton. Pennsylvanian. 40951. Colchester, Illinois. Lesquereux, 1870, p. 414, pl. 16: fig. 7.

alatus Brongniart. Pennsylvanian. 41071. Colchester, Illinois. Lesquereux, 1866, p. 437, pl. 39: fig. 1.

clarki Lesquereux. Pennsylvanian (Allegheny). 40947. Mazon Creek, Illinois. Lesquereux, 1870, p. 416, pl. 16: fig. 1.

inflatus Lesquereux. Pennsylvanian. 41072. Du Quoin, Illinois. Lesquereux, 1870, p. 414, pl. 16: fig. 6.

mollis Lesquereux. Pennsylvanian (Allegheny). 40948, 40952, 40954. Mazon Creek, Illinois. Lesquereux, 1870, p. 418, pl. 18: figs. 4–6.

strongi Lesquereux. Pennsylvania (Allegheny). 19431. Mazon Creek Illinois. Lesquereux, 1870, p. 417, pl. 18: fig. 1.

thalliformis Lesquereux. Pennsylvanian. 40949–50. Mazon Creek and Colchester, Illinois. Lesquereux, 1870, p. 417, pl. 16: figs. 3, 5.

Hysterites

brasilensis White. Early Permian. 31912. Santa Catharina, Brazil. White, 1908, p. 415, pl. 5: fig. 2.

cordaites Grand'Eury. Pennsylvanian (Cherokee). 5418. Henry County, Missouri. White, 1899a, pp. 14, 260, pl. 3: fig. 1.

Ichnophycus

tridactylus Hall. Late Silurian. 41086–87. New Hartford, New York. Hall, 1852, p. 26, pl. 10: figs. 6, 7a–b.

Idiophyllum

rotundifolius Lesquereux. Pennsylvanian (Allegheny). 10258. Mazon Creek, Illinois. Lesquereux, 1880, pp. 159–161, pl. 23: fig. 11.

Kalymma

auriculata Read. Devonian. 41257. Junction City, Kentucky. Read, 1937, p. 88, pl. 23: fig. 6.

lirata Read. Devonian. 41255–56, 41258. Junction City, Kentucky, and Holy Cross, Kentucky. Read, 1936, p. 219, pl. 28: fig. 4; 1937, p. 87, pl. 23: figs. 1, 2; pl. 24: fig. 1.

resinosa Read. Devonian. 41259–60. Junction City, Kentucky. Read, 1937, p. 88, pl. 23: fig. 3; pl. 25: figs. 3, 4.

Knorria

chemungense (Hall) Arnold. Devonian (Chemung). 41128. Elmira, New York. Arnold, 1939, p. 283, pl. 2: figs. 1, 2.

compacta Lesquereux. Pennsylvanian. 15800–02. Thayer, Kansas. Lesquereux, 1884, p. 839.

Lacoea

- seriata* Read. Pennsylvanian (Forkston coal). 1626, 26213–14, 26217, 26219, 26235, 26241–42, 26247, 26249, 26251–52, 26256. Dutch Mountain, Pennsylvania. Read, 1946, p. 18, pl. 1: figs. 1–3, 5–14.
- seriata* Read. Pennsylvanian. 26261. Youngstown, Ohio. Read, 1946, p. 18, pl. 1: fig. 4.

Lebachia

- americana* Florin. Permian (Abo). 41142, 41144–54, 41280–84. Glorietta, La Cuava, and Canyoncita, New Mexico. Florin, 1939, pls. 93/94: figs. 5, 7–13, 18–23; pls. 95/96: figs. 1–17, 19, 20.
- garnettensis* Florin. Permian (Wichita). 41256. 8 miles north of Dundee, Texas. Florin, 1939, pls. 53/54: figs. 3, 4.
- garnettensis* Florin. Permian (Wichita). 41298. 4½ miles southeast of Fulda, Texas. Florin, 1939, pl. 53/54: figs. 1, 2.
- goeppertiana* Florin. Early Permian. 41160–63. Reece, Kansas. Florin, 1939, pl. 49/50: figs. 1–6.
- parvafolia* Florin. Early Permian. 41143. Glorietta, New Mexico. Florin, 1939, pl. 39/40: fig. 7.

Lepidocystis

- angularis* Lesquereux. Pennsylvanian. 25255–56. Port Griffith, Pennsylvania. Lesquereux, 1880, p. 456, pl. 69: fig. 17.
- chesterensis* White. Mississippian (Wedington). 39548. Winslow quadrangle, Arkansas. White, 1936b, p. 34, pl. 6: fig. 2.
- fraxiniformis* (Goeppert) Lesquereux. Pennsylvanian. 25165. Pittston, Pennsylvania. Lesquereux, 1880, p. 457, pl. 69: fig. 22.
- inquisitus* White. Devonian. 36471–73. Perry, Maine. Smith and White, 1905, p. 75, pl. 4: figs. 12–14.
- jenneyi* White. Pennsylvanian (Cherokee). 6055. Henry County, Missouri. White, 1899a, p. 215, pl. 59: fig. 3.
- lineatus* Lesquereux. Pennsylvanian. 25254. Port Carbon, Pennsylvania. Lesquereux, 1880, p. 454, pl. 69: fig. 4.
- missouriensis* White. Pennsylvanian (Cherokee). 6089, 6099, 41060. Henry County, Missouri. White, 1899a, p. 216, pl. 61: figs. 1b, 2; pl. 62: fig. b; pl. 64: fig. b.

- obtusus* Lesquereux. Pennsylvanian (“Anthracite” Series). 25246. Pottsville, Pennsylvania. Lesquereux, 1880, p. 455, pl. 69: figs. 6, 7.
- pectinatus* Lesquereux. Pennsylvanian (“Anthracite” Series). 25252. Pittston, Pennsylvania. Lesquereux, 1880, p. 454, pl. 69: fig. 3.
- vesicularis* Lesquereux. Pennsylvanian (“Anthracite” Series). 25228. Pittston, Pennsylvania. Lesquereux, 1880, p. 457, pl. 69: fig. 20.

?Lepidodendroid

- branchlet. Pennsylvanian (Spotted Ridge). 40730. Crook County, Oregon. Mamay and Read. 1956, p. 214, pl. 36: fig. 13.

Lepidodendron

- aculeatum* Sternberg. Pennsylvanian (Pottsville). 40885, 40901. Clay City quadrangle, Indiana. Jackson, 1917, p. 413, pl. 8: fig. 2; pl. 9: fig. 14.
- andrewsi* Lesquereux. Pennsylvanian (Allegheny). 15430. Mazon Creek, Illinois. Lesquereux, 1880, p. 389, pl. 64: fig. 6.
- boylensis* Read. Devonian. 41278. Junction City, Kentucky. Read, 1936, p. 226, pl. 29: fig. 3.
- brittsi* Lesquereux. Pennsylvanian (Cherokee). 15482, 30854. Henry County, Missouri. Lesquereux, 1880, pl. 368, pl. 63: figs. 1, 2.
- brittsi* Lesquereux. Pennsylvanian (Cherokee). 5640, 6039–40, 6042, 15488. Henry County, Missouri. White, 1899a, p. 188, pl. 52: figs. 1, 3; pl. 53: fig. 1; pl. 54: figs. 1, 2.
- chemungense* (Hall) Hall. Devonian. 41128. Elmira, New York. Hall, 1863, p. 113: fig. 6.
- choctavense* White. Pennsylvanian (McAlester). 6680, 6752. McAlester, Oklahoma. White, 1899b, p. 528, pl. 68: fig. 14.
- clypeatum* Lesquereux. Pennsylvanian (Pottsville). 40867. Bloomington quadrangle, Indiana. Jackson, 1917, p. 412, pl. 5: fig. 7.
- corrugatum* Dawson. Mississippian. 41095. Akron, Ohio. Dawson, 1862, p. 313, pl. 12: fig. 10.
- cuspidatum* Lesquereux. Pennsylvanian (“Anthracite” Series). 15437. Plymouth, Pennsylvania. Lesquereux, 1880, p. 388, pl. 64: fig. 7.
- cyclostigma* Lesquereux. Pennsylvanian (Cherokee). 15501. Henry County, Missouri. Lesquereux, 1880, p. 394, pl. 62: fig. 5.

- gaspeanum* Dawson. Devonian. 41096. Summit, New York. Dawson, 1862, p. 312, pl. 14: fig. 27.
- henbesti* White. Mississippian (Wedington). 39514, 39517–22. Winslow quadrangle, Arkansas. White, 1936b, p. 26, pl. 6: figs. 1, 4–9.
- lanceolatum* Lesquereux. Pennsylvanian (Cherokee). 8794. Henry County, Missouri. White, 1899a, p. 192, pl. 53: fig. 2.
- lanceolatum* Lesquereux. Pennsylvanian (Vandever). 41980, 41992. Durham, Georgia. Allen and Lester, 1954, pl. 38: figs. 1, 4.
- marginatum* (Presl) Lesquereux. Pennsylvanian (Cherokee). 15460. Henry County, Missouri. Lesquereux, 1884, p. 784, pl. 107: fig. 3.
- novalbaniense* Read and Campbell. Devonian. 41285. Junction City, Kentucky. Read and Campbell, 1939, p. 443, pl. 5: figs. 2, 4.
- obovatum* Sternberg. Pennsylvanian (Pottsville). 2248. Searles, Alabama. Butts, 1926, p. 214, pl. 68: figs. 1–3.
- obovatum* Sternberg. Pennsylvanian (Pottsville). 40878, 40881, 40884, 40889, 40902. Clay City quadrangle, Indiana. Jackson, 1917, p. 412, pl. 6: fig. 17; pl. 7: fig. 7; pl. 8: figs. 1, 6; pl. 9: fig. 15.
- occidentale* White Mississippian (Wedington). 39523–24. Winslow quadrangle, Arkansas. White, 1936b, p. 27, pl. 5: figs. 5, 8.
- pedroanum* (Carruthers) Zeiller. Early Permian. 40601–05. Santa Catharina and Parana, Brazil. Read, 1941, p. 83, pl. 6: fig. 9; pl. 7: figs. 1–3; pl. 8: figs. 1–3, 6.
- peruvianum* Gothan. Mississippian. 41002. Paracas Peninsula, Peru. Read, 1938a, p. 402: fig. 4.
- purduei* White. Mississippian (Wedington). 39525. Winslow quadrangle, Arkansas. White, 1936b, p. 28, pl. 5: fig. 9.
- rigidum* Lesquereux. Pennsylvanian (Pottsville). 15515–17. Dade County, Georgia. Lesquereux, 1884, p. 839.
- rimosum retocorticatum* White. Pennsylvanian (Cherokee). 6043, 15280. Henry County, Missouri. White, 1899a, p. 196, pl. 54: figs. 3, 4.
- scobiniforme* Meek. Mississippian (Pocono). 41063. Brushy Mountain, Virginia. Butts, 1941, pl. 134: fig. 4.
- scobiniiformis* Meek. Mississippian (Pocono). 41062. Lewis tunnel, Virginia. Meek, 1875, p. 38, pl. 1: fig. 1.
- scutatatum* Lesquereux. Pennsylvanian (Cherokee). 15448. Henry County, Missouri. Lesquereux, 1880, p. 369, pl. 63: fig. 6.
- scutatatum* Lesquereux. Pennsylvanian (Cherokee). 6044–46, 6074. Henry County, Missouri. White, 1899a, p. 198, pl. 45: fig. 4; pl. 55: figs. 1, 2; pl. 72: fig. 4.
- sternbergi* Brongniart. Pennsylvania. 16003. Braceville, Illinois. Lesquereux, 1884, p. 783, pl. 107: fig. 2.
- subclypeatum* White. Mississippian (Jackfork). 39445–47. Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 55, pl. 12: figs. 16, 17; pl. 13: fig. 5. cf. *L. veltheimianum* Sternberg. Mississippian (Wedington). 39526. Winslow quadrangle, Arkansas. White, 1936b, p. 29, pl. 5: fig. 4.
- wedingtonense* White. Mississippian (Wedington). 39527–35. Winslow quadrangle, Arkansas. White, 1936b, p. 29, pl. 7: figs. 1–4, 6, 7, 9, 10; pl. 9: fig. 6.
- yohoense* Jackson. Pennsylvanian (Pottsville). 40866. Bloomington quadrangle Indiana. Jackson, 1917, p. 411, pl. 5: fig. 6.
- species. Mississippian (Wedington). 39536–37. Winslow quadrangle, Arkansas. White, 1936b, p. 31, pl. 7: fig. 8; pl. 8: fig. 23.

Lepidodendropsis

- scobiniiformis* (Meek) Read Mississippian (Pocono). 40659, 40671–74, 40692. Montgomery County, Virginia, and Pottsville, Pennsylvania. Read, 1955, p. 26, pl. 19: figs. 3–5; pl. 20: figs. 1–3.—Read and Mamay, 1964, pl. 2: fig. 2.
- sigillariodes* Jongmans, Gothan and Darrah. Mississippian (Pocono). 40669–70. Pine Grove, Pennsylvania. Read, 1955, p. 27, pl. 19: figs. 1, 2.
- vandergrachtii* Jongmans, Gothan, and Darrah. Mississippian (Pocono). 40642–43, 40702. Pottsville and Pine Grove, Pennsylvania. Read, 1955, p. 26, pl. 18: fig. 4; pl. 20: figs. 4, 5.

Lepidophloios

- dilatatus* Lesquereux. Pennsylvanian. 15941–47. Cannelton, Pennsylvania, and Henry County, Missouri. Lesquereux, 1884, p. 781, pl. 105: figs. 1, 2, 4.
- ichthyoderma* Lesquereux. Pennsylvanian (Allegheny) 15974. Morris, Illinois. Lesquereux, 1880, p. 426, pl. 68: fig. 10.

- sigillarioides* Lesquereux. Pennsylvanian (Cherokee). 6173. Henry County, Missouri. Lesquereux, 1880, p. 425, pl. 68: fig. 8
- van ingeni* White. Pennsylvanian (Cherokee). 6047–53, 6061, 6075, 6092, 15944, 15947. Henry County, Missouri. White, 1899a, p. 205, pl. 56: figs. 1–8; pl. 61: fig. 1c; pl. 62; pl. 63: figs. 1, 5.
- species. Pennsylvanian (Allegheny). 15945, 15956. Cannelton, Pennsylvania. Lesquereux, 1880, p. 427, pl. 68: figs. 6, 7.
- Lepidophyllum***
- acuminatum* Lesquereux. Pennsylvanian. 15885. Danville, Illinois. Lesquereux, 1880, p. 450, pl. 69: fig. 37.
- affine* Lesquereux (counterpart). Pennsylvanian (“Anthracite” Series). 16240. Yatesville, Pennsylvania. Lesquereux, 1880, p. 447, pl. 69: fig. 31.
- brevifolium* Lesquereux. Pennsylvanian (McAlester). 6492, 6498, 6501–02, 6741. McAlester, Oklahoma. White, 1899b, p. 529, pl. 68: figs. 15–18.
- campbellianum* Lesquereux. Pennsylvanian (Pottsville). 16376–80. Pittston Pennsylvania. Lesquereux, 1884, p. 786, pl. 107: figs. 6, 7.
- coriaceum* Lesquereux. Pennsylvanian (Allegheny). 15908. Cannelton, Pennsylvania. Lesquereux, 1884, p. 787, pl. 107: fig. 10.
- cultriforme* Lesquereux. Pennsylvanian (Allegheny). 16087–88. Cannelton, Pennsylvania. Lesquereux, 1884, p. 785, pl. 107: fig. 13; pl. 108: fig. 2.
- elegans* Lesquereux. Pennsylvanian (Allegheny). 16230–31. Mazon Creek, Illinois. Lesquereux, 1884, p. 787, pl. 107: fig. 11.
- jallax* Lesquereux. Pennsylvanian. 15896–98. Cannelton, Pennsylvania; Rhode Island. Lesquereux, 1884, p. 786, pl. 107: figs. 4, 5.
- gracile* Lesquereux. Pennsylvanian (Pottsville). 16245. Pittston, Pennsylvania. Lesquereux, 1884, p. 786, pl. 107: fig. 8.
- jenneyi* White. Pennsylvanian (Cherokee). 6078, 6083–84, 6176. Henry County, Missouri. White, 1899a, p. 214, pl. 59: figs. 1a, 1b; pl. 63: fig. 6.
- linearifolium* Lesquereux. Pennsylvanian (Allegheny). 16066–68. Cannelton, Pennsylvania. Lesquereux, 1880, p. 452, pl. 69: fig. 39.
- mansfieldi* Lesquereux. Pennsylvanian (Allegheny). 15918. Cannelton, Pennsylvania. Lesquereux, 1880, p. 449, pl. 69: fig. 34.
- minutum* Lesquereux. Pennsylvanian (“Anthracite” Series). 16243. Archbald, Pennsylvania. Lesquereux, 1884, p. 787, pl. 107: fig. 9.
- missouriense* White. Pennsylvanian (Cherokee). 6059, 6062, 6091, 6107, 6235. Henry County, Missouri. White, 1899a, p. 216, pl. 58: fig. 2; pl. 60: fig. 2, 3; pl. 61: fig. 1a; pl. 62: fig. a.
- morrisianum* Lesquereux. Pennsylvanian (Allegheny). 15916–17. Mazon Creek, Illinois. Lesquereux, 1880, p. 448, pl. 69, figs. 40–41.
- sagittatum* White. Mississippian (Wedington). 39543–44. Winslow quadrangle, Arkansas. White, 1936b, p. 33, pl. 6: fig. 3; pl. 9: fig. 2.
- stantoni* Lesquereux. Pennsylvanian (“Anthracite” Series). 16221–23. Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 841.
- truncatum* Lesquereux. Pennsylvanian (Allegheny). 15985, 26051, 41875. Cannelton, Pennsylvania, and Mazon Creek, Illinois. Lesquereux, 1880, p. 458, pl. 69: figs. 9, 10.
- tumidum* Lesquereux. Pennsylvanian (“Anthracite” Series). 16218. Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 788, pl. 107: fig. 12.
- Lepidostrobos***
- butleri* Lesquereux. Pennsylvanian (Pottsville). 16175. Pittston, Pennsylvania. Lesquereux, 1884, p. 840.
- globosus* Dawson. Devonian. 36484. Perry, Maine. Smith and White, 1905, p. 73, pl. 6: fig. 5.
- hastatus* Lesquereux. Pennsylvanian (Pottsville). 16178. Pittston, Pennsylvania. Lesquereux, 1880, p. 438, pl. 69: fig. 27.
- latus* Lesquereux. Pennsylvanian (“Anthracite” Series). 16145–46. Olyphant, Pennsylvania. Lesquereux, 1884, p. 841.
- missouriensis* White. Pennsylvanian (Cherokee). 8796. Henry County, Missouri. White, 1899a, p. 217, pl. 60: fig. 1.
- occidentalis* White. Mississippian (Wedington). 39545–47. Winslow quadrangle, Arkansas. White, 1936b, p. 33, pl. 5: figs. 1, 3; pl. 8: fig. 20.
- peniculus* White. Mississippian (Jackfork). 39448–49. Pike County, Arkansas. White, 1936c, p. 57, pl. 13: figs. 1–3.
- praelongus* Lesquereux. Pennsylvanian. 41140. Pittston, Pennsylvania. Lesquereux, 1880, p. 433.
- princeps* Lesquereux. Pennsylvanian (Cherokee). 6066, 6071, 6088, 6098. Henry County, Missouri.

- White, 1899a, p. 212, pl. 62: fig. *h*; pl. 63: figs. 1, 2; pl. 64: fig. *a*.
- salisburyi* Lesquereux. Pennsylvanian. 16130, 42298. Coal Creek, West Virginia, and Mercer County, Illinois. Lesquereux, 1880, p. 443, pl. 69: figs. 1, 2.
- spectabilis* Lesquereux. Pennsylvanian (Allegheny). 16059–60. Cannelton, Pennsylvania. Lesquereux, 1880, p. 435.
- truncatus* Lesquereux. Pennsylvanian (Allegheny). 16131–32. Cannelton, Pennsylvania. Lesquereux, 1884, p. 784, pl. 108: fig. 1.
- variabilis* Lindley and Hutton. Pennsylvanian. 16002–03. Pittston, Pennsylvania, and Braceville, Illinois. Lesquereux, 1880, p. 434, pl. 69: fig. 26; 1884, p. 783, pl. 107: fig. 2.
- weberensis* Read. Pennsylvanian (Weber). 39155. Evans Peak, Colorado. Read, 1934, p. 82, pl. 16: figs. 2, 4.

Triletes of *Lepidostrobus*

- missouriensis*. Pennsylvanian (Cherokee). 6090. Henry County, Missouri. White, 1899a, p. 217, pl. 62: figs. *d–e*; pl. 63: fig. 3.
- species. Early Permian. 40606. Santa Catharina, Brazil. Read, 1941, p. 85, pl. 8: figs. 4, 5.

Lepidoxylon

- anomalum* Lesquereux. Pennsylvanian (Cherokee). 6082, 19156. Henry County, Missouri. Lesquereux, 1880, p. 557, pl. 83: fig. 5; pl. 84: fig. 1.

Leptophloem

- rhombicum* Dawson. Devonian. 36481–83. Perry, Maine. Smith and White, 1905, p. 69, pl. 6: figs. 2–4.
- rhombicum* Dawson. Devonian. 41097–98. Perry, Maine. Dawson, 1862, p. 316, pl. 12: fig. 8; pl. 17: fig. 53.

Lescuropteris

- moorii* (Lesquereux) Schimper. Pennsylvanian (Elmdale). 41762–63. Onaga, Kansas. Read and Mamay, 1964, pl. 11: figs. 1, 2.
- species. Pennsylvanian (Lawrence). 41822. Onaga, Kansas. Cridland et al., 1963, pl. 23: fig. 57.

Lesleya

- microphylla* Lesquereux. Pennsylvanian (Severy). 11744. Osage City, Kansas. Lesquereux, 1884, p. 831.—Cridland et al., 1963, pl. 23: fig. 55.

Linopteris

- gilkersonensis* White. Pennsylvanian (Cherokee). 5485, 6100. Henry County, Missouri. White, 1899a, p. 139, pl. 41: fig. 7, 8; pl. 64: fig. *c*.

Litostrobus

- iowensis* Mamay. Pennsylvanian (Des Moines). 41292. Urbandale, Iowa. Mamay, 1954b, pl. 14: figs. 2–14.

Litostroma

- oklahomense* Mamay. Pennsylvanian (Boggy). 40932, 40936–39. 4 miles southwest of McAlester, Oklahoma. Mamay, 1959a, pp. 283–292, figs. 3, 4, 26–28.

Lobatannularia

- species. Permian (Belle Plains). 41774. Emily Irish grant, Baylor County, Texas. Read and Mamay, 1964, pl. 18: fig. 4.

Lycopodiopsis

- derbyi* Renault. Early Permian. 31922. São Paulo, Brazil. White, 1908, p. 437, pl. 5: fig. 11.

Lycopodites

- arborescens* Lesquereux. Pennsylvanian (Pottsville). 15559. Washington County, Arkansas. Lesquereux, 1884, p. 778, pl. 106: fig. 1.
- lacoiei* Lesquereux. Pennsylvanian (“Anthracite” Series). 10219, 16401. Olyphant, Pennsylvania. Lesquereux, 1884, p. 780, pl. 107: fig. 1.
- simplex* Lesquereux. Pennsylvanian (Pottsville). 15552. Pittston, Pennsylvania. Lesquereux, 1884, p. 779, pl. 106: fig. 2.
- stocki* Kidston (counterpart). Calciferous sandstone. 15534. Eskdale, Scotland. Kidston, 1884, p. 115, pl. 5: fig. 1.

vanuxemi Dawson. Devonian. 41130. Ithaca, New York. Hall, 1863, p. 115, fig. 7.

Lycopogenia

callicyrta Read. Devonian. 41285. Junction City, Kentucky. Read, 1936, p. 227, figs. 1, 2.

Macrostachya

aperta Lesquereux. Pennsylvanian (Allegheny). 18312. Cannelton, Pennsylvania. Lesquereux, 1884, p. 829, pl. 3: fig. 20.

communis Lesquereux. Pennsylvanian (Allegheny). 17740-42, 17751. Cannelton, Pennsylvania. Lesquereux, 1884, p. 828, pl. 3: figs. 17, 18.

infudibuliformis Schimper. Pennsylvanian (Allegheny). 17729, 17730. Cannelton, Pennsylvania. Lesquereux, 1880, p. 60, pl. 3: fig. 14.

lanceolata Lesquereux. Pennsylvanian (Pottsville). 18314. Pittston, Pennsylvania. Lesquereux, 1884, p. 721.

minor Lesquereux. Pennsylvanian (Pottsville). 18301. Pittston, Pennsylvania. Lesquereux, 1884, p. 829, pl. 3: fig. 19.

Mariopteris

capitata White. Pennsylvanian (McAlester). 6514. McAlester, Oklahoma. White, 1899b, pp. 482-485.

cheilanthoides White. Pennsylvanian (Pottsville). 2661. Gadsden, Alabama. White, 1943, p. 89, pl. 19: figs. 5, 6.

cordata-ovata (Lesquereux) White. Late Pennsylvanian. 41765. Hazleton, Pennsylvania. Read and Mamay, 1964, pl. 12: fig. 4.

decipiens (Lesquereux) White. Early Pennsylvanian. 40860, 40864. Bloomington quadrangle, Indiana. Jackson, 1917, p. 415, pl. 4: fig. 7; pl. 5: fig. 4.

decipiens (Lesquereux) White. Pennsylvanian. 41019-21, 41023-24, 41027-28. Belleville, Missouri. White, 1893a, pp. 47-52, pl. 1: figs. 5-8; pl. 2: figs. 1-3.

eremopteroides White. Pennsylvanian (Pottsville). 40081a-i. Brookside, Pennsylvania. White, 1943, p. 87, pl. 16: figs. 1, 2; pl. 17: figs. 1-9.

eremopteroides White. Pennsylvanian (Pottsville). 40958. Brookside colliery, Pennsylvania. White,

1900, p. 872, pl. 189: fig. 2.—Read and Mamay, 1964, pl. 4: fig. 1.

eremopteroides White. Pennsylvanian (Pottsville). 40959. Brookside, Pennsylvania. White, 1900, p. 872, pl. 189: fig. 1.

inflata White. Pennsylvanian (Pottsville). 40079a-c. Thurmond, West Virginia. White, 1943, p. 88, pl. 18: fig. 4; pl. 19: figs. 1-4.

inflata sewaneensis White. Pennsylvanian (Pottsville). 13661, 40078. Tracy and Rockwood, Tennessee. White, 1943, p. 88, pl. 18: figs. 1-3.

lobata White. Pennsylvanian (Pottsville). 13746, 13748. Warrior Creek, Alabama. White, 1943, p. 87, pl. 15: figs. 1, 2.

muricata Schlotheim. Pennsylvanian (Pottsville). 40843. Bloomington quadrangle, Indiana. Jackson, 1917, p. 415, pl. 2: fig. 2.

occidentalis White. Pennsylvanian (McAlester). 6743, 6745-46, 6749, 6751. McAlester, Oklahoma. White, 1899b, p. 482, pl. 67: figs. 1-4, 6.

occidentalis White. Pennsylvanian (Boggy). 41220. McAlester quadrangle, Oklahoma. Read and Mamay, 1964, pl. 8: fig. 2.

occidentalis villosa White. Pennsylvanian (McAlester). 6748, 6750. Krebs, Oklahoma. White, 1899b, p. 482, pl. 67: figs. 8, 9.

paddocki White. Pennsylvanian (Pottsville). 40080 a-d, 42077. Pocahontas, West Virginia. White, 1943, p. 86, pl. 14: figs. 1-6.

paddocki colliciaris White. Pennsylvanian (Pottsville). 40076a-e. Nuttall, West Virginia. White, 1943, p. 87, pl. 12: figs. 1, 2; pl. 13: figs. 1-9.

phillipsi White. Pennsylvanian (Pottsville). 40084a-d. Pottsville Gap, Pennsylvania. White, 1943, p. 89, pl. 20: figs. 1-3; pl. 22: fig. 1.

pottsvillea White. Pennsylvanian (Pottsville). 40247. Squire Jim, West Virginia. Butts, 1941, pl. 135: fig. 1.

pottsvillea White. Pennsylvanian (Pottsville). 40955-57, 40963. Lincoln mine, Pennsylvania. White, 1900, p. 874, pl. 190: figs. 3-6.

pottsvillea White. Pennsylvanian (Pottsville). 2206, 13656-58, 13711-12, 13717, 13752. Warrior Creek, Alabama, and Cole City, Georgia. White, 1943, p. 86, pl. 8: fig. 1; pl. 9: figs. 1-5; pl. 10: figs. 1-5.

pottsvillea White. Pennsylvanian (Lookout). 13658. Cole City, Georgia. Read and Mamay, 1964, pl. 5: fig. 1.

- pottsvillea dilatata* White. Pennsylvanian (Pottsville). 2668a–b, 2669. Gadsden, Alabama. White, 1943, p. 86, pl. 11: figs. 2–6.
- pottsvillea ovalis* White. Pennsylvanian (Pottsville). 40074–75. Squire Jim, Virginia. White, 1943, p. 86, pl. 11: figs. 1, 7, 8; pl. 12: fig. 3.
- pygmaea* White. Pennsylvanian (Pottsville). 40082a–b, 40086. Pottsville Gap and Tremont, Pennsylvania. White, 1943, p. 89, pl. 21: figs. 1, 2; pl. 22: fig. 3.—Read and Mamay, 1964, pl. 6: fig. 3; pl. 7: fig. 1.
- pygmaea* White. Pennsylvanian (Pottsville). 40967, 40977–78, 40980. New Lincoln colliery, Pennsylvania. White, 1900, p. 876, pl. 192: figs. 2, 4–6.
- pygmaea* White. Pennsylvanian (Massillon coal). 41760. Massillon, Ohio. Read and Mamay, 1964, pl. 5: figs. 2, 3.
- sphenopteroides* (Lesquereux) Zeiller. Pennsylvanian (Cherokee). 5707–10. Henry County, Missouri. White, 1899a, p. 31, pl. 9: figs. 1, 2; pl. 10: figs. 1, 2.
- tennesseana* White. Pennsylvanian (Pottsville). 13597, 40083, 40085a–b. Cotton Hill and Crow, West Virginia; Warrior, Alabama. White, 1943, p. 89, pl. 20: fig. 4; pl. 21: figs. 3, 4; pl. 22: fig. 2.
- species. Pennsylvanian (Cherokee). 5666, 14438. Henry County, Missouri. White, 1899a, p. 34, pl. 7: fig. 6; pl. 9: fig. 3.

Medullosa

- grandis* Andrews and Mamay. Pennsylvanian (Des Moines). 40630. 4 miles south of West Mineral, Kansas. Andrews and Mamay, 1953, pp. 191–196, pls. 22, 23.

Megalopteris

- dentata* Lesquereux. Pennsylvanian. 11448–50. Rushville, Ohio. Lesquereux, 1884, p. 833.
- fasciculata* Lesquereux. Pennsylvanian (Pottsville). 11704. Port Byron, Illinois. Lesquereux, 1880, p. 150, pl. 24: fig. 2.
- marginata* Lesquereux. Pennsylvanian (Pottsville). 11700. Port Byron, Illinois. Lesquereux, 1880, p. 152, pl. 24: fig. 4.
- serrata* Lesquereux. Pennsylvanian (Pottsville). 11463. Rushville, Ohio. Lesquereux, 1884, p. 834.
- southwelli* Lesquereux. Pennsylvanian (Pottsville). 41171. Port Byron, Illinois. Lesquereux, 1880, p. 148, pl. 24: fig. 1.—Read and Mamay, 1964, pl. 7: fig. 3.

Megaphyton

- elongatum* Kidston. Late “Coal Measures.” 17038. Radstock, Somerset, England. Kidston, 1887, p. 390.
- goldenbergi* Weiss. Pennsylvanian (Cherokee). 17039. Henry County, Missouri. Lesquereux, 1880, p. 349, pl. 61: fig. 4.
- grand'euryi* Lesquereux. Pennsylvanian (“Anthracite” Series). 17044. Olyphant, Pennsylvania. Lesquereux, 1880, p. 350.

Mesocalamites

- crookensis* Mamay and Read. Pennsylvanian (Spotted Ridge). 40708–09. Crook County, Oregon. Mamay and Read, 1956, p. 215, pl. 35: figs. 4, 5.
- hesperius* (Arnold) Mamay and Read. Pennsylvanian (Spotted Ridge). 40707. Crook County, Oregon. Mamay and Read, 1956, p. 215, pl. 34: fig. 3.
- species. Pennsylvanian (Spotted Ridge). 40705–06. Crook County, Oregon. Mamay and Read, 1956, p. 216, pl. 34: figs. 1, 2.

Microzygia

- lacunosa* Read. Devonian. 41240. Junction City, Kentucky. Read, 1936, p. 223: fig. 9.

Moellerina

- greenei* Ulrich. Devonian. 42079. Falls of the Ohio, Louisville, Kentucky. Ulrich, 1886, p. 34, pl. 3: figs. 8, 8a–e.

Monoletes

- ovatus* Schopf. Pennsylvanian (McLeansboro). 41177–78. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 1, 2.

Monoscalitheca

- fasciculata* Abbott. Pennsylvanian (Allegheny). 40300–01. Kimberly, Ohio. Abbott, 1961, pp. 981–982, pl. 115: figs. 1, 2.

Neuropteridium?

- species. Permian (Hermit). 38045. Grand Canyon, Arizona. White, 1929, p. 91, pl. 16: fig. 1.

Neuropterus

- agassizi* Lesquereux (counterpart). Pennsylvanian. 10050. Rhode Island. Lesquereux, 1880, p. 117, pl. 17: fig. 1.
- aspera* Lesquereux. Pennsylvanian. 10565, 10704, 10706–07. Cannelton and Pittston, Pennsylvania. Lesquereux, 1884, p. 736, pl. 96: figs. 4–7.
- auriculata* Brongniart. Pennsylvanian (Allegheny). 11352. Cannelton, Pennsylvania. Lesquereux, 1880, p. 85, pl. 6: fig. 11.
- biformis* Lesquereux. Pennsylvanian (Vandever). 41988. Durham, Georgia. Allen and Lester, 1954, pl. 35: fig. 4.
- blissi* Lesquereux. Pennsylvanian (Allegheny). 10065. Mazon Creek, Illinois. Lesquereux, 1884, p. 737, pl. 95: fig. 1.
- capitata* Lesquereux. Pennsylvanian (Allegheny). 11355. Cannelton, Pennsylvania. Lesquereux, 1880, p. 103, pl. 23: fig. 2.
- capitata* Lesquereux. Pennsylvanian (Allegheny). 11344. Cannelton, Pennsylvania. Lesquereux, 1880, p. 103, pl. 23: fig. 3.
- carceraria* White. Pennsylvanian (Cherokee). 10785. Lansing, Kansas. White, 1903, p. 99.—Cridland et al., 1963, pl. 20: fig. 33.
- carceraria* White. Pennsylvanian (Allegheny). 10791, 14831. Mazon Creek, Illinois, and Cannelton, Pennsylvania. White, 1903, p. 99.
- carri* Lesquereux. Pennsylvanian. 11385–87. Kingston, Pennsylvania. Lesquereux, 1884, p. 731, pl. 94: figs. 5–7.
- caudata* White. Pennsylvanian. 41030–38. Belleville, Missouri. White, 1893a, pp. 87–91, pl. 4: figs. 1–9.
- crenulata* Brongniart. Pennsylvanian. 10037. Tremont, Pennsylvania. Lesquereux, 1880, p. 116, pl. 16: fig. 11.
- decipiens* Lesquereux. Pennsylvanian (Allegheny). 10621–24. Mazon Creek, Illinois. Lesquereux, 1884, p. 733, pl. 94: figs. 1, 2.
- dilatata* (Lindley and Hutton) Lesquereux. Pennsylvanian (Cherokee). 5658, 5672, 6038. Henry County, Missouri. White, 1899a, p. 137, pl. 41: fig. 1; pl. 42: fig. 1; pl. 43: fig. 1; pl. 44: fig. 2.
- dluhoschi* Stur. Pennsylvanian (Weber). 39161. Evans Peak, Colorado. Read, 1934, p. 83, pl. 17: fig. 5.
- elrodi* Lesquereux. Pennsylvanian. 11839. Alabama. Lesquereux, 1880, p. 107, pl. 13: fig. 4.
- elrodi* Lesquereux. Pennsylvanian (Pottsville). 11840–41. Tracy, Tennessee, and Dade County, Georgia. Lesquereux, 1884, p. 735, pl. 96: figs. 1, 2.
- elrodi* Lesquereux. Mississippian (Stanley). 39406–07. De Queen quadrangle, Arkansas. White, 1936c, p. 61, pl. 10: figs. 18, 19; pl. 11: fig. 8.
- elrodi* Lesquereux. Pennsylvanian (Pottsville). 41232, 41872–73. Gadsden, Alabama. Lesquereux, 1888, p. 86, pl. 29: figs. 1–3.
- elrodi* Lesquereux. Pennsylvanian (Pottsville). 40862. Bloomington quadrangle, Indiana. Jackson, 1917, p. 417, pl. 5: fig. 2.
- flexuosa* Sternberg. Pennsylvanian. 41050–52. Belleville, Missouri. White, 1893a, pp. 91–93, pl. 5: figs. 1–4.
- flexuosa* Sternberg. Pennsylvanian (Allegheny). 40311. Mazon Creek, Illinois. Read and Mamay, 1964, pl. 9: fig. 3.
- griffithi* Lesquereux. Pennsylvanian (“Anthracite” Series). 10807–12. Port Griffith, Pennsylvania. Lesquereux, 1884, p. 737, pl. 95: figs. 3–8.
- griffithi occidentalis* White. Pennsylvanian (McAlester). 6508–09. McAlester, Oklahoma. White, 1899b, p. 505.
- harrisi* White. Pennsylvanian. 12667–69. Russellville, Arkansas. White, 1899b, pp. 506–507, pl. 68: figs. 6–9.
- hastata* White. Pennsylvanian (Cherokee). 12072–74, 12076. Lansing and Lawrence, Kansas. White, 1903, p. 97.
- hastata* White. Pennsylvanian (Lawrence). 12071. Lansing, Kansas. Cridland et al., 1963, pl. 19: figs. 25, 26.
- heterophylla* Brongniart. Pennsylvanian (Weber). 39160. Evans Peak, Colorado. Read, 1934, p. 84, pl. 16: fig. 7.
- jenneyi* White. Pennsylvanian. 41022, 41025–26, 41029, 41039–49, 41061. Belleville, Missouri. White, 1893a, pp. 82–84, pl. 1: figs. 7a–b; pl. 2: figs. 7–12; pl. 3: figs. 1–3, 5–10.
- lindahli* White. Pennsylvanian. 8636, 11621–24. Kansas City, Kansas. White, 1903, p. 96.
- lindahli* White. Pennsylvanian (Dennis). 8636. Kansas City, Kansas. Cridland et al., 1963, pl. 19: fig. 24.
- lindahli* White. Pennsylvanian (Swope). 11622. Kansas City, Missouri. Read and Mamay, 1964, pl. 12: fig. 5.
- lunata* White. Pennsylvanian (Pottsville). 40961, 40964, 40971, 40975, 40986. Lincoln colliery near

- Tremont, Pennsylvania. White, 1900, p. 895, pl. 193: figs. 3–7.
- missouriensis* Lesquereux. Pennsylvanian (Cherokee). 30861. Henry County, Missouri. Lesquereux, 1880, p. 104, pl. 7: fig. 6.
- missouriensis* Lesquereux. Pennsylvanian (Cherokee). 5472, 5630–32. Henry County, Missouri. White, 1899a, p. 130, pl. 41: figs. 4, 5; pl. 42: fig. 4; pl. 45: fig. 3.
- oblongifolia* Lesquereux. Pennsylvanian (Allegheny). 10070–71. Cannelton, Pennsylvania. Lesquereux, 1884, p. 732, pl. 94: fig. 3; pl. 95: fig. 2.
- ovata* Hofmann. Pennsylvanian (Cabaniss). 10744. Lansing, Kansas. Cridland et al., 1963, pl. 22: fig. 53.
- ovata* Hofmann. Pennsylvanian (Cherokee). 8901. Henry County, Missouri. Read and Mamay, 1964, pl. 9: fig. 2.
- pocahontas* White. Pennsylvanian (Pottsville). 40246. Sewell, West Virginia. Butts, 1941, pl. 135: figs. 6, 8.
- pocahontas* White. Pennsylvanian (Pottsville). 40745, 40751. West Virginia. White, 1900, p. 888, pl. 189: fig. 4; pl. 191: fig. 5.
- pocahontas* White. Pennsylvanian (Vandever). 41983. Durham, Georgia. Allen and Lester, 1954, pl. 34: figs. 5, 6.
- pocahontas* White. Pennsylvanian (Pocahontas coal group). 41213. Angle mine, West Virginia. Read and Mamay, 1964, pl. 4: fig. 2.
- pocahontas inaequalis* White. Pennsylvanian (Pottsville). 40744, 40747–50, 40968, 40985. Pottsville Gap, Rausch Gap, Kalmia colliery, and Tremont, Pennsylvania. White, 1900, p. 890, pl. 188: fig. 5; pl. 190: figs. 7(?), 8; pl. 191: figs. 1–4.
- pocahontas pentias* White. Pennsylvanian (Pottsville). 40741–43, 40746. Brookside, Tremont, and Kalmia colliery, Pennsylvania. White, 1900, p. 892, pl. 188: figs. 2–4; pl. 189: fig. 5.
- rarinervis* Bunbury. Pennsylvanian. 41054. Belleville, Missouri. White, 1893a, pp. 85–87, pl. 5: fig. 7.
- rarinervis* Bunbury. Pennsylvanian (Cherokee). 10873. Lansing, Kansas. Read and Mamay, 1964, pl. 8: fig. 3.
- rogersi* Lesquereux. Pennsylvanian (Tecumseh). 7737, 8142. 20 miles southeast of Lawrence, Kansas; Twin Mounds, Kansas. Cridland et al., 1963, pl. 23: figs. 58, 59.
- scheuchzeri* Hofmann. Pennsylvanian (Cherokee). 5633, 6101. Henry County, Missouri. White, 1899a, p. 132, pl. 42: fig. 3; pl. 64: fig. d.
- scheuchzeri* Hofmann. Pennsylvanian (Cabaniss). 11667, 11669. Lansing, Kansas. Cridland et al. 1963, pl. 23: figs. 54, 56.
- smithi* Lesquereux. Pennsylvanian (Pottsville). 11156. Dade County, Georgia. Lesquereux, 1884, p. 734, pl. 96: fig. 3.
- smithi* Lesquereux. Pennsylvanian (Pottsville). 41233. Gadsden, Alabama. Lesquereux, 1888, p. 86, pl. 29: fig. 4.
- tennesseeana* Lesquereux. Pennsylvanian. 11790. Tracy, Tennessee. Read and Mamay, 1964, pl. 6: fig. 2.
- tenuifolia* (Schlothheim) Sternberg. Pennsylvanian (Pottsville). 41219. Sandy Ridge, Center County, Pennsylvania. Read and Mamay, 1964, pl. 7: fig. 4.
- trichomanoides* (Brongniart) Lesquereux. Pennsylvanian (Allegheny). 10073. Cannelton, Pennsylvania. Lesquereux, 1880, p. 79, pl. 4: fig. 4.
- cf. *trichomanoides* (Brongniart) Lesquereux. Pennsylvanian. 41053. Belleville, Missouri. White, 1893a, p. 95, pl. 4: fig. 10.
- species. Mississippian (Wedington). 39484–85. Winslow quadrangle, Arkansas. White, 1936b, p. 20, pl. 4: figs. 26–28.
- species. Pennsylvanian (Pottsville). 40850, 40854, 40861, 40863, 40894, 40903. Bloomington quadrangle and Clay City quadrangle, Indiana. Jackson, 1917, p. 418, pl. 3: fig. 4; pl. 4: fig. 1; pl. 5: figs. 1, 3; pl. 9: fig. 4; pl. 10: fig. 1.
- species. Pennsylvanian. 41055. Belleville, Missouri. White, 1893a, p. 98, pl. 5: fig. 6.
- Noeggerathia*
- spatulata* Dana. Permian. 41295. New South Wales, Australia. Dana, 1849, p. 715, pl. 12: fig. 9.
- Noeggerathiopsis*
- hislopi* (Bunbury) Feistmantel. Early Permian. 31994–96, 32009. Santa Catharina, Brazil. White, 1908, p. 549, pl. 9: figs. 4–7.
- Odontopteris*
- abbreviata* Lesquereux. Pennsylvanian. 14827. Old Forge, Pennsylvania. Lesquereux, 1880, p. 138, pl. 21: fig. 7.

aequalis Lesquereux. Pennsylvanian (Allegheny). 10323–24. Mazon Creek, Illinois. Lesquereux, 1880, p. 135, pl. 21: fig. 8; 1884, p. 743, pl. 97: fig. 6.

affinis Lesquereux. Pennsylvanian (Allegheny). 10290–91. Mazon Creek, Illinois. Lesquereux, 1884, p. 742, pl. 97: fig. 4.

bradleyi Lesquereux. Pennsylvanian (Cherokee). 5623. Henry County, Missouri. White, 1899a, p. 125, pl. 42: fig. 2.

cornuta Lesquereux. Pennsylvanian (Allegheny). 10345–46, 10348. Cannelton, Pennsylvania. Lesquereux, 1880, p. 128, pl. 22: figs. 7–9.

deformata Lesquereux. Pennsylvanian. 11287. Rhode Island. Lesquereux, 1884, p. 743, pl. 97: fig. 5.

cf. *O. fischeri*, Brongniart. Permian (Belle Plains). 41770, 41846. Castle Hollow near Fulda, Texas. Read and Mamay, 1964, pl. 17: figs. 3, 4.

monstruosa Lesquereux. Pennsylvanian (Allegheny). 10358, 14831. Cannelton, Pennsylvania. Lesquereux, 1884, p. 741, pl. 97: figs. 2–3.

neuropteroides Roemer. Pennsylvanian. 11279. Rhode Island. Lesquereux, 1884, p. 740, pl. 97: fig. 8.

newberryi Lesquereux. Pennsylvanian (Pottsville). 40841–42. Bloomington quadrangle, Indiana. Jackson, 1917, p. 419, pl. 1: fig. 8; pl. 2: fig. 1a.

osmundaeformis (Schlotheim) Zeiller. Pennsylvanian (Scranton). 10313. Osage City, Kansas. Cridland et al., 1963, pl. 22: fig. 52.

pachyderma Fontaine and White. Pennsylvanian, 42304. Cassville, West Virginia. Read and Mamay, 1964, pl. 12: fig. 3.

papilionacea White. Pennsylvanian (Cherokee). 12086. Lansing, Kansas. White, 1903, p. 95.—Cridland et al., 1963, pl. 22: fig. 51.

patens Lesquereux. Pennsylvanian. 11274–76. Rhode Island. Lesquereux, 1884, p. 740, pl. 97: fig. 7.

reichiana Gutbier. Pennsylvanian (Chanute). 11265. Thayer, Kansas. Cridland et al., 1963, pl. 22: fig. 48.

reichiana Gutbier. Late Pennsylvanian. 11267. Hazelton, Pennsylvania. Read and Mamay, 1964, pl. 12: fig. 2.

sphenopteroides Lesquereux. Pennsylvanian (Cherokee). 13531–32. Clinton, Missouri, and Mazon Creek, Illinois. Lesquereux, 1880, p. 139, pl. 21: fig. 3, 4.

subcuneata Lesquereux. Pennsylvanian (Carbondale). 35317. Spring Creek, Vermillion County, Indiana. Lesquereux, 1884, p. 872, pl. 22: fig. 4.

Oligocarpia

missouriensis White. Pennsylvanian (Cherokee). 5694–96, 14467–68. Henry County, Missouri. White, 1899a, p. 66, pl. 20: fig. 1; pl. 21: figs. 1–4.

Omphalophloios

cyclostigma (Lesquereux) White. Pennsylvanian (Cherokee). 6024–26, 6028–30, 8797, 15502. Henry County, Missouri. White, 1898, pl. 20; pl. 21: figs. 1, 3–5; pl. 22: figs. 1, 3; 1899a, p. 218, pl. 65; pl. 66: figs. 1–3, 5; pl. 67: figs. 1, 2; pl. 68: figs. 1, 2.

Otidophyton

hymenophylloides White. Devonian. 36450. Perry, Maine. Smith and White, 1905, p. 47, pl. 2: fig. 3.

Ottokaria

ovalis White. Early Permian. 31980–81. Rio Grande do Sul, Brazil. White, 1908, p. 532, pl. 7: fig. 7.

Ovopteris

communis (Lesquereux) Pontonié. Pennsylvanian (Morrow). 41218. Washington County, Arkansas. Read and Mamay, 1964, pl. 6: fig. 1.

Padgettia

readi Mamay. Permian (Moran). 41165a–b, 42179–180. 2 miles northwest of Padgett, Texas, Mamay, 1960, pp. 53–57: figs. 1–4.

Pagiophyllum

dubium White non Fontaine. Permian (Hermit). 38062. Grand Canyon, Arizona. White, 1929, p. 111, pl. 47: figs. 1, 3, 4?, 5.

Palaeophycus

duplex (Hall) Whitfield. Late Cambrian?. 41129. Pictured Rocks, Lake Superior. Chamberlin, 1883, p. 126.

fluctans Ruedemann. Ordovician. 41174. Below Salmon River falls, New York. Ruedemann, 1925, p. 10, fig. 1.

gracilis Lesquereux. Carboniferous. 25023. Vigo County, Indiana. Lesquereux, 1875, p. 137, pl. 1: fig. 5; 1880, p. 11, pl. B: fig. 10.

milleri Lesquereux. Carboniferous. 25020–22. Vigo County, Indiana. Lesquereux, 1875, p. 136, pl. 1: figs. 1–3; 1880, p. 10, pl. A: fig. 8.

occidentalis Whitfield. Cambrian (Potsdam). 42171. Black Hills, South Dakota. Whitfield, 1880, p. 332, pl. 1: fig. 3.

simplex Hall. Ordovician. 41100–01. Middleville, New York. Hall, 1847, p. 63, pl. 22: fig. 1a–b.

striatus Hall. Late Silurian. 41103–05, 41108, 41111. Clinton, New York. Hall, 1852, p. 22, pl. 10: figs. 1, 2.

tortuosus Hall. Silurian. 41102, 41106–07. Medina, New York. Hall, 1852, p. 6, pl. 3: figs. 2–2b.

species. Ordovician. 41099. Middleville, New York. Hall, 1847, pl. 21: fig. 3.

species. Late Silurian. 41109–10. New Hartford, New York. Hall, 1852, p. 22, pl. 8: fig. 3; pl. 10: fig. 3.

Palaeostachya

andrewsi Baxter. Pennsylvanian (Des Moines). 41293. What Cheer, Iowa. Baxter, 1955, unfigured section of the holotype.

species. Devonian. 36466. Perry, Maine. Smith and White, 1905, p. 64, pl. 4: fig. 4.

Palaeotaxites

praecursor White. Permian (Hermit). 38058. Grand Canyon, Arizona. White, 1929, p. 107, pl. 45: fig. 4; pl. 48: fig. 3; pl. 49: figs. 1, 3; pl. 50: figs. 1, 2, 6.

Palmatopteris

subgeniculata (Stur) Renier. Mississippian (Stanley). 39401–03. De Queen quadrangle, Arkansas. White, 1936c, p. 62, pl. 11: figs. 13, 20, 29, 30.

Parasporites

cf. *P. maccabei* Schopf. Pennsylvanian (McLeansboro). 41199–41200. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 23, 24.

Pecopteris

abbreviata? Brongniart. Pennsylvanian (Allegheny). 14237, 14240, 14245. Mazon Creek, Illinois. Lesquereux, 1880, p. 248, pl. 46: figs. 4–6.

cf. *abbreviata* Brongniart. Pennsylvanian (Pottsville). 40900. Clay City quadrangle, Indiana. Jackson, 1917, p. 417, pl. 9: fig. 13.

arborescens (Schlotheim) Brongniart. Pennsylvanian (middle Allegheny). 12637. Olyphant, Pennsylvania. Read and Mamay, 1964, pl. 9: fig. 1.

cf. *arborescens* Brongniart. Pennsylvanian (Cherokee). 14873. Henry County, Missouri. White, 1899a, p. 78, pl. 44: fig. 3.

cf. *P. arborescens* Brongniart. Pennsylvanian (Cherokee). 5595–56, 5686. Henry County, Missouri. White, 1899a, p. 78, pl. 33: fig. 7; pl. 36: fig. 3; pl. 47: fig. 6.

cambuhyensis Read. Permian (Tubarao Series). 40607. Parana, Brazil. Read, 1941, p. 75, pl. 3: figs. 8, 9.

clintoni Lesquereux. Pennsylvanian (Cherokee). 13172–74, 30857. Henry County, Missouri. Lesquereux, 1880, p. 251, pl. 42: figs. 1, 3, 5.

clintoni Lesquereux. Pennsylvanian (Cherokee). 5605–06. Henry County, Missouri. White, 1899a, p. 94, pl. 34: fig. 1; pl. 35: fig. 4.

dentata Brongniart. Pennsylvania (Cherokee). 5621, 5641–43, 5655, 5739. Henry County, Missouri. White, 1899a, p. 75, pl. 24: figs. 1, 2; pl. 25: fig. 1; pl. 26: figs. 2–4; pl. 27.

erosa Gutbier. Pennsylvanian (Cherokee). 30856. Henry County, Missouri. Lesquereux, 1880, p. 255, pl. 44: fig. 1.

fontainei Lesquereux. Pennsylvanian (Allegheny). 14248–49. Mazon Creek, Illinois. Lesley, 1889, p. 606.

georgiana Lesquereux. Pennsylvanian (Pottsville). 12420–22. Dade County, Georgia. Lesquereux, 1884, p. 759, pl. 98: fig. 6.

halli (Lesquereux) Lesquereux. Pennsylvanian (Allegheny). 42328. Mazon Creek, Illinois. Lesquereux, 1880, p. 258.

hemitelioides Brongniart. Pennsylvanian (Cherokee). 5594. Henry County, Missouri. White, 1899a, p. 79, pl. 35: fig. 5.

jenneyi White. Pennsylvanian (Cherokee). 5598–99. Henry County, Missouri. White, 1899a, p. 80, pl. 36: figs. 1, 2.

- lanceolata* Lesquereux (counterpart). Pennsylvanian (Allegheny). 12542. Mazon Creek, Illinois. Lesquereux, 1880, p. 227, pl. 39: fig. 9.
- lesquereuxi* White. Pennsylvanian. 41012. Belleville, Missouri. White, 1893a, pp. 65–67, pl. 2: fig. 4.
- lyratifolia* (Goepfert) Lesquereux. Pennsylvanian (Allegheny). 13382. Mazon Creek, Illinois. Lesquereux, 1880, p. 259, pl. 48: fig. 4.
- miltoni* Brongniart. Pennsylvanian (Allegheny). 12847. Shamokin, Pennsylvania. Read and Mamay, 1964, pl. 10: fig. 1.
- obsoleta* Lesquereux. Pennsylvanian (Allegheny). 13377–79. Cannelton, Pennsylvania. Lesquereux, 1884, p. 758, pl. 111: fig. 29.
- oregonensis* Arnold. Pennsylvanian (Spotted Ridge). 40719–25. Crook County, Oregon. Mamay and Read, 1956, p. 219, pl. 36: figs. 1–7.
- ornata* Lesquereux. Pennsylvanian (Allegheny). 13385–88. Mazon Creek, Illinois. Lesquereux, 1884, p. 760, pl. 111: figs. 30, 30a.
- paranaensis* Read. Permian (Tubarao Series). 40608–09, 40620–22. Parana, Brazil. Read, 1941, p. 75, pl. 2: figs. 1–5; pl. 3: figs. 2, 3.
- pedrasica* Read. Permian (Tubarao Series). 40610–12. Parana, Brazil. Read, 1941, p. 73, pl. 2: figs. 6–9.
- pennaeformis* Brongniart. Pennsylvanian (Cherokee). 12772. Henry County, Missouri. Lesquereux, 1880, p. 239, pl. 45: fig. 1.
- plumosa* Artis. Pennsylvanian (Pottsville). 40856, 40858–59. Bloomington quadrangle, Indiana. Jackson, 1917, p. 416, pl. 4: figs. 3, 5, 6.
- pseudovestita* White. Pennsylvanian (Cherokee). 5644–45, 5648, 5725, 5809, 13097, 13174, 13179, 41056. Henry County, Missouri. White, 1899a, p. 85, pl. 28: figs. 1–2a; pl. 29; pl. 30: fig. 1; pl. 31: figs. 1–3; pl. 32: figs. 1, 2.
- quadratifolia* Lesquereux. Pennsylvanian (Allegheny). 12702. Cannelton, Pennsylvania. Lesquereux, 1884, p. 756, pl. 100: fig. 1.
- resupinata* Lesquereux. Pennsylvanian (Allegheny). 14870–71. Mazon Creek, Illinois. Lesley, 1889, p. 608.
- richardsoni* White. Pennsylvanian (McAlester). 6423, 6426–27. McAlester, Oklahoma. White, 1899b, p. 492, pl. 68: figs. 2–4.
- robusta* Lesquereux. Pennsylvanian. 12523–25. Port Griffith, Pennsylvania. Lesquereux, 1880, p. 229, pl. 39: figs. 7, 8.
- serpillifolia* Lesquereux. Pennsylvanian (Allegheny). 13929–31. Mazon Creek, Illinois. Lesquereux, 1880, p. 237, pl. 46: figs. 1–3.
- serrulata* Hartt. Pennsylvanian. 13864, 13867–68. Washington County, Arkansas, and Tracy, Tennessee. Lesquereux, 1884, p. 757, pl. 101: figs. 4, 6, 8.
- squamosa* Lesquereux. Pennsylvanian (Cabaniss). 12700. Lansing, Kansas. Cridland et al., 1963, pl. 22: fig. 49.
- vestita* Lesquereux. Pennsylvanian (Cherokee). 13127, 13160. Henry County, Missouri. Lesquereux, 1880, p. 252, pl. 43: figs. 1, 3.
- vestita* Lesquereux. Pennsylvanian (Cherokee). 5646–47, 5683–84, 5808, 6087. Henry County, Missouri. White, 1899a, p. 91, pl. 26: fig. 1; pl. 33: figs. 2–5; pl. 59: fig. e.
- vestita* Lesquereux. Pennsylvanian (Cherokee). 5745. Henry County, Missouri. Read and Mamay, 1964, pl. 8: fig. 1.
- vestita minor* White. Pennsylvanian (McAlester). 6698, 6702. Krebs, Oklahoma. White, 1899b, p. 495. species. Pennsylvanian. 40877, 40892, 40895, 40904. Clay City quadrangle, Indiana. Jackson, 1917, p. 417, pl. 6: fig. 13; pl. 9: figs. 1, 5; pl. 10: fig. 2. species. Pennsylvanian. 41981. Durham, Georgia. Allen and Lester, 1954, pl. 35: fig. 2.

Phyllothea

- australis* Brongniart. Permian (Tubarao Series). 40615. Parana, Brazil. Read, 1941, p. 89, pl. 6: fig. 4.
- griesbachi* Zeiller. Early Permian. 31915–16. Santa Catharina, Brazil. White, 1908, p. 423, pl. 5: figs. 9, 10.
- muelleriana* White. Early Permian. 31917. Santa Catharina, Brazil. White, 1908, p. 427, pl. 5: fig. 8.
- paulinensis* Mamay and Read. Pennsylvanian (Spotted Ridge). 40710–18. Crook County, Oregon. Mamay and Read, 1956, p. 216, pl. 34: figs. 6–8; pl. 35: figs. 1–6. species. Permian (Tubarao Series). 40613–14. Parana, Brazil. Read, 1941, p. 91, pl. 3: figs. 5, 6. species. Early Permian. 31918–20. Santa Catharina, Brazil. White, 1908, p. 429, pl. 5: figs. 3–5.

Physophycus

bilobatus Lesquereux. Late Devonian. 7154. Near Cleveland, Ohio. Lesquereux, 1890, pp. 9–11, pl. 1: figs. 4–8.

Phytopsis

cellulosa Hall. Middle Ordovician. 41121. Watertown, New York. Hall, 1847, p. 39, pl. 9: fig. 1*d*.
tuberosum Hall. Early Silurian. 41084. Near Amsterdam, New York. Hall, 1847, p. 38, pl. 8: fig. 1.

Pietzschia

polyupsilon Read and Campbell. Devonian. 41267. Holy Cross, Kentucky. Read and Campbell, 1939, p. 444, pl. 2: fig. 2.

Plicorachis

danvillensis Read and Campbell. Devonian. 41254. Junction City, Kentucky. Read and Campbell, 1939, p. 447, pl. 3: fig. 3.

Plinthiotheca

angularis (Lesquereux) White. Pennsylvanian ("Anthracite" Series). 25255–56. Port Griffith, Pennsylvania. White, 1903, p. 101.

Plumalina

plumaria Hall. Devonian. 41130. Ithaca, New York. Hall, 1843, p. 273, illus. 125.

Polysporia

mirabilis Newberry. Pennsylvanian (Allegheny). 15985a, 16132a–b, 26051a–b, 40925–26. Mazon Creek, Illinois; Cannelton, Pennsylvania; Talmadge, Ohio. Chaloner, 1958, pp. 199–209, pl. 31: figs. 1, 2, 4, 5; pl. 32: figs. 1, 3, 8.

Polyxylon

elegans Read and Campbell. Devonian. 41241. New Albany, Indiana. Read and Campbell, 1939, p. 442, pl. 2: figs. 1, 5.

Prosseria

grandis Read. Devonian (late Genesee). 40631. Near Pen Yan, Yates County, New York. Read, 1953, pp. 13–16: figs. 1, 2.

Protocalamites

dorfi Read and Campbell. Devonian. 41277. New Albany, Indiana. Read and Campbell, 1939, p. 444, pl. 4: figs. 3, 4.

Protolepidodendron

microphyllum Read and Campbell. Devonian. 41276. New Albany, Indiana. Read and Campbell, 1939, p. 443, pl. 3: figs. 1, 2.

Prototaxites

ortoni Read and Campbell. Devonian. 41275. Roaring Fork Valley, Kentucky. Read and Campbell, 1939, p. 442, pl. 5: fig. 4.

Pseudobornia

ursina Nathorst. Devonian. 41850–53. Alaska. Mamay, 1962, pp. 19–22, pl. 1: figs. 2–7.

Pseudopecopteris

anceps Lesquereux. Pennsylvanian (Allegheny). 13401. Cannelton, Pennsylvania. Lesquereux, 1880, p. 207, pl. 38: fig. 3.

decipiens Lesquereux. Pennsylvanian (Pottsville). 15008, 41166. Helena, Alabama. Lesquereux, 1880, p. 214, pl. 52: figs. 9, 10.

dimorpha Lesquereux. Pennsylvanian ("Anthracite" Series). 13565–66. Plymouth, Pennsylvania. Lesquereux, 1884, p. 750, pl. 98: fig. 4.

cf. *dimorpha* Lesquereux. Pennsylvanian (Pottsville). 40845. Bloomington quadrangle, Indiana. Jackson, 1917, p. 416, pl. 2: fig. 5.

hispida Lesquereux. Pennsylvanian (Allegheny). 13737. Cannelton, Pennsylvania. Lesquereux, 1884, p. 755, pl. 98: fig. 3.

irregularis (Sternberg) Lesquereux. Pennsylvanian (Cherokee). 13639. Henry County, Missouri. Lesquereux, 1880, p. 211, pl. 52: figs. 1, 2; 1884, p. 754, pl. 98: fig. 2.

macilenta (Lindley and Hutton) Lesquereux. Pennsylvanian (Allegheny). 14807. Cannelton, Pennsylvania. Lesquereux, 1880, p. 754, pl. 98: fig. 2.

macilenta (Lindley and Hutton) Lesquereux. Pennsylvanian (McAlester). 6433–34. McAlester, Oklahoma. White, 1899b, p. 472, pl. 67: figs. 10, 11.

cf. *macilenta* Lindley and Hutton. Pennsylvanian (Pottsville). 40842, 40844. Bloomington quadrangle, Indiana. Jackson, 1917, p. 416, pl. 2: figs. 1*b*, 4.

mazoniana Lesquereux. Pennsylvanian (Allegheny). 13902. Mazon Creek, Illinois. Lesquereux, 1880, p. 190, pl. 32: fig. 1.

nummularia Gutbier. Pennsylvanian (Cherokee). 14886, 14891. Henry County, Missouri. Lesquereux, 1884, p. 752, pl. 103: figs. 1, 2.

obtusiloba (Brongniart) Lesquereux. Pennsylvanian (Cherokee). 5627, 5635, 5717–18. Henry County, Missouri. White, 1899a, p. 24, pl. 7: figs. 1–3; pl. 8: fig. 1.

obtusiloba (Brongniart) Lesquereux. Pennsylvanian (Pottsville). 40896. Clay City quadrangle, Indiana. Jackson, 1917, p. 416, pl. 9: fig. 7.

pluckneti (Schlotheim) Lesquereux. Pennsylvanian (Allegheny). 13547. Cannelton, Pennsylvania. Lesquereux, 1880, p. 199, pl. 35: fig. 7.

sillimanni (Brongniart) Lesquereux. Pennsylvanian (Allegheny). 13508. Cannelton, Pennsylvania. Lesquereux, 1880, p. 206, pl. 37: fig. 3.

speciosa Lesquereux. Pennsylvanian (Pottsville). 41170. Helena, Alabama. Lesquereux, 1880, p. 216, pl. 51: fig. 1.

species. Pennsylvanian (Cherokee). 5618, 5667. Henry County, Missouri. White, 1899a, p. 29, pl. 7: figs. 4, 5.

Psilophyton

alcicorne White. Devonian. 36474–75. Perry, Maine. Smith and White, 1905, p. 64, pl. 5: figs. 1, 2.

grandis Penhallow. Devonian (Hamilton). 5402–03, 5408. West Hurley, New York. Penhallow, 1893, p. 111, pl. 12: fig. 12*a*; pl. 13: fig. 12*b*; pl. 14: fig. 12*c*.

cf. *P. princeps* Dawson. Devonian. 36475–80, 36485–86. Perry, Maine. Smith and White, 1905, p. 58, pl. 5: figs. 3–7; pl. 6: figs. 7, 8.

Psygmophyllum?

species. Permian (Hermit). 38050. Grand Canyon, Arizona. White, 1929, p. 95, pl. 44: fig. 7.

Ptilophyton

lineare (Lesquereux) Dawson. Mississippian. 19281–82. Rushville, Ohio. Dawson, 1882, p. 123, fig. V (2).

Rachiopteris

squamosa Lesquereux. Pennsylvanian (Allegheny). 19608–10. Cannelton, Pennsylvania. Lesquereux, 1884, p. 838.

Reimanniopsis

indianensis (Read and Campbell) Hoskins and Cross. Early Mississippian. 41239. New Albany, Indiana. Hoskins and Cross, 1951, p. 609: fig. 2.

Reinschia

australis brasiliensis White. Early Permian. 31909. Bahia, Brazil. White, 1908, p. 407, pl. 11: figs. 11, 12.

Rhabdocarpos

abnormalis Lesquereux. Pennsylvanian (Allegheny). 26370. Cannelton, Pennsylvania. Lesquereux, 1884, p. 818, pl. 110: figs. 48, 49.

amygdalaeformis Goepfert and Berger. Pennsylvanian (Pottsville). 26630. Pittston, Pennsylvania. Lesquereux, 1880, p. 581, pl. 85: fig. 27.

apiculatus Lesquereux. Pennsylvanian ("Anthracite" Series). 26756. Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 819, pl. 110: fig. 50.

arcuatus Lesquereux. Pennsylvanian (Allegheny). 26368. Cannelton, Pennsylvania. Lesquereux, 1880, p. 583.

clavatus (Sternberg) Geinitz. Pennsylvanian. 26268, 41069. Mazon Creek, Illinois, and Helena, Alabama. Lesquereux, 1870, p. 461, pl. 31: fig. 11; 1880, p. 581, pl. 85: figs. 14, 20.

coronatus White. Pennsylvanian (LeRoy). 26568. Ottawa, Kansas. White, 1903, p. 109.

- costatulus* White. Mississippian (Jackfork). 39416–17. Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 65, pl. 12: figs. 9, 10.
- inflatus* Lesquereux. Pennsylvanian (Allegheny). 26116–17. Cannelton, Pennsylvania. Lesquereux, 1884, p. 815, pl. 110: fig. 36.
- insignis* Lesquereux. Pennsylvanian. 41068. Pittston, Pennsylvania. Lesquereux, 1880, p. 575, pl. 85: fig. 26.
- jacksonianium* Lesquereux. Pennsylvanian. 26177–78. Dolomite, Alabama. Lesley, 1889, p. 867.
- late-costatus* Lesquereux. Pennsylvanian (Pottsville). 25830–32. Pittston, Pennsylvania. Lesquereux, 1884, p. 815, pl. 110: figs. 34, 35.
- mamillatus* Lesquereux. Pennsylvanian. 26762–65. Stark County, Illinois. Lesquereux, 1884, p. 815, pl. 110: figs. 39–42.
- mansfieldi* Lesquereux. Pennsylvanian (Allegheny). 25977. Cannelton, Pennsylvania. Lesquereux, 1880, p. 537, pl. 85: fig. 21.
- multistriatus* Presl. Pennsylvanian. 26122. Rock Island, Illinois. Lesquereux, 1880, p. 578, pl. 85: fig. 23.
- pachytesta* Lesquereux. Pennsylvanian (Allegheny). 26796–97. Mazon Creek, Illinois. Lesquereux, 1884, p. 816, pl. 110: fig. 37.
- russelli* Lesquereux. Pennsylvanian. 41234. Gadsden, Alabama. Lesquereux, 1888, p. 86, pl. 29: fig. 10.
- secalicus* White. Mississippian (Stanley). 39413–14. De Queen quadrangle, Arkansas. White, 1936c, p. 65, pl. 12: figs. 4–6.
- subglobosus* Lesquereux. Pennsylvanian. 26330–32. Cannelton and Pittston, Pennsylvania. Lesquereux, 1884, p. 817, pl. 110: figs. 43, 44, 62.
- tenax* Lesquereux. Pennsylvanian (Allegheny). 26458–59. Cannelton, Pennsylvania. Lesquereux, 1884, p. 818, pl. 111: figs. 25, 26.
- species. Pennsylvanian. 26362–65. Pratt mines, Alabama. Lesley, 1889, p. 869, figs. a–d.
- species. Pennsylvanian (Pottsville). 40873. Bloomington quadrangle, Indiana. Jackson, 1917, p. 426, pl. 6: fig. 3.

Rhachiopteris

- pinnata* Dawson var. *angustipinna* White. Devonian. 36463–65. Perry, Maine. Smith and White, 1905, p. 50, pl. 4: figs. 1–3.

Rhacophyllum

- adnascens* Lindley and Hutton. Pennsylvanian. 40951. Colchester, Illinois. Lesquereux, 1880, p. 321, pl. 57: fig. 10.
- corrallum* Lesquereux. Pennsylvanian (Allegheny). 19469. Mazon Creek, Illinois. Lesquereux, 1880, p. 317, pl. 57: fig. 4.
- expansum* Lesquereux. Pennsylvanian (“Anthracite” Series). 19435. Olyphant, Pennsylvania. Lesquereux, 1880, p. 323, pl. 57: fig. 6.
- fucoideum* Lesquereux. Pennsylvanian (Allegheny). 19442–43. Mazon Creek, Illinois. Lesquereux, 1880, p. 325, pl. 58: figs. 6, 7.
- hamulosum* Lesquereux. Pennsylvanian (Cherokee). 19445. Henry County, Missouri. Lesquereux, 1880, p. 321, pl. 58: fig. 3.
- inflatum* Lesquereux. Pennsylvanian. 41072. Du Quoin, Illinois. Lesquereux, 1880, p. 323, pl. 57: figs. 7, 8.
- membranaceum* Lesquereux. Pennsylvanian (Cherokee). 19465–66. Henry County, Missouri. Lesquereux, 1880, p. 312, pl. 58: figs. 1, 2.
- molle* (Lesquereux) Lesquereux. Pennsylvanian (Allegheny). 40948, 40952, 40954. Mazon Creek, Illinois. Lesquereux, 1880, p. 326.
- spinosum* Lesquereux. Pennsylvanian (Cherokee). 19436. Henry County, Missouri. Lesquereux, 1880, p. 320, pl. 58: fig. 4.
- strongi* Lesquereux. Pennsylvanian (Allegheny). 19431. Mazon Creek, Illinois. Lesquereux, 1880, p. 325.
- thalliforme* (Lesquereux) Lesquereux. Pennsylvanian. 40949–50. Mazon Creek and Colchester, Illinois. Lesquereux, 1880, p. 324.
- trichoideum* Lesquereux. Pennsylvanian (“Anthracite” Series). 19453–54. Wilkes-Barre, Pennsylvania. Lesquereux, 1880, p. 322.
- truncatum* Lesquereux. Devonian (Catskill). 19414. Coxtton Narrows, Pennsylvania. Lesquereux, 1880, p. 311, pl. 50: fig. 7.

Rhacopteris

- latifolia* (Arnold) Read. Mississippian (Pocono). 40666–68. Altoona, Pennsylvania. Read, 1955, p. 16, pl. 16: fig. 5; pl. 18: figs. 2, 3.—Read and Mamay, 1964, pl. 1: fig. 2.
- ovata* (McCoy) Walkom. Mississippian. 41008. Paracas Peninsula, Peru. Read, 1938a, p. 401, fig. 1.

Rhacopteris

- sp. cf. *R. cuneata* Walkom. Mississippian. 41006. Paracas Peninsula, Peru. Read, 1938a, p. 401: fig. 5.
 species. Mississippian (Wedington). 39486. Winslow quadrangle, Arkansas. White, 1936b, p. 20, pl. 4: figs. 1, 6.

Rhizomorpha

- sigillariae* Lesquereux. Pennsylvanian (Allegheny). 25016. Cannelton, Pennsylvania. Lesquereux, 1878, p. 174, pl. 1: fig. 9; 1880, p. 3, pl. B: fig. 11.

Rhodea

- allegghanensis* Read. Mississippian (Pocono). 40691. Tionesta, Pennsylvania. Read, 1955, p. 18, pl. 16: fig. 4.
blackburgensis Read. Mississippian (Pocono). 40656. Vicker, Virginia. Read, 1955, p. 22, pl. 3: figs. 1, 2.
goepperti (Ettinghausen) Stur. Mississippian (Stanley). 39384–91. De Queen, Arkansas. White, 1936c, p. 63, pl. 10: figs. 6–9, 12, 15, 16; pl. 11: figs. 7, 25, 26.
 cf. *R. moravica* (Ettinghausen) Stur. Mississippian (Wedington). 39488. Winslow quadrangle, Arkansas. White, 1936b, p. 21, pl. 4: figs. 19, 24, 25.
 cf. *R. subpetiolata* (Potonie) Nemejc. Mississippian (Wedington). 39487. Winslow quadrangle, Arkansas. White, 1936b, p. 21, pl. 4: figs. 2, 3.
 cf. *R. tenuis* Gothan. Mississippian (Stanley). 39392. De Queen quadrangle, Arkansas. White, 1936c, p. 62, pl. 11: figs. 5, 12.
tionestana Read. Mississippian (Pocono). 40658. Tionesta, Pennsylvania. Read, 1955, p. 18, pl. 18: fig. 1.
vespertina Read. Mississippian (Price). 19923, 40638–39, 40657. Vicker, Virginia. Read, 1955, p. 22, pl. 3: figs. 3, 4; pl. 4: figs. 1–4; pl. 16: fig. 6.—Read and Mamay, 1964, pl. 2: fig. 3.

Rhynchogonium

- choctavense* White. Mississippian (Jackfork). 39409–11. Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 65, pl. 12: figs. 2, 3, 8.
fayettevillense White. Mississippian (Wedington). 39504–12. Winslow quadrangle, Arkansas. White, 1936b, p. 25, pl. 8: figs. 1–5, 7, 8, 12–14, 22.

Rivularites

- permiensis* White. Permian (Hermit). 38024. Grand Canyon, Arizona. White, 1929, p. 41, pl. 6; pl. 7: figs. 1–3; pl. 8: figs. 1, 4.
 Root of a marine plant. Late Silurian. 41122. New Hartford, New York. Hall, 1852, p. 21, pl. 10: fig. 4.

Rosellinites

- gangamopteridis* White. Early Permian. 31911. Santa Catharina, Brazil. White, 1908, p. 413, pl. 5: fig. 1.

Rusophycus

- clavatus* Hall. Late Silurian. 41114, 41116. New Hartford, New York. Hall, 1852, p. 23, pl. 8: figs. 1a, 1b.
pubidicus Hall. Late Silurian. 41113, 41115. New Hartford, New York, Hall, 1852, p. 24, pl. 8: figs. 6a, 6b.
subangulatus Hall. Late Silurian. 41112. New Hartford, New York. Hall, 1852, p. 23, pl. 8: fig. 2b.

Samaropsis

- longi* Schopf. Permian. 41996–97. Mt. Glossopteris, Antarctica. Schopf, 1962, p. 33, pl. 11: figs. 3–5, 4d, 4e.

Schizoneura?

- Devonian (Genesee). 8327. Yates County, New York. Penhallow, 1893, p. 107, pl. 9: fig. 3.
 species. Early Permian. 31914. Santa Catharina, Brazil. White, 1908, p. 435, pl. 5: fig. 6.

Schizopodium

- mummi* Read. Devonian (Hamilton). 41287. Canandaigua Lake, New York. Read, 1938c, p. 600, pl. 30: figs. 1–3.

cf. **Schizopteris**

- trichomanoides* Goeppert. Pennsylvanian (Spotted Ridge). 40726. Crook County, Oregon. Mamay and Read, 1956, p. 221, pl. 36: figs. 8, 9.

Schutzia

bracteata Lesquereux. Pennsylvanian (Allegheny). 41070. Mazon Creek, Illinois. Lesquereux, 1870, p. 427, pl. 21: fig. 6.

Sclerocelyphus

oviformis Mamay. Pennsylvanian (Cherokee). 41289. West Mineral, Kansas. Mamay, 1954c, pl. 21: figs. 1–12.

cf. *Scolecoperis*

minor Hoskins. Pennsylvanian (McLeansboro). 41209–41212. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 33–36.

Siderella

scotti Read. Devonian. 41265–66. Junction City, Kentucky. Read, 1936, p. 226, figs. 12, 16.

Sigillaria

australis White. Early Permian. 31929. Santa Catharina, Brazil. White, 1908, p. 465, pl. 6: fig. 11.

brardi Brongniart. Early Permian. 31928, 31928½. Rio Grande do Sul, Brazil. White, 1908, p. 459, pl. 5: figs. 12, 12a.

brardi Brongniart. Pennsylvanian (Stranger). 8673. Blue Mounds, Kansas. Cridland et al., 1963, pl. 17: fig. 8.

brardi coriacea White. Pennsylvanian (LeRoy). 16604–08. Lawrence, Kansas. White, 1903, p. 105.

brardi var. *coriacea* White. Pennsylvanian (Lawrence). 16606. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 5.

camptotaenia Wood. Pennsylvanian (Cherokee). 6060a, 6063–64, 6094, 6106, 6112. Henry County, Missouri. White, 1899a, p. 230, pl. 61: fig. 1g; pl. 62: fig. 1; pl. 70: figs. 1, 3, 4.

chemungense Hall. Devonian. 41128. Elmira, New York. Hall, 1843, p. 274, illustr. 127, fig. 2.

elegans? Sternberg. Pennsylvanian (Pottsville). 40882, 40890. Clay City quadrangle, Indiana. Jackson, 1917, p. 413, pl. 7: fig. 8; pl. 8: fig. 7.

grand'euryi Lesquereux. Pennsylvanian (Allegheny). 16399–400. Cannelton, Pennsylvania. Lesquereux, 1884, p. 795.

ichthyolepis Sternberg. Pennsylvanian (Merom). 35319. Newport, Indiana. Lesquereux, 1880, p. 482, pl. 73: fig. 7.

lacoiei Lesquereux. Pennsylvanian (“Anthracite” Series). 16806–12. Plymouth, Pennsylvania. Lesquereux, 1880, p. 499, pl. 72: fig. 12.

laurenciana White. Pennsylvanian (LeRoy). 16570–71. Lawrence, Kansas. White, 1903, p. 106.

laurenciana White. Pennsylvanian (Lawrence). 16571. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 7.

leptoderma Lesquereux. Pennsylvanian (“Anthracite” Series). 16779–83. Plymouth, Pennsylvania. Lesquereux, 1880, p. 489, pl. 72: fig. 10.

leveretti Lesquereux. Pennsylvanian (Des Moines). 16445–46. Des Moines County, Iowa. Lesquereux, 1884, p. 800, pl. 108: figs. 4, 5.

mamillaris Brongniart. Pennsylvanian. 16520, 16532, 16540. Cannelton and Plymouth, Pennsylvania. Lesquereux, 1880, p. 483, pl. 72: fig. 5; 1884, p. 799, pl. 108: fig. 6.

marginata Lesquereux. Pennsylvanian. 16798–99. Plymouth, Pennsylvania. Lesquereux, 1880, p. 498, pl. 71: fig. 5.

monostigma Lesquereux. Pennsylvanian (Allegheny). 16415–18. Cannelton, Pennsylvania. Lesquereux, 1880, p. 468, pl. 73: figs. 3–6.

?*muralis* White. Early Permian. 32044a–b. Rio Grande do Sul, Brazil. White, 1908, p. 467, pl. 12: figs. 1–4.

ovalis Lesquereux. Pennsylvanian (“Anthracite” Series). 16553. Plymouth, Pennsylvania. Lesquereux, 1880, p. 495, pl. 71: fig. 7.

pittstoniana Lesquereux. Pennsylvanian (“Anthracite” Series). 16709–14. Plymouth, Pennsylvania. Lesquereux, 1880, p. 493, pl. 71: fig. 4.

rectostriata Lesquereux MS. Pennsylvanian (Chanute). 16576. Thayer, Kansas. Cridland et al., 1963, pl. 17: fig. 9.

sigillarioides (Lesquereux) White. Pennsylvanian (Cherokee). 16659. Henry County, Missouri. White, 1899a, p. 239, pl. 70: fig. 2.

suspecta White. Pennsylvanian (LeRoy). 16650, 19732. Lawrence, Kansas. White, 1903, p. 106.

suspecta White. Pennsylvanian (Lawrence). 16650. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 12.

voltzi Brongniart Pennsylvanian (“Anthracite” Series). 16778. Plymouth, Pennsylvania. Lesquereux, 1880, p. 492, pl. 72: fig. 11.

williamsi Lesquereux. Pennsylvanian ("Anthracite" Series). 16745–46. Olyphant, Pennsylvanian. Lesquereux, 1884, p. 801, pl. 107: fig. 15.

species. Early Permian. 31930–31. Santa Catharina, Brazil. White, 1908, pp. 471, 473, pl. 5: fig. 13; pl. 6: fig. 10.

species. Pennsylvanian (Vandever). 41990. Durham, Georgia. Allen and Lester, 1954, pl. 36: fig. 4.

Sigillarioid leaves. Pennsylvanian (Cherokee). 6102. Henry County, Missouri. White, 1899a, p. 230, pl. 64: fig. *e*.

Sigillariostrobus

quadrangularis (Lesquereux) White. Pennsylvanian. 25274, 25277. Port Griffith, Pennsylvania. Wood, 1957, pp. 141–154: figs. 9, 10.

Sorocladus

dispensus Lesquereux. Permian (Dunkard). 19612. Cassville, West Virginia. Lesley, 1890, p. 973.

ophioglossoides Lesquereux. Pennsylvanian (Cherokee). 14270. Henry County, Missouri. Lesquereux, 1880, p. 329, pl. 48: fig. 11.

sagittatus Lesquereux. Pennsylvanian (Allegheny). 14274–77. Mazon Creek, Illinois. Lesquereux, 1884, p. 760, pl. 100: figs. 4, 5.

Spencerisporites

species. Pennsylvanian (McLeansboro). 41187–41190. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 11–14.

Sphenophyllum

angustifolium Germar. Pennsylvanian (Monogahela). 18710. Hocking Valley, Ohio. Lesquereux, 1884, p. 726, pl. 93: fig. 8.

arkansanum White. Mississippian (Stanley). 39441–44. De Queen quadrangle, Arkansas. White, 1936c, p. 55, pl. 14: figs. 10, 12, 14, 15, 19, 20.

bifurcatum Lesquereux. Pennsylvanian (Pottsville). 18629. Washington County, Arkansas. Lesquereux, 1860, p. 309, pl. 1: fig. 2; 1880, p. 55, pl. 2: fig. 10.

cuneifolium (Sternberg) Zeiller. Pennsylvanian (Pottsville). 40836–37, 40840. Bloomington quad-

rangle, Indiana. Jackson, 1917, p. 411, pl. 1: figs. 2, 3, 6.

emarginatum Brongniart. Pennsylvanian (Cherokee). 6068. Henry County, Missouri. White, 1899a, p. 177, pl. 59: fig. 1*d*.

emarginatum Brongniart. Pennsylvanian. 18550. Avoca, Pennsylvania. Abbott, 1958, p. 339, pl. 38: fig. 29.

fasciculatum (Lesquereux) White. Pennsylvanian (Cherokee). 5637, 5639, 18295–96. Henry County, Missouri. White, 1899a, p. 183, pl. 50: figs. 1–4.

fasciculatum (Lesquereux) White. Pennsylvanian (Cherokee). 18292. Henry County, Missouri. Abbott, 1958, p. 342, pl. 48: fig. 84.

gilmorei White. Permian (Hermit). 38025. Grand Canyon, Arizona. White, 1929, p. 44, pl. 3; pl. 9: figs. 1, 2, 4; pl. 10: figs. 1, 3–6; pl. 21: fig. 5.—Read and Mamay, 1964, pl. 15: fig. 2.

lescurianum White. Pennsylvanian (Cherokee). 12386, 18711. Henry County, Missouri. White, 1899a, p. 182, pl. 24: fig. 3*c*; pl. 50: fig. 6*b*; pl. 51: fig. *b*.

majus Brongniart. Pennsylvanian (Cherokee). 5679–80, 18711. Henry County, Missouri. White, 1899a, p. 180, pl. 50, figs. 5, 6*a*; pl. 51: fig. *a*; pl. 73: fig. 3.

oblongifolium (Germar and Kalfuss) Unger. Permian (Tubarao Series). 40616. Parana, Brazil. Read, 1941, p. 91, pl. 6: figs. 1, 2.

suspectum White. Pennsylvanian (McAlester). 6431, 6747. McAlester, Oklahoma. White, 1899b, p. 522, pl. 68: figs. 11, 12.

tenerrimum Ettinghausen. Pennsylvanian (Pottsville). 18461, 18463. Rushville, Ohio. Lesquereux, 1884, p. 728, pl. 92: figs. 9, 10.—Abbott, 1958, p. 357, pl. 48: fig. 82.

tenerrimum elongatum White. Pennsylvanian (Pottsville). 40969, 40981. New Lincoln colliery, Pennsylvania. White, 1900, p. 898, pl. 193: figs. 8, 9.

tenue White. Pennsylvanian (Pottsville). 18501–02, 40966. Pocahontas quadrangle, West Virginia, and Warrior, Alabama. White, 1900, p. 901, pl. 191: figs. 6, 7.

tenue White. Pennsylvanian (Pottsville). 40835. Bloomington quadrangle, Indiana. Jackson, 1917, p. 410, pl. 1: fig. 1.

species. Mississippian (Wedington). 39476. Winslow quadrangle, Arkansas. White, 1936b, p. 40, pl. 8: fig. 16.

Sphenopteridium

brooksi Read. Mississippian (Pocono). 40654–55. Beech Fork, West Virginia. Read, 1955, p. 28, pl. 1: figs. 10, 11, 14.—Read and Mamay, 1964, pl. 2: fig. 4.

dawsoni (Stur) Potonie. Mississippian (Stanley). 39377. De Queen quadrangle, Arkansas. White, 1936c, p. 63, pl. 11: fig. 11.

girtya Read. Mississippian (Pocono). 40675–79. Beech Fork, West Virginia. Read, 1955, p. 28, pl. 1: figs. 1–6.

virginianum Read. Mississippian (Pocono). 40636–37. Whitaker Falls, Virginia. Read, 1955, p. 27, pl. 1: figs. 7–9.

Sphenopteris

brittsi Lesquereux. Pennsylvanian (Cherokee). 14953. Henry County, Missouri. Lesquereux, 1880, p. 277, pl. 55: fig. 2.

brittsi Lesquereux. Pennsylvanian (Allegheny?). 14954–55. Nelsonville, Ohio. Lesquereux, 1884, p. 764, pl. 102: figs. 3, 4.

brittsi Lesquereux. Pennsylvanian (Cherokee). 5626, 5668–69, 5703, 5705–06. Henry County, Missouri. White, 1899a, p. 53 pl. 15: fig. 1; pl. 16; pl. 17; pl. 18, figs. 1, 2; pl. 19: fig. 3.

broadheadi White. Pennsylvanian (Cherokee). 5619–20. Henry County, Missouri. White, 1899a, p. 41, pl. 13: figs. 1, 2.

canneltonensis White. Pennsylvanian (Allegheny). 5569, 14672. Cannelton, Pennsylvania, and Henry County, Missouri. White, 1899a, p. 55, pl. 15: fig. 2.

capitata White. Pennsylvanian (Cherokee). 5662. Henry County, Missouri. White, 1899a, p. 57, pl. 15: fig. 3.

cheathamii (Lesquereux) Read. Pennsylvanian (Weber). 39154, 39158. Evans Peak, Colorado. Read, 1934, p. 86, pl. 17: figs. 1–4.

communis Lesquereux. Pennsylvanian (coal-bearing shale). 14340. Washington County, Arkansas. Lesquereux, 1884, p. 762, pl. 104: fig. 1.

communis Lesquereux. Pennsylvanian (Pottsville). 40838. Bloomington quadrangle, Indiana. Jackson, 1917, p. 414, pl. 1: fig. 4.

cf. *S. communis* Lesquereux. Mississippian (Wedington). 39490. Winslow quadrangle, Arkansas. White, 1936b, p. 21, pl. 4: fig. 9.

cf. *communis* Lesquereux. Pennsylvanian (Pottsville). 40839. Bloomington quadrangle, Indiana. Jackson, 1917, p. 414, pl. 1: fig. 5.

cristata Sternberg. Pennsylvanian. 14644. Rhode Island. Lesquereux, 1884, p. 761, pl. 102: fig. 1.

erectiloba White. Mississippian (Wedington). 39491. Winslow quadrangle, Arkansas. White, 1936b, p. 21, pl. 4: figs. 10, 16.

cf. *S. gravenhorsti* Brongniart. Pennsylvanian (Cherokee). 5720. Henry County, Missouri. White, 1899a, p. 50, pl. 19: fig. 2.

gravenhorsti var. B Brongniart. Pennsylvanian (Pottsville). 14397. Dade County, Georgia. Lesquereux, 1884, p. 763, pl. 101: fig. 1.

harveyi Lesquereux. Pennsylvanian (coal-bearing shale). 14386. Washington County, Arkansas. Lesquereux, 1884, p. 766, pl. 103: fig. 7.

harveyi Lesquereux. Pennsylvanian (Pottsville). 41229, 41231. Gadsden, Alabama. Lesquereux, 1888, p. 84, pl. 29: figs. 5, 6, 9.

harveyi robusta Lesquereux. Pennsylvanian (Pottsville). 41235. Gadsden, Alabama. Lesquereux, 1888, p. 85, pl. 29: fig. 8.

hastata McCoy. Early Permian. 31935. Santa Catharina, Brazil. White, 1908, p. 475, pl. 6: fig. 1.

hitchcockana Dawson. Devonian. 41117. Perry, Maine. Dawson, 1862, p. 311, pl. 16: fig. 51.

hymenophylloides Brongniart. Pennsylvanian (Allegheny). 14672. Cannelton, Pennsylvania. Lesquereux, 1884, p. 764, pl. 102: fig. 2.

illinoisensis White. Pennsylvanian (Cherokee). 5661, 5697. Henry County, Missouri. White, 1899a, p. 58, pl. 44: fig. 1; pl. 19: fig. 4.

inequilateralis Lesquereux. Pennsylvanian (Pottsville). 41164. Washington County, Arkansas. Lesquereux, 1884, p. 765, pl. 103: fig. 4.

inequilateralis Lesquereux. Pennsylvanian (Pottsville). 40846. Bloomington quadrangle, Indiana. Jackson, 1917, p. 414, pl. 2: fig. 6.

lacoii White. Pennsylvanian (Cherokee). 5802. Henry County, Missouri. White, 1899a, p. 38, pl. 12: fig. 3.

lacoii White. Pennsylvanian. 41017. Belleville, Missouri. White, 1893a, pp. 56–58, pl. 2: fig. 5.

lobifolia Morris (counterpart). Pennsylvanian. 1360. Newcastle, New South Wales, Australia. Dana, 1849, pl. 12: fig. 12.

macilenta Lindley and Hutton. Pennsylvanian. 41015–16. Belleville, Missouri. White, 1893a, pp. 55, 56, pl. 1: figs. 4, 4a.

- cf. *S. microcarpa* Lesquereux. Pennsylvanian (Weber). 39154. Evans Peak, Colorado. Read, 1934, p. 85, pl. 17: figs. 6, 7.
- mississippiana* White. Mississippian (Wedington). 39492–500. Winslow quadrangle, Arkansas. White, 1936b, p. 22, pl. 4: figs. 4, 5, 11, 13–15, 17, 18, 20–23, 30, 36, 39.
- cf. *S. mississippiana* White. Mississippian (Stanley). 39372. De Queen quadrangle, Arkansas. White, 1936c, p. 63, pl. 11: figs. 17, 18.
- missouriensis* White. Pennsylvanian (Cherokee). 5663–64. Henry County, Missouri. White, 1899a, p. 43, pl. 14: figs. 1, 2.
- mixta* Schimper. Pennsylvanian (Cherokee). 5687, 5692, 5712–14. Henry County, Missouri. White, 1899a, p. 35, pl. 11: fig. 3; pl. 12: figs. 1, 2; pl. 13: figs. 4, 5.
- obovata* Lindley and Hutton. Pennsylvanian. 14390. Washington County, Arkansas. Lesquereux, 1884, pp. 769–770, pl. 103: fig. 6.
- cf. *S. obtusiloba* Brongniart. Mississippian (Wedington). 39501. Winslow quadrangle, Arkansas. White, 1936b, p. 23, pl. 4: fig. 12.
- ophioglossoides* (Lesquereux) White. Pennsylvanian (Cherokee). 5698. Henry County, Missouri. White, 1899a, p. 60, pl. 20: figs. 3, 4.
- parasica* Gothan. Mississippian. 41007. Paracas Peninsula, Peru. Read, 1938a, p. 399, fig. 2.
- patentissima* (Ettinghausen) Schimper. Pennsylvanian (Pottsville). 40965. ?Lincoln colliery near Tremont, Pennsylvania. White, 1900, p. 880, pl. 188: fig. 1.
- pinnatifida* (Lesquereux) White. Pennsylvanian (Cherokee). 5803, 5807, 14304. Henry County, Missouri. White, 1899a, p. 45, pl. 18: figs. 3, 4; pl. 19: fig. 1.
- plicata* Lesquereux. Pennsylvanian (Allegheny). 14663–64. Mazon Creek, Illinois. Lesquereux, 1884, p. 763, pl. 111: fig. 28.
- royi* Lesquereux. Pennsylvanian. 19851–54. Rockwood, Tennessee, and Washington County, Arkansas. Lesquereux, 1884, p. 768, pl. 104: figs. 7–10.
- cf. *S. schimperiana* Goepfert. Mississippian (Wedington). 39502. Winslow quadrangle, Arkansas. White, 1936b, p. 24, pl. 4: figs. 7, 8.
- solida* Lesquereux. Pennsylvanian (Allegheny). 14213–14. Mazon Creek, Illinois. Lesquereux, 1884, p. 769, pl. 101: fig. 3.
- suspecta* White. Pennsylvanian (Cherokee). 5649–50, 5652. Henry County, Missouri. White, 1899a, p. 51, pl. 35: figs. 1–3.
- taffi* White. Pennsylvanian (McAlester). 6429–30, 6742. McAlester, Oklahoma. White, 1899b, p. 485, pl. 67: fig. 7; pl. 68: figs. 1, 19.
- tracyana* Lesquereux. Pennsylvanian (Pottsville). 14132. Tracy, Tennessee. Lesquereux, 1884, p. 766, pl. 101: fig. 2.
- tridactylites* Brongniart. Pennsylvanian (Cherokee). 14304. Henry County, Missouri. Lesquereux, 1880, p. 284, pl. 55: fig. 9.
- van ingeni* White. Pennsylvanian (Cherokee). 5616. Henry County, Missouri. White, 1899a, p. 47, pl. 13: fig. 3.
- wardiana* White. Pennsylvanian (Cherokee). 5615, 5617. Henry County, Missouri. White, 1899a, p. 39, pl. 11: figs. 1, 2.
- species. Mississippian (Stanley). 39370–71. De Queen quadrangle, Arkansas. White, 1936c, p. 64, pl. 10: figs. 1, 2, 4, 5.
- species. Permian (Tubarao Series). 40617. Parana, Brazil. Read, 1941, p. 73, pl. 3: fig. 7.
- species. Early Permian. 31936. Santa Catharina, Brazil. White, 1908, p. 477, pl. 6: fig. 2.
- species. Pennsylvanian (Cherokee). 5654, 5815. Henry County, Missouri. White, 1899a, p. 66, pl. 35: fig. 6; pl. 45: fig. 2.
- species. Pennsylvanian. 41018. Belleville, Missouri. White, 1893a, pp. 59–60, pl. 1: fig. 3.

Sphenothallus

latifolius Hall. Ordovician. 41118. Schoharie County, New York. Hall, 1847, p. 262, pl. 68: fig. 2d.

Spirophyton

cauda-galli (Vanuxem) Hall. Devonian. 41132. New York. Hall, 1863, p. 79, fig. 1.

Sporocystis

planus Lesquereux. Pennsylvanian (Pottsville). 25196–99. Pittston, Pennsylvania. Lesquereux, 1880, p. 458, pl. 69: fig. 15.

species. Pennsylvanian (Allegheny). 26052–53. Cannelton, Pennsylvania. Lesquereux, 1880, p. 458, pl. 69: figs. 11, 12.

Steloxylon

- irvingense* Read and Campbell. Devonian. 41270. Irving, Kentucky. Read and Campbell, 1939, p. 445, pl. 1: fig. 1.
- santae-crucis* Read and Campbell. Devonian. 41271. Boston, Kentucky. Read and Campbell, 1939, p. 446, pl. 1: figs. 2, 4, 5.

Stemmatopteris

- anceps* Lesquereux. Pennsylvanian (Allegheny). 17139–40. Cannelton, Pennsylvania. Lesquereux, 1884, p. 838.
- angustata* Lesquereux. Pennsylvanian (Allegheny). 17078. Cannelton, Pennsylvania. Lesquereux, 1880, p. 339, pl. 59: fig. 5.
- cyclostigma* Lesquereux. Pennsylvanian ("Anthracite Series"). 11050, 17088–89. Olyphant, Pennsylvania. Lesquereux, 1880, p. 341.
- emarginata* Lesquereux. Pennsylvanian (Allegheny). 17142. Cannelton, Pennsylvania. Lesquereux, 1880, p. 337.
- hirsuta* Lesquereux. Pennsylvanian. 17070. Olyphant, Pennsylvania. Lesquereux, 1880, p. 337.
- microstigma* Lesquereux. Pennsylvanian (Allegheny). 17134–37. Cannelton, Pennsylvania. Lesquereux, 1884, p. 838.
- mimica* Lesquereux. Pennsylvanian (Allegheny). 17141. Cannelton, Pennsylvania. Lesquereux, 1880, p. 341, pl. 59: fig. 4.
- polita* Lesquereux. Pennsylvanian (Allegheny). 17096. Cannelton, Pennsylvania. Lesquereux, 1880, p. 342, pl. 59: fig. 6.
- squamosa* Lesquereux. Pennsylvanian (Allegheny). 17073. Cannelton, Pennsylvania. Lesquereux, 1880, p. 339, pl. 59: fig. 2.

Stenokoleos

- setchelli* (Read) Hoskins and Cross. Mississippian. 41272–74. New Albany, Indiana. Hoskins and Cross, 1951, p. 702, figs. 21, 25, 26.
- simplex* (Read) Beck. Devonian. 41268. New Albany, Indiana. Beck, 1960, figs. 9, 17c.

Stenomyelon

- muratum* Read. Devonian. 41249. Junction City, Kentucky. Read, 1937, p. 84, pl. 20: figs. 1, 3;

pl. 21: fig. 2; pl. 22: figs. 1–3; pl. 23: figs. 4, 5; pl. 26: figs. 1, 3, 6.

Stigmaria

- arkansana* White. Mississippian (Wedington). 39538–39. Winslow quadrangle, Arkansas. White, 1936b, p. 32, pl. 5: fig. 6; pl. 9: fig. 8.
- russelli* Lesquereux. Pennsylvanian (Pottsville). 41230. Gadsden, Alabama. Lesquereux, 1888, p. 87, pl. 29: fig. 11.
- wedingtonensis* White. Mississippian (Wedington). 39540–41. Winslow quadrangle, Arkansas. White, 1936b, p. 32, pl. 5: fig. 7; pl. 9: fig. 3.
- cf. *sigillaria camptotaenia* Wood. Pennsylvanian (Cherokee). 6067. Henry County, Missouri. White, 1899a, p. 246, pl. 70: fig. 5.
- species. Mississippian (Stanley). 39451. De Queen quadrangle, Arkansas. White, 1936c, p. 58, pl. 14: fig. 18.

Supaia

- anomala* White. Permian (Hermit). 38035. Grand Canyon, Arizona. White, 1929, p. 71, pl. 20: figs. 1–3; pl. 21: figs. 1–4; pl. 22; pl. 24: fig. 4.
- breviloba* White. Permian (Hermit). 38037. Grand Canyon, Arizona. White, 1929, p. 74, pl. 33: fig. 1.
- compacta* White. Permian (Hermit). 38034. Grand Canyon, Arizona. White, 1929, p. 69, pl. 15: fig. 4; pl. 16: fig. 4; pl. 26: fig. 3; pl. 32: fig. 1; pl. 35: fig. 3.—Read and Mamay, 1964, pl. 14: fig. 2.
- linearifolia* White. Permian (Hermit). 38036. Grand Canyon, Arizona. White, 1929, p. 72, fig. 1, pl. 23: fig. 1; pl. 36: fig. 4.
- merriami* White. Permian (Hermit). 38033. Grand Canyon, Arizona. White, 1929, p. 67, pl. 19.—Read and Mamay, 1964, pl. 15: fig. 1.
- rigida* White. Permian (Hermit). 38031. Grand Canyon, Arizona. White, 1929, p. 64, pl. 17: figs. 1–3.
- sturdevanti* White. Permian (Hermit). 38032. Grand Canyon, Arizona. White, 1929, p. 65, pl. 18: figs. 1, 2.
- sturdevanti* White. Permian (Hermit). 38040. Grand Canyon, Arizona. Read and Mamay, 1964, pl. 14: fig. 1.
- subgoepperti* White. Permian (Hermit). 38038. Grand Canyon, Arizona. White, 1929, p. 75, pl. 25.

- thinnfeldioides* White. Permian (Hermit). 38030. Grand Canyon, Arizona. White, 1929, p. 62, pl. 14; pl. 15: figs. 2, 3, 5; pl. 16: figs. 2, 3.
species. Permian (Hermit). 38039. Grand Canyon, Arizona. White, 1929, p. 77, pl. 34.
species indeterminate. Permian (Hermit). 38040. Grand Canyon, Arizona. White, 1929, p. 78, pl. 32: fig. 2; pl. 33: figs. 2, 3.
species. Permian (Hermit). 38041. Grand Canyon, Arizona. White, 1929, p. 78, pl. 24: fig. 1.

Syringodendron

- gracile* Dawson. Early Mississippian. 41119. Akron, Ohio. Dawson, 1862, p. 308, pl. 13: fig. 14.

Taeniocrada

- chondriiformis* (Penhallow) White. Devonian (Chemung). 5405. Lanesboro, Pennsylvania. White, 1901, p. 604.
lesquereuxi White. Devonian (Chemung). 5409. Lanesboro, Pennsylvania. White, 1901, p. 604.
palmata White. Devonian. 36457. Gleason's Cove, Maine. Smith and White, 1905, p. 37, pl. 2: fig. 10.

Taeniophyllum

- brevifolium* Lesquereux. Pennsylvanian (Allegheny). 19276–77. Cannelton, Pennsylvania. Lesquereux, 1884, p. 788, pl. 108: fig. 3.
contextum Lesquereux. Pennsylvanian (Allegheny). 19270. Cannelton, Pennsylvania. Lesquereux, 1878, p. 332; 1880, p. 465, pl. 82: fig. 2.
decurrens Lesquereux. Pennsylvanian (Allegheny). 19256. Cannelton, Pennsylvania. Lesquereux, 1878, p. 331; 1880, p. 464, pl. 81: fig. 1.
deflexum Lesquereux. Pennsylvanian (Allegheny). 19252. Cannelton, Pennsylvania. Lesquereux, 1878, p. 331; 1880, p. 465, pl. 83: fig. 4.
latifolium White. Pennsylvanian (Cherokee). 6068, 6070. Henry County, Missouri. White, 1899a, p. 247, pl. 63: fig. 4; pl. 71: fig. 1.

Taeniophyllum?

- species. Pennsylvanian. 2205. Warrior Creek, Alabama. Lesquereux, 1887, p. 29.

Taeniopteris

- angelica* White. Permian (Hermit). 38048. Grand Canyon, Arizona. White, 1929, p. 93, pl. 31: fig. 3; pl. 36: fig. 2; pl. 38: fig. 2.
coriacea Goeppert. Permian (Hermit). 38049. Grand Canyon, Arizona. White, 1929, p. 94, pl. 36: fig. 1; pl. 37: fig. 3; pl. 38: fig. 3.
coriacea Goeppert. Permian. 7744. Dickinson County, Kansas. Sellards, 1901, p. 2, pl. 4: fig. 1.
coriacea Goeppert (counterpart). Permian. 8092–93. Dickinson County, Kansas. Sellards, 1901, p. 2, pl. 2: figs. 1, 2.
cf. *eckhardti* Kurtze. Permian. 38046–47. Grand Canyon, Arizona. White, 1929, p. 92, pl. 37: figs. 1, 2; pl. 38: figs. 1, 4.
missouriensis White. Pennsylvanian (Cherokee). 5556–58, 5560. Henry County, Missouri. White, 1893b, pp. 119–131, pl. 1: figs. 1–6; 1899a, p. 140, pl. 40: figs. 1–6.
newberriana Fontaine and White (counterpart). Permian (Wellington). 8087. 3 miles south of Banner City, Kansas. Sellards, 1901, p. 4, pl. 4: fig. 4.—Read and Mamay, 1964, pl. 16: fig. 1.
truncata Lesquereux. Pennsylvanian. 11699. Pittston, Pennsylvania. Lesquereux, 1884, p. 743, pl. 94: fig. 8.
species. Pennsylvanian (Pottsville). 40893. Clay City quadrangle, Indiana. Jackson, 1917, pl. 9: fig. 3.

Taonurus

- colletti* Lesquereux. Carboniferous. 25056. Missouri. Lesquereux, 1880, p. 7, pl. A: fig. 7.

Taxites?

- species. Permian (Hermit). 38059. Grand Canyon, Arizona. White, 1929, p. 109, pl. 49: fig. 6.

Telangium?

- species. Mississippian (Wedington). 39503. Winslow quadrangle, Arkansas. White, 1936b, p. 24, pl. 5: fig. 2.

?*Tingia*

- species. Permian (Belle Plains). 41773. Emily Irish Grant, Baylor County, Texas. Read and Mamay, 1964, pl. 18: fig. 3.

Titanophyllum

brittsi White. Pennsylvanian (Cherokee). 6168. Henry County, Missouri. White, 1899a, p. 271.

Trichopitys

whitei Read. Pennsylvanian (Weber). 39156. Evans Peak, Colorado. Read, 1933, pp. 461–463, fig. 1; 1934, p. 89, pl. 18: figs. 4, 5.

Trigonocarpus

adamsi Lesquereux. Pennsylvanian. 26727–33. Stark County, Illinois, and Cannelton, Pennsylvania. Lesquereux, 1884, p. 820, pl. 110: figs. 51, 52, 54–57.

ampullaeformis Lesquereux. Pennsylvanian. 26536–38. Washington County, Arkansas, and Tracy, Tennessee. Lesquereux, 1884, p. 823, pl. 109: figs. 18, 19, 21.

ampullaeforme spectabile White. Pennsylvanian (Pottsville). 40970. Lincoln colliery, Pennsylvania. White, 1900, p. 909, pl. 191: fig. 8.

dawesi Lindley and Hutton. Pennsylvanian (Allegheny). 26137. Cannelton, Pennsylvania. Lesquereux, 1880, p. 586, pl. 85: fig. 25.

dawesi Lindley and Hutton. Pennsylvanian. 26138–40. Stark County, Illinois. Lesquereux, 1884, p. 821, pl. 111: figs. 4–6.

giffordi Lesquereux. Pennsylvanian. 26755. Alta, Peoria County, Illinois. Lesquereux, 1880, pp. 592–593, pl. 85: figs. 5, 6.

gillhami White. Mississippian (Stanley). 39418–22. De Queen quadrangle, Arkansas. White, 1936c, p. 66, pl. 12: fig. 12; pl. 14: figs. 5–8.

grandis Lesquereux. Pennsylvanian. 26018–20. Stark County, Illinois, and Cannelton, Pennsylvania. Lesquereux, 1884, p. 819, pl. 111: figs. 1–3.

helenae White. Pennsylvanian (Pottsville). 26268. Helena mines, Alabama. White, 1900, p. 909.

hexacostatum Jackson. Pennsylvanian (Pottsville?). 40874. Bloomington quadrangle, Indiana. Jackson, 1917, p. 420, pl. 6: fig. 4.

hexagonale Jackson. Pennsylvanian (Pottsville?). 40875. Cincinnati, Bloomington quadrangle, Indiana. Jackson, 1917, p. 420, pl. 6: fig. 5.

kansasianus Lesquereux. Pennsylvanian (Missourian). 26999–27002. Osage City, Kansas. Lesquereux, 1884, p. 822.

perpusillus Lesquereux. Pennsylvanian. 26982–83, 26985. Stark County, Illinois. Lesquereux, 1884, p. 820, pl. 110: figs. 58–60.

schultziianus Goeppert and Berger. Pennsylvanian. 26006–08. Stark County, Illinois. Lesquereux, 1884, p. 819, pl. 110: figs. 63–65.

cf. *schultziianum* Goeppert and Berger. Pennsylvanian (Pottsville). 40876. Bloomington quadrangle, Indiana. Jackson, 1917, p. 420, pl. 6: fig. 7.

starkianus Lesquereux. Pennsylvanian. 26865–71. Stark County, Illinois. Lesquereux, 1884, p. 822, pl. 111: figs. 7–13.

vallisjohanni White. Mississippian (Stanley and Jackfork). 39423–25. De Queen quadrangle, Arkansas, and Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 66, pl. 14: figs. 2–4.

Triletes

auritus var. *grandis* Zerndt. Pennsylvanian (McLeansboro). 41191–93. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 15–17.

glabratus Zerndt. Pennsylvanian (McLeansboro). 41179–80. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 3, 4.

cf. *T. rugosus* (Loose) Schopf. Pennsylvanian (Secor coal). 41194–95. McAlester, Oklahoma, Mamay and Yochelson, 1962, pl. 33: figs. 18, 19.

cf. *T. superbus* Bartlett. Pennsylvanian (Cherokee). 41181–86, 41203–06. West Mineral, Kansas. Mamay and Yochelson, 1962, pl. 33, figs. 5–10, 27–30.

triangulatus Zerndt. Pennsylvanian. 41197–98. Oskaloosa, Iowa. Mamay and Yochelson, 1962, pl. 33: figs. 21, 22.

Triphyllopteris

alleghanensis (Meek) Read. Mississippian (Pocono). 40689. Lewis tunnel, Virginia. Read, 1955, p. 25, pl. 9: figs. 3–5.

latilobata Read. Mississippian (Pocono). 40693–95. ?Virginia. Read, 1955, p. 24, pl. 8: figs. 1–3; pl. 10: fig. 5.

lescuriana (Meek) Lesquereux. Mississippian (Pocono). 1447. Lewis tunnel, Virginia. Lesquereux, 1880, p. 297, pl. 50: fig. 6.—Butts, 1941, pl. 133: fig. 1.

lescuriana (Meek) Lesquereux. Mississippian (Pocono). 1467, 2190, 19956, 40644, 40704. Various Virginia localities. Read, 1955, p. 24, pl. 5: figs. 3, 4; pl. 6: figs. 1–3; pl. 11: fig. 3.

lescuriana (Meek) Lesquereux. Mississippian (Price). 19929. 1½ miles north of Vicker, Virginia. Read and Mamay, 1964, pl. 1: fig. 3.

rarinervis Read. Mississippian (Price). 19934, 19974, 40641. Montgomery County, Virginia. Read and Mamay, 1964, pl. 2: fig. 1.—Read, 1955, p. 25, pl. 7: figs. 1, 2; pl. 12: figs. 3, 4; pl. 13: fig. 3.

Trochiliscus

devonica (Wieland) Peck. Devonian. 39151. Falls of the Ohio, Louisville, Kentucky. Peck, 1934, p. 108, pl. 12: figs. 16, 19–20.

greenei (Ulrich) Brown. Devonian. 42079. Falls of the Ohio, Louisville, Kentucky. Brown, 1946, p. 344.

lemoni (Knowlton) Karpinsky. Devonian. 3664. Falls of the Ohio, Louisville, Kentucky. Peck, 1934, p. 105, pl. 9: figs. 6a, 6c.

Trochophyllum

clavatum Lesquereux. Pennsylvanian. 16643. Pittsburgh, Pennsylvania. Lesquereux, 1880, pl. 3: fig. 21.

Tubicaulis

scandens Mamay. Pennsylvanian (McLeansboro). 41291. Berryville, Illinois. Mamay, 1952, unfigured sections of holotype.

Tyliosperma

orbiculatum Mamay. Pennsylvanian (Des Moines). 41290. West Mineral, Kansas. Mamay, 1954c, figs. 2a–2l; pl. 22: figs. 1–9; pl. 23: figs. 1–8.

Ullmannia

frumentaria (Schlotheim) Goepfert. Permian (Hermit). 38055. Grand Canyon, Arizona. White, 1929, p. 102, pl. 46: figs. 1–6; pl. 48: fig. 1; pl. 51: fig. 7.

Ulodendron

ellipticum Presl. Pennsylvanian (Allegheny). 15823. Morris, Illinois. Lesquereux, 1870, p. 436, pl. 23: fig. 1; 1880, p. 404, pl. 65: fig. 2.

Undetermined roots. Pennsylvanian (Spotted Ridge). 40731–32. Crook County, Oregon. Mamay and Read, 1956, p. 221, pl. 37: figs. 1, 2.

Volkmannia

crassa Lesquereux. Pennsylvanian (Pottsville). 18091. Dade County, Georgia. Lesquereux, 1884, pp. 719–720, pl. 90: fig. 1.

fertilis Lesquereux. Pennsylvanian. 17772–75. Archbald, Pennsylvania, and Stark County, Illinois. Lesquereux, 1884, p. 720, pl. 90: fig. 4.

praelonga Lesquereux. Pennsylvanian (“Anthracite Series”). 18425. Pittston, Pennsylvania. Lesquereux, 1884, p. 720, pl. 90: fig. 2.

Voltzia

dentiloba White. Permian (Hermit). 38056. Grand Canyon, Arizona. White, 1929, p. 105, pl. 51: fig. 5. species. Permian (Hermit). 38057. Grand Canyon, Arizona. White, 1929, p. 106, pl. 50: fig. 5.

Voltzia?

species. Early Permian. 32024, 32026–27. Santa Catharina, Brazil. White, 1908, p. 569, pl. 8: figs. 11–13.

Walchia

dawsoni White. Permian (Hermit). 38052. Grand Canyon, Arizona. White, 1929, p. 99, pl. 42: fig. 6; pl. 44: figs. 1, 4.

gracillima White. Permian (Hermit). 38053. Grand Canyon, Arizona. White, 1929, p. 100, pl. 44: figs. 2, 3, 5, 6.

hypnoides Brongniart. Permian (Hermit). 38054. Grand Canyon, Arizona. White, 1929, p. 102, pl. 49: fig. 5.

piniformis (Schlotheim) Sternberg. Permian (Hermit). 38051. Grand Canyon, Arizona. White, 1929, p. 96, pl. 41: figs. 1–3, 5; pl. 42: figs. 1–5.

piniformis (Schlotheim) Sternberg. Permian (Abo). 41222. Spanish Queen mine, 6 miles southwest of Jemez, New Mexico. Read and Mamay, 1964, pl. 13: fig. 2.

cf. *Walchia*

stricta Florin. Early Permian. 41158. Cotton County, Oklahoma. Florin, 1939, pls. 135/136: figs. 13, 14.

Walchiostrobus

species. Early Permian. 41157. La Cuava, New Mexico. Florin, 1939, pls. 95/96: fig. 18.

Walkomiella

australis (Feistmantel) Florin. Early Permian. 3729. Bowenfel, Australia. Florin, 1940, fig. 3, pl. 1: figs. 1-8; pl. 2: figs. 2-8; pl. 3: figs. 1-3.

Wardia

suspecta White. Mississippian (Stanley). 39399-400. DeQueen quadrangle, Arkansas. White, 1936c, p. 64, pl. 11: figs. 1-3.

Whittleseyia

campbelli White. Pennsylvanian (Pottsville). 40976, 40983-84. Pottsville Gap and Lincoln colliery near Tremont, Pennsylvania. White, 1900, p. 905, pl. 190: figs. 9-11.

elegans Newberry. Pennsylvanian. 41067. Talmadge, Ohio. Read, 1946, p. 20, pl. 2: fig. 10.

microphylla Lesquereux. Pennsylvanian. 18880-82, 18888. Washington County, Arkansas. Lesquereux, 1884, p. 843.—Lesley, 1890, p. 1256.

undulata Lesquereux. Pennsylvanian (Late Pottsville). 42181. Pratt mines, Alabama, White, 1901b, p. 107, pl. 7: fig. 6.

Yakia

heterophylla White. Permian (Hermit). 38044. Grand Canyon, Arizona. White, 1929, p. 86, pl. 39: figs. 1-7.

Zeilleria

oliverirai Read. Permian (Tubarao Series). 40618. Parana, Brazil. Read, 1941, p. 71, pl. 1: figs. 1-5.

species. Pennsylvanian (Pottsville). 40839. Bloomington quadrangle, Indiana. Jackson, 1917, p. 414, pl. 1: fig. 5.

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