

No. 24. List of the species of Calamites with
enumeration of the figures as far as they are
doubtful or indeterminable or belong
to other species

BY

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This list is the first result of my researches in literature and in different museums. Dr. KIDSTON looked over the many photographs and notes made for this purpose and in writing the text of our Monograph of the Calamites of Western Europe we found the occasion to controlize the conclusions. The comparison with the numerous beautiful specimens in Dr. KIDSTON's collection and the many conferences we had on the critical figures and specimens lead to the result given in this list. I am glad to have in the publication of this list another opportunity to offer my sincere thanks to Dr. KIDSTON for his collaboration and for so many kind helps.

This list contains the names used for species of the genus *Calamites* sensu ampliss. (incl. *Arthropitys*, *Calamodendron*, etc.). From species not occurring in palaeozoic deposits, it brings the names only and no further critical remarks.

Published figures of species, which cannot be regarded as true species and such figures, which are wrongly named (according to my present opinion) are mentioned here with a short quotation of the literature and of the species to which the figure must be put as a synonym.

The list also shows that a large number of published figures must be regarded as doubtful or indeterminable.

It does not contain those figures of recognized species which have been published under the name which I accept as the right one. Full lists of all such figures can be found in: KIDSTON and JONG-

MANS, Monograph of the Calamites of Western Europe (Mededeel. Rijks Opsporing van Delfstoffen, N^o. 7, 1915) and especially in: Fossilium Catalogus, II, Pars 5, JONGMANS, Calamites, 1915.

- C. abnormus* Achepohl, Niederrh. Westph. Steink., Lief. III, 1883, p. 134, t. 40, f. 11, 12. **Indeterminable.**
- C. acuticostatus* Weiss, 1876, Steink. Calam., I, Pl. 19, fig. 2; JONGMANS, Anleitung, I, 1911, fig. 152, 152a. **C. undulatus Sternb.**
- C. aequalis* Sternberg, Versuch, II, 5, 6, 1833, p. 49. **C. suckowi Bgt.**
- C. affinis* Gutbier, Zwickau, 1835, p. 27, Pl. 2, fig. 11, 11a. **Indeterminable.**
- C. alternans* Germar et Kaulfuss, Act. Ac. Leop. Nat. Cur., XV, 2, 1828, p. 221, Pl. 65, fig. 1. **Indeterminable.**
- C. alternans* Germar, in Isis, 1838, Pl. 3, fig. 1. **? C. undulatus Bgt.**
- C. alternans* Stur, 1881, Sitz. Ber. Akad. Wiss., Wien, LXXXIII, Pl. 1, fig. 2. **C. schützeiformis typicus K. et J.**
- C. alternans* Stur, Abh. k. k. Geol. Reichsanst., Wien, XI, 2, 1887, p. 47, Pl. 17, fig. 1. **? Asterophyllites equisetiformis Schl.**
- C. ambiguus* Eichwald, Geogn. Palaeont. Bemerk. über Halbinsel Mangischlak und Aleutischen Inseln, St. Petersburg, 1871, p. 114, Pl. 4, fig. 9. **Indeterminable.**
- C. (Aspasia) amplexens* Stefani, Flore carb. e perm. della Toscana, 1901, p. 75, Pl. 11, fig. 1, 2, 3, 4. **Indeterminable.**
- C. anceps* Grand Eury, Loire, 1877, p. 23, Pl. 3, fig. 4. **Indeterminable.**
- C. anomalis* Achepohl, Niederrh. Westph. Steink., Lief. III, 1883, p. 134, Pl. 40, fig. 13. **Indeterminable.**
- C. (Calamodendron) antiquus* Dawson, Geol. Survey Canada, 1871, p. 24, Pl. 3, fig. 39. **Indeterminable.**
- C. (Equisetum) antiquus* Bureau, Compt. Rend. Ac. des Sc., Paris, C, p. 73. **No figure. ? Calamariaceae.**
- C. approximatus* Schlotheim, Petrefactenkunde, 1820, p. 399. **Indeterminable.**
- C. approximatus* Artis, 1825, Antedil. Phytol., Pl. 4. **C. schützeiformis typicus K. et J.**
- C. approximatus* Bgt., Histoire, I, 1828, Pl. 15, fig. 7, 8 (copied from ARTIS). **C. schützeiformis typicus K. et J.**

- C. approximatus* Bgt., Histoire, I, 1828, Pl. 24, fig. 1.
C. undulatus Sternb.
- C. approximatus* Bgt., Histoire, I, 1828, Pl. 24, fig. 2—4.
C. schützeiformis waldenburgensis K.
- C. approximatus* Bgt., Histoire, I, 1828, Pl. 24, fig. 5.
Indeterminable.
- C. approximatus* L. et H., Fossil Flora, I, 1833, Pl. 77.
C. schützeiformis typicus K. et J.
- C. approximatus* Gutbier, Zwickau, 1835, p. 23, Pl. 2, fig. 3, 3a.
Indeterminable.
- C. approximatus* L. et H., Fossil Flora, III, 1837, Pl. 216.
C. multiramis Weiss.
- C. approximatus* Petzholdt, Ueber Calamiten und Steinkohlenbildung, 1841, p. 66, Pl. 6, fig. 7, copied from BRONGNIART, Pl. 24, fig. 2 (pars).
C. schützeiformis waldenburgensis K.
- C. approximatus* Mantell, Medals of creation, 1844, p. 410, fig. 8, Nº. 3.
Indeterminable.
- C. approximatus* Sauveur, Belgique, 1848, Pl. 2.
? C. undulatus.
- C. approximatus* Mantell, Pictorial Atlas, 1850, Pl. 16, copied from ARTIS.
C. schützeiformis typicus K. et J.
- C. approximatus* Geinitz, Sachsen, 1855, Pl. 11, fig. 1; Pl. 11, fig. 4.
Indeterminable.
- C. approximatus* Geinitz, Sachsen, 1855, Pl. 11, fig. 2; Pl. 12, fig. 1, 2.
C. multiramis Weiss
- C. approximatus* Geinitz, Sachsen, 1855, Pl. 11, fig. 3.
C. undulatus Sternb.
- C. approximatus* Geinitz, Sachsen, 1855, Pl. 11, fig. 5; Pl. 12, fig. 3.
C. schützeiformis waldenburgensis K.
- C. approximatus* von Roehl, Palaeontogr., XVIII, 1868, Pl. 2, fig. 7.
Indeterminable.
- C. approximatus* Schimper, Traité, I, 1869, Pl. 18, fig. 1.
C. cruciatus Sternb.
- C. approximatus* Schimper, Traité, I, 1869, Pl. 18, fig. 2, 3, copied from ARTIS.
C. schützeiformis typicus K. et J.
- C. approximatus* Feistmantel, Abh. k. Böhm. Ges. d. Wiss., (6), V, 1872, Pl. 3, copied from STERNBERG's *Volkmania arborescens*.
C. arborescens Sternb. (non Autt).
- C. approximatus* Feistmantel, Böhmen, 1874, Pl. 6, fig. 2; Pl. 7, fig. 1, 2.
C. suckowi Bgt.
- C. approximatus* Feistmantel, Abh. k. Böhm. Ges. d. Wiss., (6), VI,

- 1874, Pl. 6, fig. 3, copied from STERNBERG's *Volkmania arborescens*.
C. arborescens Sternb. (non Autt.)
- C. approximatus* Roemer, Lethaea palaeoz., 1876, Pl. 50, fig. 3.
C. schützeiformis waldenburgensis K.
- C. approximatus* Heer, Flora foss. Helv., 1876, Pl. 20, fig. 5.
Indeterminable.
- C. approximatus* Stur, Culmfl., II, 1877, Pl. 4, fig. 8.
C. approximatiformis Stur.
- C. approximatus* Lesq., Coalfl., 1879—80, Pl. 1, fig. 5.
Indeterminable.
- C. cf. approximatus* Stur, Morphol. Calam., 1881, fig. 13, 14 and Calam. Schatzl. Sch., 1887, fig. 16, 17.
C. schützeiformis intermedius K. et J.
- C. approximatus* Achepohl, Niederrh. Westf. Steink., Erg. Bl. II, 1883, fig. 11.
Indeterminable.
- C. approximatus* Lesquereux, 13th Rept. Geol. Survey Indiana, 1884, Pl. 5, fig. 6.
C. schützeiformis typicus K. et J.
- C. approximatus* Weiss, Steink. Cal., II, 1884, Pl. 25, fig. 1.
C. schützeiformis waldenburgensis K.
- C. approximatus* Stur, Calam. Schatzl. Sch., 1887, Pl. 8, fig. 2, 3; Pl. 12, fig. 7.
Indeterminable.
- C. approximatus* Stur, Calam. Schatzl. Sch., 1887, Pl. 5, fig. 3; Pl. 8, fig. 4.
C. schützeiformis waldenburgensis K.
- C. approximatus* Stur, Calam. Schatzl. Sch., 1887, Pl. 5, fig. 2.
C. schützeiformis intermedius K. et J.
- C. cf. approximatus* Toula, Die Steink., 1888, Pl. 5, fig. 6 (Copied from STUR, 1881, 1887).
C. schützeiformis intermedius K. et J.
- C. typ. approximatus* Potonié, Lehrbuch, 1897, p. 191, f. 187 (Copied from STUR, 1881, 1887).
C. schützeiformis intermedius K. et J.
- C. approximatus* Seward, Fossil Plants, I, 1898, p. 370, fig. 100 (Copied from KIDSTON).
C. schützeiformis waldenburgensis K.
- C. approximatus* Hofmann und Ryba, Leitpflanzen, 1899, Pl. 1, fig. 5.
C. schützeiformis waldenburgensis K.
- C. approximatus* Arber, Q. J. G. S., LIX, 1903, Pl. 1, fig. 3; Fossil Plants, 1909, Pl. on p. 53.
C. schützeiformis waldenburgensis K.
- C. approximatus* Renier, Méthodes, 1908, p. 41, fig. 15.
C. schützeiformis intermedius K. et J.
- C. approximatus* Arber, Proc. Yorksh. Geol. Soc., VII, 1910, p. 144, Pl. 13, fig. 3.
C. schützeiformis intermedius K. et J.
- C. (Calamodendron) approximatus* Dawson, Q. J. G. S., XXII, 1866,

- Pl. 7, fig. 31; Acad. Geology, 1868, fig. 162; Q. J. G. S., XXVII, 1871, Pl. 9, fig. 17. **Indeterminable.**
- C. (Calamodendron) approximatus* Miller, North. Am. Geol. and Pal., 1889, fig. 21. **Indeterminable.**
- C. (Calamitina) approximatus* Kidston, T. R. S. Edinb., XXXVII, 1893, Pl. 2, fig. 5, 6; Trans. Yorksh. Geol. and Pol. Soc., XIV, 1901, Pl. 35, fig. 2.
- C. schützeiformis waldenburgensis K.**
- C. (Arthropitys) approximatus* Renault, Commentry, 1888—1890, Pl. 52, fig. 6, (7). **C. schützeiformis waldenburgensis K.**
- C. (Arthropitys) approximatus* Renault, Commentry, 1888—1890, Pl. 53, fig. 1. **C. schützeiformis intermedius K. et J.**
- C. (Arthropitys) approximatus* Renault, Notice s. l. Calam., II, 1896, Pl. 1, fig. 1, 2, 3. (Habitus of the specimen of STUR, 1881, 1887; 4—9 Anatomy). **C. schützeiformis intermedius K. et J.**
- C. (Arthropitys) approximatus* Renault, Notice s. l. Calam., II, 1896, Pl. 1, fig. 10. **C. schützeiformis waldenburgensis K.**
- C. approximatus* var. *accrescens* Weiss, Steink. Calam., II, 1884, p. 85. **C. schützeiformis typicus K. et J.**
- C. approximatus* var. *angusta* Eichw., Leth. ross., I, 1860, p. 172. **Doubtful.**
- C. approximatus* var. *subaequalis* Weiss, Steink. Calam., II, 1884, p. 82. **C. schützeiformis waldenburgensis K.**
- C. approximatus* var. *vulgaris* Weiss, Steink. Calam., II, 1884, Pl. 25, fig. 1. **C. schützeiformis waldenburgensis K.**
- C. approximatus* var. Eichwald, Leth. ross., I, 1860, Pl. 12, fig. 7. **Indeterminable.**
- C. arborescens** Sternb. (*Volkm. arborescens*) non Autt.
- C. arborescens* Weiss, Steink. Calam., II, 1884, pars, not the plates. **C. distachyus** Sternb.
- C. arborescens* Weiss, Steink. Calam., II, 1884, Pl. 14; Pl. 15; Pl. 16, fig. 1, (? fig. 2); ? Pl. 21, fig. 1, 2. **C. schulzi** Stur.
- C. arborescens* Weiss, Steink. Calam., II, 1884, Pl. 2, fig. 2; Pl. 3, fig. 1; Pl. 8, fig. 3. **Indeterminable.**
- C. arenaceus* Jaeger. **Mesozoic.**
- C. arenaceus* Rogers, (*C. suckowi* var. δ Bgt.) Rept. of Assoc. of Amer geol., 1843, p. 298--301. **Indeterminable.**
- C. articulatus* Gutbier, Zwickau, 1835, Pl. 1, fig. 2, 3. **C. infractus** Gutb.
- C. articulatus* Kutorga, Beitr. z. Kenntn. der org. Reste des Kupfer-sandsteins, 1838, Pl. 5, fig. 1. **Indeterminable.**

- C. artisi* (Goeppert) Ettingsh., (*Asterophyllites artisi* Goeppert), Haidinger's Natw. Abh., IV, 1, 1851, p. 81. **Calamarian Roots.**
- C. artisi* Renault, Commentry, 1888—1890, Pl. 44, fig. 3.
Doubtful (? *C. carinatus* Sternb.).
- C. artisi* Sauveur, Belgique, 1848, Pl. 7, fig. 1, 2. ***C. suckowi* Bgt.**
- C. artisi* Sauveur, Belgique, 1848, Pl. 8, fig. 2. **? *C. carinatus* Sternb.**
- C. artisi* Sauveur, Belgique, 1848, Pl. 7, fig. 3. **? *C. carinatus* Sternb. var. B.**
- C. australis* Eichwald. **Jurassic.**
- C. beanii* Bunbury. **Jurassic.**
- C. (Astero calamites) beyrichi* Weiss, Steink. Calam., II, 1884, Pl. 26; Pl. 27, fig. 1. **Astero calamites beyrichi** Weiss.
- C. bicostatus* Wood, Proc. Acad. nat. Sci. Philad., 1860, p. 236. **Indeterminable.**
- C. binneyi* Carr., Roy. Instit. Great Britain, Weekly evening Meeting, 16 April, 1869, Pl. 2, fig. 7—11 (copied by BALFOUR, Introduction, 1872, fig. 47, No. 7—11). **Calamostachys binneyana** Carr.
- C. bistriatus* Stur, Akad. Wiss. Wien, LXXXIII, 1881, fig. 4, 5, 6, 7; id. Calam. Schatzl. Schicht., 1887, fig. 6, 7, 8, 9. **Anatomy.**
- C. bistriatus* Toula, Steinkohlen, Pl. 5, fig. 3, 4 (Copied from STUR). **Anatomy.**
- C. (Calamitea) bistriatus* Cotta, Dendrol., 1832, Pl. 15, fig. 3, 4. **Anatomy.**
- C. (Calamodendron) bistriatus* Mougeot, Essai fl. grès rouge Vosges, 1852, Pl. 5, fig. 5, 6, 7. **Anatomy.**
- C. (Arthropitys) bistriatus* Goeppert, Palaeontogr., XII, 1864—65, Pl. 32, 33. **Anatomy.**
- C. (Arthropitys) bistriatus* Schenk in ZITTEL, Handbuch, Lief. III, 1884, fig. 168—171a. **Anatomy.**
- C. (Arthropitys) bistriatus* Solms, Einleitung, 1887, fig. 40. **Anatomy.**
- C. (Arthropitys) bistriatus* Renault, Plant. foss., 1888, fig. 19. **Anatomy.**
- C. (Arthropitys) bistriatus* Renault, Commentry, 1888—1890, Pl. 52, fig. 3. ***C. undulatus* Sternb.**
- C. (Arthropitys) bistriatus* Renault, Commentry, 1888—1890, Pl. 52, fig. 5. **Indeterminable.**
- C. (Arthropitys) bistriatus* Renault, Commentry, 1888—1890, Pl. 54, fig. 3, 4; Pl. 75, fig. 7—14. **Anatomy.**
- C. (Arthropitys) bistriatus* Renault, Notice sur les Calam., I, 1895,

- Pl. 3, 4, 5, 6; Textf. A; and: Autun et Epinac, II, 1896, Pl. 44, 45, 46, 47; Textfig. 25. **Anatomy.**
- C. (Arthropitys) bistriatus* Renault, Notice sur les Calam., III, 1898, Pl. 7, fig. 3, 4; Pl. 9, fig. 1—4; Pl. 9bis, fig. 4. **Anatomy.**
- C. (Arthropitys) bistriatus* Potonié, Lehrbuch, 1899, fig. 182, 185. **Anatomy.**
- C. (Arthropitys) bistriatus var. augustodunensis* Renault, Notice sur les Calam., I, 1895, Pl. 3, fig. 1; Pl. 5, fig. 2, 3, 4; Autun et Epinac, II, 1896, Pl. 44, fig. 1; Pl. 46, fig. 2, 3, 4. **Anatomy.**
- C. (Arthropitys) bistriatus var. borgiensis* Renault, Commeny, II, 1888—90, Pl. 54, fig. 2; Notice sur les Calam., I, 1895, Pl. 6, fig. 1—6; Autun et Epinac, II, 1896, Pl. 47, fig. 1—6; Notice sur les Calamar., III, 1898, Pl. 7, fig. 2. **Anatomy.**
- C. (Arthropitys) bistriatus var. valdajolensis* Renault, Notice sur les Calam., I, 1895, Pl. 3, fig. 2; Pl. 4, fig. 1, 2, 3; Autun et Epinac, II, 1896, Pl. 44, fig. 2; Pl. 45, fig. 1, 2, 3. **Anatomy.**
- C. cf. bistriatus* Stur, Akad. Wiss. Wien, LXXXIII, 1881, fig. 8; Calam. Schatzl. Schicht., 1887, fig. 10. **Anatomy.**
- C. bistriatus* Lesquereux, in ROGERS, Geol. of Penna, 1858, Pl. 2, fig. 1. **Indeterminable.**
- C. bisulcatus* Grand' Eury, Gard, 1890, p. 217; No figure. **Indeterminable.**
- C. bohemicus* Kidston et Jongmans nov. spec.
- C. borgiensis* Renault, Plant. foss., 1888, p. 224.
- C. (Arthropitys) bistriatus var. borgiensis Ren.**
- C. britannicus* Weiss.
- C. brittsii* D. White (*Cyclocladia brittsii* White).
- C. brongniarti* Sternb.
- C. bronni* Gutbier, Gaea von Sachsen, 1843, p. 69. No figure. **Indeterminable.**
- C. (Dictyocalamites) burri* Arber, Geolog. Magazine, (5), IX, Pl. 5, fig. 1, 3, 5. **Indeterminable.**
- C. cannaeformis* Schloth., Petrefactenk., 1820, Pl. 20, fig. 1. **Indeterminable.**
- C. cannaeformis* Bgt., Histoire, I, 1828, Pl. 21, fig. 1, 5. **Indeterminable.**
- C. cannaeformis* Bgt., Histoire, I, 1828, Pl. 21, fig. 2, 3. **C. undulatus** Sternb.
- C. cannaeformis* Bgt., Histoire, I, 1828, Pl. 21, fig. 4. **? C. suckowi** Bgt.

- C. cannaeformis* L. et H., Foss. Fl., I, 1833, Pl. 79.
? *C. undulatus* Sternb.
- C. cannaeformis* Gutbier, Zwickau, 1835, Pl. 2, fig. 7.
? *C. undulatus* Sternb.
- C. cannaeformis* Roemer, Harzgeb., 1843, Pl. 1, fig. 7.
Asterocalamites radiatus Bgt.
- C. cannaeformis* Sauveur, Belgique, 1848, Pl. 12, fig. (1), 2.
Indeterminable.
- C. cannaeformis* Geinitz, Hain. Ebersd., 1852, Pl. 14, fig. 16—19.
Indeterminable.
- C. cannaeformis* Geinitz, Sachsen, 1855, Pl. 13, fig. 8; Pl. 14, fig. 1, 3—5.
Indeterminable.
- C. cannaeformis* Geinitz, Sachsen, 1855, Pl. 14, fig. 2.
? *C. undulatus*
- C. cannaeformis* Phillips, Manual of Geology, 1855, fig. 113.
Indeterminable.
- C. cannaeformis* Sandberger, Rhein. Schichtensystem in Nassau, 1856, Pl. 38, fig. 5, 5a.
? **Asterocalamites radiatus** Bgt.
- C. cannaeformis* Roehl, Westfalen, 1868, Pl. 1, fig. 2; Pl. 10, fig. 3; Pl. 22, fig. 1.
Indeterminable.
- C. cannaeformis* Roehl, Westfalen, 1868, Pl. 1, fig. 5.
? *C. carinatus* Sternb.
- C. cannaeformis* Roehl, Westfalen, 1868, Pl. 2, fig. 1.
C. undulatus Sternb.
- C. cannaeformis* Roehl, Westfalen, 1868, Pl. 2, fig. 3.
C. undulatus Sternb.
- C. cannaeformis* Schimper, Traité, I, 1869, Pl. 20, fig. 1.
C. gigas Bgt.
- C. cannaeformis* Schimper, Traité, I, 1869, Pl. 20, fig. 3 (copied from GEINITZ, 1855, Pl. 14, fig. 2).
? *C. undulatus* Sternb.
- C. cannaeformis* Dawson, Geol. Surv. Canada, 1871, Pl. 4, fig. 47, 48.
C. suckowi Bgt. 1)
- C. cannaeformis* Higgins, Liverpool Nat. Field Club, 1871, Pl. 1, fig. 2.
C. suckowi Bgt.
- C. cannaeformis* Feistmantel, Böhmen, 1874, Pl. 7, fig. 3; Pl. 8, fig. 2, (Pl. 8, fig. 1).
C. undulatus Sternb.
- C. cannaeformis* Lebour, Illustr., 1877, Pl. 1. *C. suckowi* Bgt.
- C. cannaeformis* Grand' Eury, Loire, 1877, Pl. 3, fig. 1, 2.
Indeterminable.
- C. cannaeformis* Lesq., Coalflora, I, 1879—80, Pl. 1, fig. 1.
Indeterminable.

1) Cf. STOPES, Fern Ledges, Memoir 41, Geolog. Survey of Canada, p. 15, t. 2, f. 2.

- C. cannaeformis* Achepohl, Niederrh. Westf. Steink., 1881, Pl. 8, fig. 3. **C. carinatus Sternb.**
- C. cannaeformis* Achepohl, Niederrh. Westf. Steink., 1881, Pl. 11, fig. 1. **C. suckowi Bgt.**
- C. cannaeformis* Achepohl, Niederrh. Westf. Steink., 1881, Pl. 14, fig. 10. **? Asterophyllites equisetiformis Schl.**
- C. cannaeformis* Achepohl, Niederrh. Westf. Steink., 1881, Pl. 7; fig. 8; Pl. 12, fig. 20; Pl. 12, fig. 18²; Pl. 13, fig. 2. **Indeterminable.**
- C. cannaeformis* Lesquereux, 13. Rept. Geol. Surv. Indiana, II, 1884, Pl. 5, fig. 2. **Indeterminable.**
- C. cannaeformis* Saporta et Marion, Evolution, Phanérog, I, 1885, fig. 12A. **Indeterminable.**
- C. cannaeformis* Lesley, Dict. Foss. Penna, I, 1889, p. 104, Textfig. **Indeterminable.**
- C. cannaeformis* Renault, Commentry, 1888—90, Pl. 44, fig. 6. **Indeterminable.**
- C. cannaeformis* Renault, Commentry, 1888—90, Pl. 44, fig. 7. **C. gigas Bgt.**
- C. cannaeformis* Grand' Eury, Gard, 1890, p. 209, 213, Pl. 3b, fig. 23; Pl. 14, fig. 12 (acc. te Explan. of plates also Pl. 14, fig. 11). **Indeterminable.**
- C. cannaeformis* Hofmann und Ryba, Leitpfl., 1899, Pl. 1, fig. 7. **C. undulatus Sternb.**
- C. (Arthropitys) cannaeformis* Renault, Les plantes fossiles, 1888, fig. 21 (copied from SCHIMPER, Pl. 20, fig. 1). **C. gigas Bgt.**
- C. carinatus Sternb.**
- C. carinatus Sternb. var. rugosus K. et J.**
- C. carinatus Sternb. var. A.**
- C. carinatus Sternb. var. B.**
- C. cellulosus* Kutorga, Beitr. z. Kenntn. d. organ. Ueberreste des Kupfersandsteins, 1838, Pl. 6, fig. 2. **Indeterminable.**
- C. ceratophylloides* (Sternb.) Ettingsh., (*Asteroph. ceratophylloides* Sternb.), Haiding. Natw. Abh., IV, 1, 1851, p. 81. **? Sphenophyllum cuneifolium Sternb.**
- C. cisti Bgt.**
- C. cisti* Sauveur, Belgique, 1848, Pl. 11, fig. 1, 2. **Indeterminable.**
- C. cisti* Geinitz, Sachsen, 1855, Pl. 13, fig. 7. **? C. cisti Bgt.**
- C. cisti* Geinitz, Sachsen, 1855, Pl. 12, fig. 4. **C. infractus Gutb.**
- C. cisti* Geinitz, Sachsen, 1855, Pl. 11, fig. 7, 8; Pl. 12, fig. 5. **Indeterminable.**

- C. cisti* Heer, *Urwelt d. Schweiz*, 1865, fig. 4a, b (also in french and english translations and fig. 16, Ed. II, 1879).
C. paleaceus Stur or C. carinatus Sternb.
- C. cisti* Heer, *Urwelt d. Schweiz*, 1865, fig. 4c (also in french and english translations and fig. 16c, Ed. II, 1879).
Asterophyllites equisetiformis Schl.
- C. cisti* Dawson, *Acad. Geology*, 1868, fig. 38, fig. 163 B, B₁, B₂.
Indeterminable.
- C. cisti* Schimper, *Traité*, I, 1869, Pl. 18, fig. 3
Indeterminable.
- C. cisti* Dawson, *Rept. Geol. Struct. and Miner Res. Prince Edward Island*, *Geol. Surv. Canada*, 1871, Pl. 2, fig. 10, 11.
Indeterminable.
- C. cisti* Dawson, *Lower Carbon.*, *Geol. Surv. Canada*, 1873, Pl. 8, fig. 65.
Indeterminable.
- C. cisti* Heer, *Flora foss. Helvetiae*, 1876, Pl. 20, fig. 1, 2, 4.
Indeterminable.
- C. cisti* Roemer, *Leth. palaeoz.*, 1876, Pl. 50, fig. 2 (copied from GEINITZ).
Indeterminable.
- C. cisti* Grand' Eury, *Loire*, 1877, Pl. 2, fig. 1, 3. **Indeterminable.**
- C. cisti* Lesq., *Coalflora*, 1879—80, Pl. 1, fig. 6. **Indeterminable.**
- C. cisti* Dawson, *Chain of life*, fig. 96 B. **Indeterminable.**
- C. cisti* Achepohl, *Niederrh. Westf. Steink*, 1881, Pl. 18, fig. 14; Pl. 19, fig. 6. **C. undulatus Sternb.**
- C. cisti* Lesquereux, 13. *Rept. Geol. Surv. Indiana*, 1884, Pl. 5, fig. 4. **Indeterminable.**
- C. cisti* Sterzel, DAMES u. KAYSER, *Palaeont. Abh.*, III, 4, 1886, Pl. 1, fig. 8; Pl. 2, fig. 1, 2; Pl. 3, fig. 1; Pl. 8, fig. 2.
Indeterminable.
- C. cisti* Dawson, *Geol. Hist. of Plants*, 1888, fig. 46 B, 48.
Indeterminable.
- C. cisti* Renault, *Commentry*, 1888—90, Pl. 44, fig. 1.
C. renaulti K. et J.
- C. cisti* Renault, *Commentry*, 1888—90, Pl. 57, fig. 4.
Indeterminable.
- C. cisti* Lesley, *Dict. Foss. Penna*, I, 1889, p. 104, Textfig.
Indeterminable.
- C. cisti* Grand' Eury, *Gard*, 1890, Pl. 15, fig. 2. **Indeterminable.**
- C. cisti* Raciborski, *Permokarb. Flora*, 1891, Pl. 1, fig. 1, 2.
Indeterminable.
- C. cisti* Sterzel, *Plau. Grund*, 1893, Pl. 9, fig. 5, 6.
Indeterminable.

- C. cisti* Ryba, Jahrb. k. k. Geol. Reichsanst, LIII, 1903, Pl. 16, fig. 1; Pl. 17, fig. 8. **Indeterminable.**
- C. cisti* Jongmans, Anleitung, I, 1911, Fig. 156 (copied from RENAULT, Pl. 44, fig. 1). **C. renaulti K. et J.**
- C. cisti* Gothan, Vorgesch. der Pflanzen, 1912, Fig. 50. **Indeterminable.**
- C. cistiiformis* Stur.
- C. columella* Kutorga, Beitr. z. Kenntn. der organ. Ueberreste des Kupfersandsteins, 1838, Pl. 5, fig. 2. **Indeterminable.**
- C. (Calamodendron) communis* Binney, Palaeontogr. Soc., 1868, Pl. 1—3. **Anatomy.**
- C. (Calamodendron) communis* Binney, Palaeontogr. Soc., 1868, Pl. 4—5. **Calamostachys binneyana Carr.**
- C. (Calamodendron) communis* Binney, Palaeontogr. Soc., 1868, Pl. 6, fig. 4. **Palaeostachya elongata Presl.**
- C. (Calamodendron) communis* Binney, Mem. Lit. and Phil. Soc. Manchester, (3), IV, 1869, p. 218—224, Pl. 6, (non fig. 2). **Anatomy.**
- C. (Calamodendron) communis* Binney, Mem. Lit. and Phil. Soc. Manchester, (3), IV, 1869, Pl. 6, fig. 2. **Paracalamostachys williamsoniana Weiss.**
- C. (Calamodendron) communis* Schenk, in ZITTEL, Handbuch, II, 1880, fig. 125. **Anatomy.**
- C. (Arthropitys) communis* Sap. et Mar., Evolution, Phanérog., I, 1885, fig. 14. **Anatomy.**
- C. (Arthropitys) communis* Renault, Commentry, 1888—90, Pl. 53, fig. 2. **C. multiramis var. elongatus Gutb.**
- C. Arthropitys communis* Renault, Notice sur les Calam., I, 1895, Pl. 7, fig. 1—7; Autun et Epinac, II, 1896, Pl. 48, fig. 1—7. **Anatomy.**
- C. (Arthropitys) communis* Felix, Földtani Közlöny, XXVI, 1896, Pl. 4. **Anatomy.**
- C. (Arthropitys) communis* Zeiller, Eléments, 1900, fig. 108. **Anatomy.**
- C. communis* Ettingshausen, Sitz. Ber. Ak. Wiss., Wien, IX, 1852, Pl. 48, fig. 1. **? C. semicircularis Weiss.**
- C. communis* Ettingshausen, Sitz. Ber. Ak. Wiss., Wien, IX, 1852, Pl. 48, fig. 2; Pl. 49, fig. 1. **Indeterminable.**
- C. communis* Ettingshausen, Radnitz, 1854, Pl. 3, fig. 2; Pl. 4, fig. 4. **C. carinatus Sternb.**
- C. communis* Ett., Radnitz, 1854, Pl. 1, fig. 1, 2. **C. semicircularis Weiss.**

- C. communis* Ett., Radnitz, 1854, Pl. 3, fig. 1, 3; Pl. 4, fig. 1, 3.
C. undulatus Sternb.
- C. communis* Ett., Radnitz, 1854, Pl. 8, fig. 2, 3.
C. distachyus Sternb.
- C. communis* Ett., Radnitz, 1854, Pl. 8, fig. 1, 4.
Palaeostachya ettingshauseni Kidston.
- C. communis* Ett., Radnitz, 1854, Pl. 4, fig. 2; Pl. 5; Pl. 9; Pl. 10.
Indeterminable.
- C. communis* Ett., Radnitz, 1854, Pl. 1, fig. 5; Pl. 6; Pl. 7.
cf. Sphenophyllum myriophyllum Crépin.
- C. communis* Feistm., Abh. k. Böhm. Ges. d. Wiss. (6), II, 1869,
 Pl. 1, fig. D, E. **C. undulatus Sternb.**
- C. communis* Feistm., Abh. k. Böhm. Ges. d. Wiss. (6), II, 1869,
 Pl. 1, fig. A. **Indeterminable.**
- C. (Calamophyllites) communis* Grand' Eury, Gard, 1890, Pl. 11,
 fig. 2, 3 (JONGMANS, Anl., I, 1914, fig. 105, 106). **Doubtful.**
- C. communis* Seward, Fossil Plants, I, 1898, fig. 74 A, 75, 76.
Anatomy.
- C. communis* Scott, Studies, 1900 and 1908, fig. 8, 9.
Anatomy.
- C. communis* Zalessky, Bull. Soc. russe d'amis d'études de l'Univers,
 1912, II, fig. 3. **Anatomy.**
- C. concentricus* Cotta, Dendrol., 1832. Pl. 16, fig. 2—5.
Anatomy; doubtful.
- C. (Calamodendron) congenius* Grand' Eury, Loire, 1877, p. 291.
C. multiramis Weiss.
- C. (Calamodendron) congenius* Renault, Commeny, II, 1888—90,
 Pl. 56, fig. 3. **C. multiramis Weiss.**
- C. (Calamodendron) congenius* Renault, Autun et Epinac, II, 1896,
 Pl. 59, fig. 1 (copied 1898, Pl. 2; fig. 1). **Anatomy.**
- C. (Calamodendron) congenius* Renault, Notice sur les Calamar., III,
 1898, Pl. 7 bis, fig. 3 (copied from 1888).
C. multiramis Weiss.
- C. cottaeanus* Sternberg, Versuch, II, 5, 6, 1833, p. 51. **Anatomy.**
- C. crassicaulis* Renault (*Macrostachya crassic.* Renault).
- C. cruciatus* Sternb.
- C. cruciatus* Bgt., Histoire, I, 1828, Pl. 19.
C. brongniarti Sternb.
- C. cruciatus* Gutbier, Zwickau, 1835, Pl. 2, fig. 9, 10, 12, 13, 16.
?C. multiramis Weiss.
- C. cruciatus* Sap. et Mar., Evol., Phanér., I, 1885, fig. 13.
C. multiramis Weiss.

- C. cruciatus* Zeiller, Valenciennes, 1886, Pl. 55, fig. 2. **Indeterminable.**
- C. cruciatus* Toula, Steinkohlen, 1888, Pl. 6, fig. 3. **Indeterminable.**
- C. cruciatus* Seward, Fossil Plants, 1898, fig. 102. **C. brongniarti Sternb.**
- C. cruciatus* Hofmann et Ryba, Leitpfl., 1899, Pl. 1, fig. 9. **Indeterminable.**
- C. (Calamodendron) cruciatus* Zeiller, Explic. carte géol., IV, 1, 1878—1880, Pl. 174, fig. 3. **C. multiramis Weiss.**
- C. (Calamodendron) cruciatus* Fritel, Paléobot., 1903, fig. 27 (copied from ZEILLER, 1878—80). **C. multiramis Weiss.**
- C. cruciatus congenius* (G. E.) Sterzel, Plau. Grund, 1893, p. 59. **C. multiramis Weiss.**
- C. cruciatus cucullatus* (Weiss) Sterzel, Plau. Grund, 1893, p. 57; JONGMANS, Anleitung, I, 1911, fig. 122. **C. cucullatus Weiss.**
- C. cruciatus distichus* (Ren.) Sterzel, Plau. Grund, 1893, p. 59; JONGMANS, Anleitung, I, 1911, fig. 129. **C. distichus Renault.**
- C. cruciatus elongatus* (Weiss) Sterzel, Plau. Grund, 1893, p. 60. **C. multiramis Weiss.**
- C. cruciatus equisetinus* (Weiss) Sterzel, Plau. Grund, 1893, p. 59; JONGMANS, Anleitung, I, 1911, fig. 126, 127, 128. **Indeterminable.**
- C. cruciatus ettingshauseni* Sterzel, Plau. Grund, 1893, p. 59, 81; JONGMANS, Anleitung, I, 1911, fig. 125. **Indeterminable.**
- C. cruciatus foersteri* Sterzel, Plau. Grund, 1893, p. 59, 68, Pl. 7, fig. 5, 6. **C. multiramis Weiss.**
- C. cruciatus foersteri* Sterzel, Plau. Grund, 1893, Pl. 8, fig. 1—3. **Indeterminable.**
- C. cruciatus gutbieri* (Stur) Sterzel, Plau. Grund, 1893, p. 59; JONGMANS, Anleitung, I, 1911, fig. 132. **C. multiramis Weiss.**
- C. cruciatus infractus* (Gutb.) Sterzel, Plau. Grund, 1893, Pl. 8, fig. 6; JONGMANS, Anleitung, I, 1911, fig. 133. **C. infractus Gutb.**
- C. cruciatus manebachensis* Sterzel, Plau. Grund, 1893, p. 59; JONGMANS, Anleitung, I, 1911, fig. 131. **C. multiramis Weiss.**
- C. cruciatus multiramis* Weiss var. *typicus* Sterzel, Plau. Grund, 1893, p. 58; JONGMANS, Anleitung, I, 1911, fig. 123, 124. **C. multiramis Weiss.**
- C. cruciatus multiramis* Weiss var. *vittatus* Sterzel, Plau. Grund, 1893, Pl. 9, fig. 1. **C. multiramis Weiss.**
- C. cruciatus punctatus* (Ren.) Jongmans, Anleitung, I, 1911, p. 143. **C. multiramis Weiss.**

- C. cruciatus quaternarius* Weiss, Steink. Calam., II, 1884, Pl. 13, fig. 1; JONGMANS, Anleitung, I, 1911, fig. 119.
C. cruciatus Sternb.
- C. cruciatus quaternarius* Weiss *congenius* (Ren.) Jongmans, Anleitung, I, 1911, fig. 121.
C. multiramis Weiss.
- C. cruciatus quinquenarius* Sterzel *britannicus* Sterzel, Plau. Grund, 1893, p. 58.
C. brongniarti Sternb.
- C. cruciatus quinquenarius* Sterzel *doehlensis* Sterzel, Plau. Grund, 1893, Pl. 9, fig. 2.
C. multiramis Weiss.
- C. cruciatus quinquenarius* Sterzel *doehlensis* Sterzel, Plau. Grund, 1893, Pl. 9, fig. 3.
Indeterminable.
- C. cruciatus senarius* Weiss, Steink. Calam., II, 1884, Pl. 13, fig. 2.
C. cruciatus Sternb.
- C. cruciatus senarius* Kidston, Trans. Roy. Soc. Edinb., XXXIII, 1887, Textf. 1.
C. brongniarti Sternb.
- C. cruciatus septenarius* Sterzel *brongniarti* (Sternb.) Sterzel, Plau. Grund, 1893, p. 58.
C. brongniarti Sternb.
- C. cruciatus septenarius* Sterzel *fasciatus* Sterzel, Plau. Grund, 1893, Pl. 8, fig. 4, 5.
C. multiramis Weiss.
- C. cruciatus septenarius* Sterzel *punctatus* (Ren.) Sterzel, Plau. Grund, 1893, p. 58.
C. multiramis Weiss.
- C. cruciatus striatus* (Cotta) Sterzel, Plau. Grund, 1893, Pl. 9, f. 4; Pl. 11, fig. 28—34.
Anatomy.
- C. cruciatus striatus* (Renault) Jongmans, Anleitung, I, 1911, f. 130.
C. multiramis Weiss.
- C. cruciatus ternarius* Weiss, Steink. Calam., II, 1884, Pl. 13, fig. 3.
C. cruciatus Sternb.
- C. cucullatus Weiss.**
- C. cultranensis* Haughton, Journ. Geol. Soc. Dublin, VI, 1855, p. 237, 239. No figure.
Indeterminable.
- C. (Arthropitys) dadoxylinus* G. E., Loire, 1877, p. 288 (Tabl. A).
Indeterminable.
- C. decoratus* Bgt., Classific., 1822, Pl. 1 (12), fig. 2.
C. undulatus Sternb.
- C. decoratus* Artis, Antedil. Phytol., 1825, Pl. 24.
C. suckowi Bgt.
- C. decoratus* Bgt., Histoire, I, 1828, Pl. 14, fig. 1, 2.
C. suckowi Bgt.
- C. decoratus* Bgt., Histoire, I, 1828, Pl. 14, fig. 3, 4.
C. undulatus Sternb.
- C. decoratus* Bischoff, Kryptog. Gewächse, Pl. 6, fig. 11.
C. undulatus Sternb.

- C. decoratus* Mantell, Pictorial Atlas, Pl. 17. **C. suckowi** Bgt.
- C. decoratus* Mantell, Medals of creation, 1854, fig. 14. **C. undulatus** Sternb.
- C. decoratus* Eichwald, Géogn. de la Russie, 1846, p. 432 (*Equisetites decoratus* Eichw., Leth. ross., I, 1860, Pl. 13, fig. 5—10). **Indeterminable.**
- C. decoratus* Schlotheim, Petref., 1820, p. 401. No figure. **Indeterminable.**
- C. decurtatus* Weiss, Steink. Calam., II, 1884, p. 118. **C. multiramis** Weiss.
- C. deltenrei** K. et J. nov. spec.
- C. dictyoderma** K. et J. nov. spec.
- C. difformis* Sternb., Versuch, I, 4, 1825, p. XXX. No figure. **Indeterminable.**
- C. dilatatus* Goepp., Uebergangsgeb., 1852, Pl. 6, fig. 1, 2. **Doubtful.**
- C. dilatatus* Goepp., Uebergangsgeb., 1852, Pl. 6, fig. 3. **C. roemeri** Goepp.
- C. discifer** Weiss.
- C. discifer* Kidston, Hainaut, 1911, Pl. 10, fig. 5. **C. germarianus** Goepp.
- C. disjunctus* Emmons, Amer. Geol., VI, ?, p. ? No figure. **Indeterminable.**
- C. disjunctus* Lesq., in ROGERS, Geol. of Penna, II, 1858, Pl. 2, fig. 5. **Indeterminable.**
- C. distachyus** Sternb. (*Volkmania distachya*) non Autt.
- C. distachyus* Zeiller, Héracleé, 1899, p. 60. **C. schulzi** Stur.
- C. distachyus* Jongmans, Anleitung, I, 1911, fig. 159, 160. **C. schulzi** Stur.
- C. distans* Roemer, Verstein. Harzgeb., 1843, Pl. 1, fig. 5, 6; id., Palaeontogr., III, 1, 1850, Pl. 7, fig. 2. **Indeterminable.**
- C. distans* Sauveur, Belgique, 1848, Pl. 6. **Indeterminable.**
- C. distans* Sternberg, Versuch, I, 4, 1825, p. XXVI. **Indeterminable.**
- C. distichus** Renault.
- C. dubius* Artis, Antedil. Phytol., 1825, Pl. 13. **Doubtful.**
- C. dubius* Bgt., Histoire, 1828, Pl. 18, fig. 1, 2 (copied from ARTIS). **Doubtful.**
- C. dubius* Bgt., Histoire, 1828, Pl. 18, fig. 3. **C. cisti** Bgt.
- C. dubius* Mantell, Pictorial Atlas, 1850, Pl. 3, fig. 3. **Indeterminable.**

- C. dubius* Mantell, Pict. Atlas, 1850, Pl. 14 (copied from ARTIS).
Doubtful.
- C. duplex* Achepohl, Niederrh. Westf. Steink., Lief. III, 1883, Pl. 41, fig. 11.
C. undulatus Sternb.
- C. dürri* Gutbier, Verst. Rothl. Sachsen, 1849, Pl. 1, fig. 6.
Indeterminable.
- C. elegans* (Goeppert) Ett., (*Asterophyllites elegans* Goepp.), Haidinger's Natw. Abh., IV, 1, 1851, p. 81.
Indeterminable.
- C. elongatus* Gutbier, Zwickau, 1835, Pl. 3b, fig. 2, 3.
C. multiramis Weiss var. *elongatus* Gutb.
- C. elongatus* Renault, Commeny, 1888—90, Pl. 52, fig. 2.
C. elongatus Ren. as doubtful species.
- C. elongatus* Renault, Commeny, 1888—90, Pl. 57, fig. 2.
Indeterminable.
- C. elongatus* Sternb. (*C. remotus* Bgt.) Triassic.
- C. elongatus* Weiss, Steink. Calam., II, 1884, p. 117.
C. multiramis Weiss.
- C. equisetiformis* (Schl.) Ettingsh., (*Asteroph. equisetiformis*), Abh. k. k. Geol. Reichsanst., Wien, II, Abt. III, 3, 1854, p. 28.
Asterophyllites equisetiformis Schl.
- C. equisetinus* Weiss, Jahrb. k. pr. Geol. Landesanst. für 1884 (1885), Pl. 1, fig. 1, 2.
Indeterminable.
- C. erosus* (Bgt.) Ettingsh., (*Volkmanntia erosa* Bgt.), Haiding. Natw. Abh., IV, 1, 1854, p. 81. No figure. ?
- C. ettingshauseni* Sterzel, Zeitschr. D. Geol. Ges., XLIII, 1891, p. 782.
Indeterminable.
- C. ettingshauseni* Stur mns., in k. k. Geol. Reichsanst. Wien.
C. cisti Bgt.
- C. extensus* Weiss, Steink. Calam., II, 1884, Pl. 4, fig. 2; Jongmans, Anl., I, 1911, fig. 89.
C. sachsei Stur.
- C. (Arthropitys) ezonatus* Goeppert, Palaeontogr., XII, Pl. 58, fig. 1—6.
Anatomy.
- C. (Calamodendron) fallax* Grand' Eury, Gard, 1890, Pl. 14, fig. 10.
Indeterminable.
- C. fasciatus* Sternb., Versuch, I, 4, 1825, p. XXVI; (I, 2, Pl. 17, fig. 3).
No Calamites.
- C. foersteri* Sterzel, Zeitschr. D. Geol. Ges., XLIII, 1891, p. 782.
Doubtful.
- C. foliosus* Grand' Eury, Loire, 1877, Textf. p. 31; id., Gard, 1890, Pl. 15, fig. 3, 4, 5, 6.
? *C. cisti* Bgt.
- C. frondosus* Grand' Eury, Gard, 1890, Pl. 16.
Phyllothea frondosa Grand' Eury.

- C. frumentarius* Gutbier, Gaea v. Sachsen, 1843, p. 98.
No Calamites.
- C. (Equisetum) fucinii* Stefani, Flore carb. e perm. della Toscana, 1901, Pl. 9, fig. 8. **Doubtful.**
- C. (Arthropitys) gallicus* Renault, Commentry, 1888, Pl. 75, fig. 15—19; id. Notice sur les Calam., II, 1896, Pl. 2, 3. **Anatomy.**
- C. (Equisetites) geinitzii* G. E., Loire, 1877, Pl. 5, fig. 5.
cf. C. brittsii White and especially C. crassicaulis Ren.
- C. geinitzii* G. E., Gard, 1890, Pl. 14, fig. 1.
cf. C. brittsii White and especially C. crassicaulis Ren.
- C. geniculosus* Matthew, Trans. Roy. Soc. Canada, (2), XII, Sect. IV, 1906, Pl. 2, fig. 5; Pl. 8, fig. 1. **Indeterminable.**
- C. germanianus* Goepfert.
- C. germanianus* Stur, Calam. Schatzl. Schicht., 1887, Pl. 14b, fig. 5. **C. brittsii White.**
- C. germanianus* Stur, Calam. Schatzl. Schicht., 1887, Pl. 15b, fig. 1. **Asterophyllites longifolius Sternb.**
- C. gibbosus* Schloth., Petrefactenkunde, 1820, p. 400. **Indeterminable.**
- C. gibbosus* Bischoff, Die kryptog. Gewächse, 1828, Pl. 6, fig. 6. **Indeterminable.**
- C. giganteus* Bean. **Jurassic.** **Equisetites beani Presl.**
- C. (Hippurites) giganteus* Eichwald, Lethaea rossica, I, 1860, Pl. 14, fig. 4. **Calamites species (Pith cast).**
- C. giganteus* Grand' Eury, Rech. géobot. sur les forêts et sols fossiles, 1, 1, 1912, Pl. 1, fig. 1; Textfig. 1. **Indeterminable.**
- C. (Hippurites) giganteus* L. et H., Fossil Flora, II, 1834, Pl. 114. **Outer surface of some Calamites.**
- C. cf. giganteus* (L. et H.) Weiss, Steink. Calam., II, 1884, Pl. 17, fig. 2, 3. **Indeterminable.**
- C. gigas* Bgt.
- C. gigas* Boulay, Terr. houill. Nord de la France, 1876, p. 21. **Indeterminable.**
- C. gigas* Jongmans, Anleitung, I, 1911, fig. 150. **C. undulatus Sternb.**
- C. (Arthropitys) gigas* Renault, Les plantes fossiles, 1888, fig. 20 (copied from GEINITZ, 1855, Pl. 14, fig. 2). **Doubtful.**
- C. (Arthropitys) gigas* Renault, Commentry, 1888—90, Pl. 53, fig. 3, 4; Pl. 55, fig. 1, 2; Pl. 56, fig. 1; Pl. 57, fig. 1. **? C. undulatus Sternb.**
- C. (Arthropitys) gigas* Renault, Commentry, 1888—90, Pl. 75, fig. 20—26. **Anatomy.**

- C. (Arthropitys) gigas* Renault, Notice sur les Calam., III, 1898,
Pl. 7bis, fig. 1. ? *C. undulatus* Sternb.
- C. goepperti* Ettingsh.
- C. goepperti* Jongmans, Anleitung, I, 1911, fig. 84, 86.
C. sachsei Stur.
- C. goepperti* Gutbier, Gaea von Sachsen, 1843, p. 99.
No Calamites.
- C. goepperti* Roemer, Palaeontogr., III, 1, 1850, Pl. 7, fig. 8.
C. roemeri Goep.
- C. gracilis* Lesq., Coalflora, 1879—80, Pl. 75, fig. 17.
Indeterminable.
- C. (Equisetites) gradatus* Eichwald, Lethaea ross., I, Pl. 13, fig. 3, 4.
Indeterminable.
- C. grandis* (L. et H.) Ett., Haiding. Natw. Abh., IV, 1, 1851, p. 77
(*Asterophyllites grandis* L. et H., Fossil Flora, I, Pl. 17).
Calamites species with roots.
- C. gümbeli* Schenk. Triassic. *Schizoneura hoerensis* His.
- C. gutbieri* Stur, Calam. schatzl. Schicht., 1887, p. 86 pars.
C. multiramis Weiss.
- C. haueri* Stur.
- C. heeri* Stefani, Flore carbon. e perm. Toscana, 1901, Pl. 3, fig. 10;
Pl. 10, fig. 2. Indeterminable.
- C. hippuroides* (Bgt.) Ett., Haiding. Natw. Abh., IV, 1, 1851, p. 81
(*Asterophyllites hippuroides* Bgt.).
Asterophyllites equisetiformis Schl.
- C. hoerensis* His. Rhaetic.
Equisetites scanicus Sternb. (*Schizoneura hoerensis* His.).
- C. hottonioides* (Goep.) Ett., Haiding. Natw. Abh., IV, 1, 1851, p. 81.
Indeterminable.
- C. inaequalis* Eichw. Neocomian. ?
- C. inaequale* Renault, Commentry, 1888—90, Pl. 56, fig. 2.
C. infractus Gutb.
- C. inaequus* Achepohl, Niederrh. Westf. Steink., III, 1883, Pl. 34,
fig. 15. *C. undulatus* Sternb.
- C. inconstans* G. E., Gard, 1890, p. 209. *C. goepperti* Ett.
- C. inequalis* L. et H., Fossil Flora, III, 1837, Pl. 196.
Indeterminable.
- C. inermis* Schloth., Petrefactenk., 1820, p. 401.
Indeterminable.
- C. infractus* Gutb.
- C. infractus* Gutb., Zwickau, 1835, Pl. 3, fig. 4, 5, 6.
Indeterminable.

- C. infractus* Gümbel, Beitr. z. Flora der Vorw., 1860, Pl. 8, fig. 8.
Indeterminable.
- C. infractus* Geinitz, Dyas, II, 1862, Pl. 25, fig. 3, 4.
Indeterminable.
- C. infractus* Twelvetrees, Q. J. G. S., London, XXXVIII, 1882, Pl. 20, fig. 2.
Indeterminable.
- C. infractus* Sterzel, Dames u. Kayser's Palaeont. Abh., III, 4, 1886, Pl. 8, fig. 1.
Indeterminable.
- C. infractus* Gutb. var. *leioderma* Sandberger, Würzburger naturw. Zeitschr., VI, 2, 1866, Pl. 5, fig. 4, 5.
Indeterminable.
- C. (Calamophyllites) ingens* G. E., Loire, 1877, p. 40. No figure.
Indeterminable.
- C. inornatus* Dawson, Q. J. G. S., London, XVIII, 1862, Pl. 17, fig. 5, 6.
Asterocalamites radiatus Bgt.
- C. insignis* Sauveur, Belgique, 1848, Pl. 13, fig. 1, 2; JONGMANS, Anl., I, 1911, fig. 162.
Indeterminable.
- C. insignis* (Weiss) Renier, Documents, 1910, Pl. 42.
Indeterminable.
- C. (Calamodendroxylon) intermedius* G. E., Loire, 1877, p. 292. No figure.
Indeterminable.
- C. (Calamodendron) intermedius* Renault, Autun et Epinac, II, 1896, Pl. 59, fig. 2, 3; id., Notice sur les Calam., III, 1898, Pl. 21, fig. 2, 3; SCOTT, Studies, 1900, 1908, fig. 10; SEWARD, Fossil Plants, I, 1898, fig. 84.
Anatomy.
- C. interruptus* Schloth., Petrefactenkunde, 1820, Pl. 20, fig. 2.
Indeterminable.
- C. interruptus* Schloth., Merkw. Verstein., 1832, Pl. 1, fig. 2.
Asterophyllites equisetiformis Schl.
- C. intumescens* Acheppohl, Niederrh. Westf. Steink., 1883, Pl. 36, fig. 7.
C. undulatus Sternb.
- C. (Calamodendroxylon) inversus* G. E., Loire, 1877, p. 293. No figure.
Indeterminable.
- C. irregularis* Acheppohl, Niederrh. Westf. Steink., 1882, Pl. 28, fig. 2.
C. suckowi Bgt.
- C. irregularis* Kutorga, Beitr. z. Kenntn. der organ. Ueberreste des Kupfersandsteins, 1838, Pl. 6, fig. 3.
Indeterminable.
- C. jaegeri* Sternb. **Triassic.**
- C. jubatus* L. et H.
- C. latecostatus* Sternb. (cf. SCHIMPER, Traité, I, p. 284). ?
- C. lateralis* Phillips. **Jurassic.** **Equisetites columnaris Bgt. (Seward).**
- C. laticostatus* Ett., Dachschiefer, 1866, Pl. 3, fig. 1.
Asterocalamites radiatus Bgt.

- C. lehmannianus* Goep. **Jurassic.**
- C. leioderma* Gutbier, Zwickau, 1835, Pl. 1, fig. 5. **Indeterminable.**
- C. leioderma* Goep., Palaeontogr., XII, 1864—65, Pl. 3, fig. 1. **Indeterminable.**
- C. leioderma* Twelvetrees, Q. J. G. S., XXXVIII, 1882, Pl. 21, fig. 1. **Indeterminable.**
- C. leioderma* Stefani, Flore carbon. e perm. Toscana, 1901, Pl. 9, fig. 9; Pl. 10, fig. 1. **Indeterminable.**
- C. leioderma* Zeiller, Brive, 1892, Pl. 10, fig. 1—3; JONGMANS, Anleit., I, 1911, fig. 157, 158. **C. undulatus Sternb.**
- C. cf. leioderma* Zeiller, Ann. des Mines, (9), XIX, 4, 1901, Pl. 7, fig. 9. **Indeterminable.**
- C. liaso-keuperinus* F. Braun. **Keuperian.** ?
- C. lindleyanus* (Goep.) Ett., Haiding. Natw. Abh., IV, 1, 1851, p. 81 (*Asteroph. lindleyanus* Goep.; *Hippurites longifolius* L. et H., Fossil Flora, 1836, Pl. 190, 191). **Asterophyllites equisetiformis Schl.**
- C. lindleyi* Sternb., Versuch, II, 5, 6, 1833, p. 48. **Indeterminable.**
- C. (Calamitea) lineatus* Sternberg, Versuch, II, 5, 6, 1833, p. 51 (*Calamitea lineata* Cotta, Dendrol., 1832, Pl. 16, fig. 1). **? No Calamites, Anatomy.**
- C. cf. lineatus* Stur, Sitz. k. Akad. Wiss. Wien, LXXXIII, I, 1884, Fig. 9; id., Calam. Schatzl. Schicht., 1887, Textf. 11. **Anatomy.**
- C. (Arthropitys) lineatus* Renault, Notice sur les Calam., II, 1896, Pl. 8, fig. 1—7; id., Autun et Epinac, II, 1896, Pl. 53, fig. 1—7. **Anatomy.**
- C. (Calamophyllites) longifolius* G. E., Loire, 1877, p. 38 (*Hippurites longifolius* L. et H.). **Asterophyllites equisetiformis Schl.**
- C. macrodiscus* Weiss, Steink. Calam., II, 1884, Pl. 14, fig. 2; JONGMANS, Anl., I, 1911, fig. 104. **C. germanianus Goep.**
- C. major* Achepohl, Niederrh. Westf. Steink., 1882, Pl. 22, fig. 7, 8. **Indeterminable.**
- C. major* Weiss, Foss. Fl. jüngst. Steink., 1871, Pl. 13, fig. 6; Pl. 14, fig. 1. **C. gigas Bgt.**
- C. major* Sterzel, Dames u. Kayser's Palaeont. Abh., III, 4, 1886, Pl. 7, fig. 8. **C. gigas Bgt.**
- C. major* G. E., Gard, 1890, Pl. 14, (? f. 13), fig. 14. **C. gigas Bgt.**
- C. major* Jongmans, Anl., I, 1911, fig. 151. **C. gigas Bgt.**

- C. major* G. E., Recherch. géobot. sur les forêts et les sols fossiles, 1912, I, 1, Pl. 8, fig. 6, 7, 8. **Indeterminable.**
- C. (Arthropitys) major* Renault, Commentry, 1888—90, Pl. 75, fig. 27, 28. **Anatomy.**
- C. (Cyclocladia) major* L. et H., Fossil Flora, II, 1834, Pl. 130. **C. undulatus Sternb.**
- C. (Cyclocladia) major* Feistmantel, Abh. k. Böhm. Ges. d. Wiss., (6), II, 1868, Pl. 1, fig. B. **Indeterminable.**
- C. (Cyclocladia) major* Feistmantel, Abh. k. Böhm. Ges. d. Wiss., (6), II, 1868, Pl. 1, fig. C; id., Studien, Abh. k. B. G. d. W., (6), VII, Pl. 1, fig. 1; id., Böhmen, 1874, Pl. 2, fig. 1, 2. **C. semicircularis Weiss.**
- C. (Cyclocladia) major* Feistmantel, Böhmen, 1874, Pl. 1, fig. 8. **C. goepperti Ett.**
- C. (Arthropitys) medullatus* Renault, Autun et Epinac, II, 1896, Pl. 54, f. 1—6; Pl. 55; id., Notice sur les Calam., II, 1896, Pl. 9, fig. 1—6; Pl. 10. **Anatomy.**
- C. (Arthropitys) medullatus* Renault, Autun et Epinac, II, 1896, Pl. 54, fig. 7, 8; id., Notice sur les Calam., II, 1896, Pl. 9, fig. 7, 8; JONGMANS, Anleitung, I, 1911, fig. 96. **? C. schützeiformis forma typicus K. et J.**
- C. meriani* (Bgt.) Schenk. **Keuperian.**
- C. mesozoicus* Compter. **Keuperian.**
- C. minor* G. E., Rech. géobot. sur les forêts et les sols fossiles, I, 1, 1912, p. 36. **Indeterminable.**
- ? *C. (Arthropitys) mirabilis* Eichw. **Cretaceous.** ?
- C. (Equisetum) monyi* Ren. et Zeiller, Commentry, II, 1888—90, Pl. 57, fig. 7; JONGMANS, Anleitung, I, 1911, fig. 32. **Doubtful; cf. C. goepperti Ett.**
- C. mougeotii* Bgt. **Triassic.**
- C. mougeotii* L. et H., Fossil Flora, I, 1832, Pl. 22. **Indeterminable.**
- C. multiramis Weiss.**
- C. multiramis var. elongatus Gutbier.**
- C. neumannianus* (Goepp.) Ett., Haidinger's Natw. Abh., IV, 1, 1851, p. 81. (*Asterophyllites neumannianus* Goepp.). **Asterophyllites equisetiformis Schl.**
- C. nodosus* Schloth., Petrefactenk., 1820, Pl. 20, fig. 3; id., Merkw. Verstein., 1832, Pl. 20, fig. 3. **Indeterminable.**
- C. nodosus* Sternberg, Versuch, I, 2, 1823, Pl. 17, fig. 2. **C. carinatus Sternb.**
- C. nodosus* Bgt., Histoire, I, 1828, Pl. 23, fig. 3. **C. undulatus Sternb.**

- C. nodosus* Bgt., Histoire, I, 1828, Pl. 23, fig. 2, 4. **Indeterminable.**
- C. nodosus* L. et H., Fossil Flora, I, Pl. 15, pars. **C. carinatus Sternb.**
- C. nodosus* L. et H., Fossil Flora, I, 1832, Pl. 15, pars, Pl. 16. **Palaeostachya.**
- C. nodosus* Gutbier, Zwickau, 1835. Pl. 3b, fig. 1, 1a. **C. cruciatus Sternb.**
- C. nodosus* Mantell, Medals of creation, 1844, fig. 40, N^o. 2. **Annularia species.**
- C. nodosus* Sauveur, Belgique, 1848, Pl. 12, fig. 3. **C. suckowi Bgt.**
- C. nodosus* Dawson, Acad. Geology, 1868, fig. 163, C, C₁, D, E. **Indeterminable.**
- C. nodosus* Lebour, Illustrations, 1877, Pl. 2, 3. **C. carinatus Sternb.**
- C. nodosus* Achebobl, Niederrh. Westf. Steink., 1883, Pl. 39, fig. 3a. **C. undulatus Sternb.**
- C. nova-scoticus* Dawson, Q. J. G. S., XXII, 1866, Pl. 12, fig. 89. **Indeterminable.**
- C. obliquus* Goeppl., Uebergangsgeb., 1852, Pl. 6, fig. 9, 10. **Indeterminable.**
- C. (Calamodendron) obscurus* Dawson, Q. J. G. S., XII, 1866, Pl. 7, fig. 31d. **Indeterminable.**
- C. obscurus* Von Muenster, 1840, Triassic, No figure. **?**
- C. (Calamitina) oculatus Geinitz.**
- C. (Calamitina) ohlsbachensis Sterzel.**
- C. ornatus* Sternb., Versuch, I, 4, 1825, p. XXVII (*C. approximatus* Artis, 1825, Pl. 4). **C. schützeiformis forma typicus K. et J.**
- C. ostraviensis* Stur, Culmfl., II, 1877, Pl. 6, fig. 1—3, ? 4; Textfig. 4; JONGMANS, Anl., I, 1911, fig. 69. **C. roemeri Goeppl.**
- C. ostraviensis* Tondera, Pamieln. Wyzd. mat. przyr. Akad Umiej w Krakowie, 1889, XVI, Pl. 13, fig. 7. **C. gigas Bgt.**
- C. ostraviensis* Zeiller, Héraclée, 1899, p. 59. **C. roemeri Goeppl.**
- C. ostraviensis* Stur, Culmfl., II, 1877, Textf. 5a, 6. **Indeterminable.**
- C. pachyderma* Bgt., Histoire, I, 1828, Pl. 22. **C. undulatus Sternb.**
- C. pachyderma* G. E., Loire, 1877, Pl. 3, fig. 3. **Indeterminable.**
- C. pachyderma* G. E., Gard, 1890, Pl. 14, fig. 11 B. **Indeterminable.**

C. paleaceus Stur.

C. (Arthropitys) parrami G. E., Gard, 1890, Pl. 14, fig. 6—8; JONGMANS, Anl., I, 1911, fig. 134, 135; SEWARD, Fossil Pl., 1898, fig. 77.

Indeterminable.

C. pauciramis Weiss, Steink. Calam., II, 1884, Pl. 11, fig. 1; JONGMANS, Anl., I, 1911, fig. 101. **C. discifer** Weiss.

C. pauciramis Kidston, Trans. Roy. Soc. Edinb., XL, 1903, Pl. 4, fig. 36; Pl. 5, fig. 44. **C. discifer** Weiss.

C. pectinatus Gutbier, Gaea v. Sachsen, 1843, p. 99.

No Calamites.

C. pedunculatus Will., cf. SCOTT, Studies, Ed. 2, I, 1908, p. 63.

Palaeostachya vera Seward.

C. pettycurensis Scott, Studies, Ed. II, I, 1908, fig. 11; (*Protocalamites*: LOTSY, Botan. Stammesgesch., II, 1909, fig. 352, 353; POTONIE, Pflanzenmorphologie, 1912, fig. 140). **Anatomy.**

C. petzholdti Gutbier, Gaea v. Sachsen, 1843, p. 69 (*C. species* Petzholdt, 1841). **Indeterminable.**

C. planicostatus Roemer, Palaeontogr., III, 1, 1850, Pl. 7, fig. 3.

Indeterminable.

C. planicostatus Rogers. **Triassic, No figure.** ?

C. (Arthropitys) porosus Renault, Autun et Epinac, II, 1896, Pl. 52, fig. 4—8; id., Notice sur les Calam., II, 1896, Pl. 7, fig. 4—8.

Anatomy.

C. posterus Deffn. et Fraas. **Triassic.**

C. pseudobambusia Sternberg, Versuch, I, 1, 1820, Pl. 13, fig. 3.

Indeterminable.

C. pseudobambusia Artis, Anted. Phytol., 1825, Pl. 6.

Indeterminable.

C. pseudobambusia Bischoff, Kryptog. Gew., 1823, Pl. 6, fig. 5.

Indeterminable.

C. pseudobambusia Mantell, Pictor. Atlas, 1850, Pl. 15.

Indeterminable.

C. pseudocruciatus G. E., Gard, 1890, Pl. 14, fig. 9.

Indeterminable.

C. pseudogermarianus K. et J. nov. spec.

C. punctatus Emmons. **Mesozoic.**

Sphenozamites rogersianus Font.

C. (Calamodendron) punctatus Renault, Commeny, 1888—90, Pl. 56, fig. 4, 5; id., Notice sur les Calam., III, 1898, Pl. 7bis, fig. 4, 5.

C. multiramis Weiss.

C. (Arthropitys) punctatus Renault, Autun et Epinac, II, 1896, p. 144, 145. **Anatomy.**

- C. pygmaeus* (Bgt.) Ett., Haidinger's Naturw. Abh., IV, 1, 1851, p. 81
(*Asteroph. pygmaeus* Bgt.). **Asterophyllites grandis** Sternb.
- C. radiatus* Bgt., Histoire, I, 1828, Pl. 26, fig. 1, 2.
Asterocalamites radiatus Bgt.
- C. radiatus* Mantell, Medals of creation, 1844, fig. 7, N^o. 1.
Indeterminable.
- C. radiatus* Schimper, Végét. terr. trans. Vosges, 1862, Pl. 1.
Asterocalamites radiatus Bgt.
- C. radiatus* Heer, Fl. foss. arct., II, 1, 1871, Pl. 1, fig. 1a.
Calamites species.
- C. radiatus* Heer, Fl. foss. arct., II, 1, 1871, Pl. 1, fig. 2, 3, ? 4, 5;
Pl. 1, fig. 7, 8; Pl. 2, fig. 1; Pl. 3, fig. 1, 2b, 3. **Knorria.**
- C. radiatus* Heer, Fl. foss. arct., II, 1, 1871, Pl. 1, fig. 1b, 1c, 6; Pl. 2,
fig. 6; Pl. 4, fig. 1b, 1c; Pl. 7, fig. 1b. **Indeterminable.**
- C. radiatus* Heer, Fl. foss. arct., II, 1, 1871, Pl. 2, fig. 2—5; Pl. 3,
fig. 4; Pl. 4, fig. 1a, 2—6; Pl. 5, fig. 1, 2; Pl. 6; Pl. 7, fig. 1a.
Pseudobornia ursina Nathorst.
- C. radiatus* Heer, Fl. foss. arct., II, 1, 1871, Pl. 3, fig. 2a; Pl. 9,
fig. 2b. **Bothrodendron.**
- C. radiatus* Heer, Fl. foss. arct., III, 1, 1874, Pl. 1, fig. 1, 3.
Calamites species.
- C. radiatus* Heer, Fl. foss. arct., III, 1, 1874, Pl. 1, fig. 2.
Indeterminable.
- C. radiatus* Wethered, Cotteswold Club, 1878, Pl. 2.
Indeterminable.
- C. radiatus* Feistmantel, Palaeontogr., Suppl. III, 1879, Pl. 24, fig. 1;
Pl. 25, fig. 3, 4. **Indeterminable.**
- C. radiatus* Rothpletz, Botan. Centralbl., I, 3. Gratis Beil., 1880,
Pl. 1, fig. 6, (? fig. 3). **C. roemeri** Goepp.
- C. radiatus* Rothpletz, l. c., Pl. 1, fig. 2, 4, 5.
Asterocalamites radiatus Bgt.
- C. radiatus* Rothpletz, l. c., Pl. 1, fig. 1. **Doubtful.**
- C. radiatus* Tenison Woods, Journ. and Proc. Roy. Soc. N.-S. Wales
XVI, 1888, Pl. 11, fig. 5; Pl. 12, fig. 7, 10. **Doubtful.**
- C. radiatus* Dawson, Geol. Hist. of plants, 1888, fig. 27.
Asterocalamites radiatus Bgt.
- C. radiatus* Hofmann et Ryba, Leitpflanzen, 1899, Pl. 1, fig. 3, 4.
Asterocalamites radiatus Bgt.
- C. (Bornia) radiatus* Schimper, Traité, I, 1869, Pl. 24, fig. 1—9.
Asterocalamites radiatus Bgt.
- C. (Bornia) radiatus* Schimper, Traité, I, 1869, Pl. 24, fig. 10.
Indeterminable.

- C. (Bornia) radiatus* Schmalhausen, Bull. Ac. Imp. St. Pétersbourg, XXV, 1877, Pl. 1, fig. 1, (? 2, 3). **Asterocalamites radiatus** Bgt.
- C. (Bornia) radiatus* De Koninck, Mém. Soc. Roy. de Liège, (2), VIII, Pl. 7, fig. 1. **Indeterminable.**
- C. raibelianus* Schenk. **Triassic.** ?
- C. ramifer** Stur.
- C. ramifer* Stur, Culmfl., II, 1877, Pl. 21, fig. 4. **C. cistiiformis** Stur.
- C. ramifer* Stur, Culmfl., II, 1877, Textfig. 15, 16, 17, ? 18. **Indeterminable.**
- C. ramifer* Lesq., Coalflora, I, 1879, p. 23. ? **C. carinatus** Sternb.
- C. ramifer* Lesq., Coalflora, III, 1884, Pl. 91, fig. 4, 4a. **Annularia?** stellata Schl.
- C. ramifer* Zeiller, Héraclée, 1899, p. 60, pars. **C. cistiiformis** Stur.
- C. ramifer* Zeiller, Héraclée, 1899, p. 60, pars. **Indeterminable.**
- C. ramosus* Artis, Anted. Phytol., 1825, Pl. 2 et Autt. 1) **C. carinatus** Sternb.
- C. ramosus* Roehl, Palaeontogr., XVIII, 1868, Pl. 1, fig. 4. **C. undulatus** Sternb.
- C. ramosus* Roehl, Palaeontogr., XVIII, 1868, Pl. 1, fig. 3. **Indeterminable.**
- C. ramosus* Grand' Eury, Loire, 1877, Pl. 2, fig. 4, 4'. **Indeterminable.**
- C. ramosus* Lesq., Coalflora, I, 1879—80, Pl. 1, fig. (? 2), 3. **Indeterminable.**
- C. ramosus* Lesq., Coalflora, III, 1884, Pl. 92, fig. 1—4. **Indeterminable.**
- C. ramosus* Renault, Cours, 1882, Pl. 24, fig. 8. **Indeterminable.**
- C. ramosus* Weiss, Steink. Calam., II, 1884, ? Pl. 2, fig. 3; Pl. 7, fig. 2. **C. paleaceus** Stur.
- C. ramosus* Kidston, Trans. Geol. Soc. Glasgow, VIII, 1886, Pl. 3, fig. 1. **Annularia.**
- C. ramosus* Zeiller, Valenciennes, 1886, Pl. 55, fig. 3. **C. paleaceus** Stur.
- C. ramosus* Weiss, Steink. Calam., II, 1884, Pl. 6; Pl. 8, fig. 1, 2, 4; Pl. 9, fig. 2. **Annularia.**

1) Those figures, which are not mentioned here, belong to *C. carinatus* Sternb.

- C. ramosus* Stur, Calam. Schatzl. Schicht., 1887, Pl. 12, fig. 5, 6; Pl. 12b, fig. 5, 6; Pl. 13, fig. 1—9; Pl. 14, fig. 3—5. **Annularia.**
- C. ramosus* Stur, Calam. Schatzl. Schicht., 1887, Textfig. 1, 2, 28, 32. **Indeterminable.**
- C. ramosus* Toula, Die Steinkohlen, 1888, Pl. 6, fig. 7. **Indeterminable.**
- C. ramosus* Hofmann et Ryba, Leitpflanzen, 1899, Pl. 1, fig. 8 (copied from WEISS, Pl. 7, fig. 2). **C. paleaceus** Stur.
- C. ramosus* Arber, Phil. Trans. Roy. Soc. London, B. CXCVII, 1904, Pl. 19, fig. 2. **? C. paleaceus** Stur.
- C. ramosus* Jongmans, Anleitung, I, 1911, fig. 113—115. **C. ramifer** Stur.
- C. ramosus* var. *rugosus* K. et J., Mededeel. Rijks Herbarium Leiden, N^o. 20, 1913, p. 38, Pl. 13, fig. 1, 2, 3. **C. carinatus** var. *rugosus* K. et J.
- C. rectangularis* Achepohl, Niederrh. Westf. Steink., 1883, Pl. 39, fig. 13. **? C. suckowi** Bgt.
- C. regularis* Sternberg, Versuch, I, 4, 1825, Pl. 59, fig. 1. **Indeterminable.**
- C. remotissimus* Andrae, Bot. Ztng, IX, 1851, p. 204, 211 (*C. distans* Roemer, 1843). **Asterocalamites radiatus** Bgt.
- C. remotissimus* Goeppert, Neues Jahrb. f. Mineral., 1847, p. 682. **Indeterminable.**
- C. remotus* Bgt. **Mesozoic.** **? Equisetites mougeoti** Bgt.
- C. remotus* Schloth., Petrefactenkunde, 1820, p. 399. No figure. **Indeterminable.**
- C. remotus* Eichw., Leth. ross., I, 1860, Pl. 14, fig. 2. **Indeterminable.**
- C. renaulti** K. et J. **nov. spec.**
- C. (Calamodendrea) rhizobola* G. E., Loire, 1877, Pl. 31; id., Gard, 1890, Pl. 17, fig. 2; SAPORTA et MARION, Evolution, Phanérog., I, 1885, fig. 12 B. **Indeterminable.**
- C. (Arthropitys) rochei* Renault, Autun et Epinac, II, 1896, Pl. 52, fig. 1—3; id., Notice sur les Calam., II, 1896, Pl. 7, fig. 1—3. **Anatomy (cf. C. gigas** Bgt.).
- C. roemeri* (Goepp.) Ett., Haiding. Natw. Abh., IV, 1, 1851, p. 81 (*Asteroph. roemeri* Goepp.). **? Sphenophyllum species.**
- C. roemeri** Goepp.
- C. roemeri* Roehl, Palaeontogr., XVIII, 1868, Pl. 1, fig. 7a. **C. undulatus** Sternb.
- C. rogersii* Bunbury. **Mesozoic.** **Equisetum rogersii** (Bunb.) Font.
- C. sachsei* Stur.

- C. sachsei* Stur, Calam. Schatzl. Sch., 1887, Pl. 2, fig. 2, 9, 10 and ? 7.
Indeterminable.
- C. sachsei* Stur, Calam. Schatzl. Sch., 1887, Pl. 2b, fig. 3.
Asterophyllites cf. longifolius Sternb.
- C. sachsei* Stur, Calam. Schatzl. Sch., 1887, Pl. 2, fig. 6, ? 8.
Palaeostachya gracillima Weiss.
- C. sachsei* Stur, Calam. Schatzl. Sch., 1887, Pl. 2, fig. 7.
? Palaeostachya ettingshauseni Kidst.
- C. sachsei* Stur, Calam. Schatzl. Sch., 1887, Pl. 9, fig. 3; Pl. 11, fig. 2, 3, 4, 5, 6.
Sphenophyllum.
- C. sachsei* Stur, Calam. Schatzl. Sch., 1887, Textf. 39.
Sphenophyllum cf. emarginatum.
- C. sachsei* Toulou, Die Steinkohlen, 1888, Pl. 11, fig. 2.
Sphenophyllum.
- C. sachsei* Toulou, Die Steinkohlen, 1888, Pl. 6, fig. 2.
Indeterminable.
- C. saussurii* Heer, Urwelt der Schweiz, 1867, Pl. 1, fig. 9 (Also in english and french translations, 1876 and 1872).
Fruktifikation?
- C. schatzlarensis* Stur, Calam. Schatzl. Sch., 1887, Pl. 13, fig. 10, 11.
C. sachsei Stur.
- C. schatzlarensis* Stur, Calam. Schatzl. Sch., 1887, Pl. 14b, f. 4.
C. cisti Bgt.
- C. schatzlarensis* Stur, Calam. Schatzl., Sch., 1887, Pl. 1, fig. 1, 2 (JONGMANS, Anleitung, I, 1911, fig. 147, 148).
C. undulatus Sternb.
- C. schimperi* Ett. **Triassic.**
- C. schlotheimi* Gutbier, Gaea v. Sachsen, 1843, p. 99. No figure. ?
- C. schoenleinii* Schenk. **Keuperian.**
- C. schulzi** Stur.
- C. schulzi* Stur, Calam. Schatzl. Sch., 1887, Pl. 7b, fig. 2; Pl. 14b, fig. 1; ? Pl. 6, fig. 3; ? Pl. 7, fig. 1, 3. **C. undulatus Sternb.**
- C. schulzi* Stur, Calam. Schatzl. Sch., 1887, Pl. 6, fig. 1, 2; Pl. 7, fig. 2, 4; Pl. 7b, fig. 1; Textfig. 20. **Indeterminable.**
- C. schulzi* Stur, Calam. Schatzl. Sch., 1887, Pl. 15, fig. 11; Textf. 24.
Sphenophyllum.
- C. schulzi* Toulou, Die Steinkohlen, 1888, Pl. 5, fig. 15.
Sphenophyllum.
- C. schulzi* Toulou, Die Steinkohlen, 1888, Pl. 6, fig. 6.
Indeterminable.
- C. schumanni* Stur, Calam. Schatzl. Sch., 1887, Pl. 14b, fig. 2.
C. goepperti Ett.

- C. schumanni* Stur, Calam. Schatzl. Sch., 1887, Pl. 14b, fig. 3.
Indeterminable.
- C. schützei** Stur.
C. schützei Zeiller, Valenciennes, 1886, Pl. 55, fig. 4.
C. schützeiformis typicus K. et J.
- C. schützei* Stur, Calam. Schatzl. Sch., 1887, Pl. 4, fig. 2, 3; Pl. 4b, fig. 1; Textfig. 38; ? Pl. 4, fig. 1; ? Textfig. 34; 37.
C. undulatus Sternb.
- C. schützei* Stur, Calam. Schatzl. Sch., 1887, Pl. 3, fig. 2, 2b; Textfig. 36, 37.
Indeterminable.
- C. schützei* Toula, Die Steinkohlen, 1888, Pl. 6, fig. 5.
Indeterminable.
- C. schützei* Zeiller, Héraclée, 1899, p. 61.
Indeterminable.
- C. schützei* Renier, Docum., 1910, Pl. 39. **C. undulatus** Sternb.
- C. schützei* Horwood, Journ. Linn. Soc., Bot., XXXIX, 1910, Pl. 18.
C. schützeiformis typicus K. et J.
- C. schützei* Horwood, Journ. Linn. Soc., Bot., XXXIX, 1910, Pl. 19.
Indeterminable.
- C. schützei* Jongmans, Anleitung, I, 1911, fig. 90, 91.
C. schützeiformis typicus K. et J.
- C. schützei* Jongmans, Anleitung, I, 1911, fig. 92.
C. schützeiformis intermedius K. et J.
- C. schützeiformis** K. et J. nov. species.
forma **typicus** K. et J.
forma **intermedius** K. et J.
forma **waldenburgensis** K.
- C. scrobiculatus* Schloth., Petrefactenk., 1820, Pl. 20, fig. 4; id., Merkw. Verstein., 1832, Pl. 20, fig. 4.
Indeterminable.
- C. semicircularis** Weiss.
- C. sessilis* (Presl) Ettingsh., Haiding. Natw. Abb., IV, 1, p. 76 (*Volkmannia sessilis* Presl).
?
- C. (Calamitina) solmsi* Weiss, Steink. Calam., I, 1876, Pl. 18, fig. 1.
C. goepperti Ett.
- C. steinhaueri** Sternb.
- C. (Arthropitys) stephanensis* Renault, Comentry, 1888—90, Pl. 54, fig. 1; id., Notice sur les Calam., III, 1898, Pl. 7, fig. 1; JONGMANS, Anl., I, 1911, fig. 95. **C. undulatus** Sternb.
- C. sternbergii* Eichw., Leth. ross., I, 1860, Pl. 14, fig. 3.
Indeterminable.
- C. stigmarioides* Goeppl., Wimmer's Flora siles., II, 1844, p. 197.
No figure (*Stigmatocanna volkmanniana* Goeppl.).
Doubtful (? *Asterocalamites radiatus* Bgt.).

- C. striatus* Stur, Akad. Wiss. Wien, LXXXIII, 1881, Pl. 1, fig. 3; Textfig. 1, 2, 3; id., Calam. Schatzl. Sch., 1887, Textf. 3, 4, 5. **Anatomy.**
- C. (Calamitea) striatus* Cotta, Dendrol., 1832, Pl. 14, fig. 1—4; Pl. 15, fig. 1, 2. **Anatomy.**
- C. (Calamitea) striatus* Bronn, Leth. geogn., I, 1837, 1852—54, Pl. 6, fig. 2a, b. **Anatomy.**
- C. (Calamitea) striatus* Petzholdt, Ueber Calam., 1841, Pl. 7, 8. **Anatomy.**
- C. (Calamodendron) striatus* Mougeot, Fl. Nouv. grès rouge Vosges, 1852, Pl. 5, fig. 1—4. **Anatomy.**
- C. (Calamodendron) striatus* Goeppert, Palaeontogr., XII, 1864—65, Pl. 30, 31. **Anatomy.**
- C. (Calamodendron) striatus* Schenk, in ZITTEL, Handbuch, II, 3, 1884, fig. 167. **Anatomy.**
- C. (Calamodendron) striatus* Renault, Plant. foss., 1888, fig. 23. **Anatomy.**
- C. (Calamodendron) striatum* Renault, Commentry, 1886—88, Pl. 54, fig. 5. **C. multiramis Weiss.**
- C. (Calamodendron) striatum* Renault, Commentry, 1886—88, Pl. 54, fig. 6—10; Pl. 74, fig. 13; Pl. 75, fig. 1, 2, 5, 6. **Anatomy.**
- C. (Calamodendron) striatum* Renault, Autun et Epinac, II, 1896, Pl. 58, fig. 1—5. **Anatomy.**
- C. (Calamodendron) striatum* Renault, Notice sur les Calam., III, Pl. 1, fig. 1—5; Pl. 7, fig. 5—8. **Anatomy.**
- C. (Calamodendron) striatum* Zeiller, Eléments, 1900, fig. 109. **Anatomy.**
- C. studeri* Heer, Flora foss. Helv., 1876, Pl. 21, fig. 1; JONGMANS, Anleitung, I, 1911, fig. 161. **Doubtful.**
- C. subcommunis* Stur, Akad. Wiss. Wien, LXXXIII, 1881, Pl. 1, fig. 4, 5; Textf. 15, 16; id., Calam. Schatzl. Sch., 1887, Pl. 16, fig. 5, 6; Textf. 18, 19. **Anatomy.**
- C. (Arthropitys) subcommunis* G. E., Loire, 1877, Pl. 30, fig. 6, 7. **Indeterminable.**
- C. subdubius* G. E., in KILIAN et RÉVIL, Contrib. géol. chaines inférieures des Alpes françaises, II, 1, 1908, p. 121 (Nomen). **?**
- C. suckowi** Bgt.
- C. suckowi* Bgt., Histoire, I, 1828, Pl. 15, fig. 1, (? 2, 3, 4, 5). **C. undulatus Sternb.**
- C. suckowi* Bgt., Histoire, I, 1828, Pl. 14, fig. 6; Pl. 16, fig. 1. **Indeterminable.**
- C. suckowi* Gutbier, Zwickau, 1835, Pl. 2, fig. 2. **Indeterminable.**

- C. suckowi* Kutorga, Verh. k. Russ. min. Ges. St. Petersburg, 1842, Pl. 2, fig. 1. **Indeterminable.**
- C. suckowi* Geinitz, Sachsen, 1855, Pl. 13, fig. 4. **C. undulatus Sternb.**
- C. suckowi* Phillips, Manual Geology, 1855, fig. 112. **Indeterminable.**
- C. suckowi* Goeppert, Palaeontogr., XII, 1864—65, Pl. 1, fig. 3. **? C. gigas Bgt.**
- C. suckowi* Goeppert, Palaeontogr., XII, 1864—65, Pl. 1, fig. 4. **Indeterminable.**
- C. suckowi* Heer, Urwelt d. Schweiz, 1865, fig. 5b. **Indeterminable.**
- C. suckowi* Dawson, Acad. Geology, 1868, fig. 163 A, A₁, A₃. **Indeterminable.**
- C. suckowi* Roehl, Palaeontogr., XVIII, 1868, Pl. 2, fig. 2. **Doubtful.**
- C. suckowi* Schimper, Traité, I, 1869, Pl. 18, fig. 1. **C. cf. infractus Gutb.**
- C. suckowi* Heer, Monde primitif, 1872, fig. 5b. **Indeterminable.**
- C. suckowi* Balfour, Palaeont. Botany, 1872, fig. 45a. **Indeterminable.**
- C. suckowi* Heer, Primaeval world, I, 1876, fig. 5b. **Indeterminable.**
- C. suckowi* Grand' Eury, Loire, 1877, Pl. 1, fig. 4, 5, 6. **Indeterminable.**
- C. suckowi* Heer, Urwelt d. Schweiz, 2. Aufl., 1879, fig. 17b. **Indeterminable.**
- C. suckowi* Lesq., Coalflora, I, 1879—80, Pl. 1, fig. 4. **Indeterminable.**
- C. suckowi* Dawson, Chain of Life, fig. 96a. **Indeterminable.**
- C. suckowi* Achepohl, Niederrh. Westf. Steink., 1881, Pl. 1, fig. 12; Pl. 16, fig. 5; Pl. 21, fig. 3. **? C. undulatus Sternb.**
- C. suckowi* Achepohl, Niederrh. Westf. Steink., 1881, Pl. 20, fig. 6; 1882, Erg. Bl. I, fig. 16. **Indeterminable.**
- C. suckowi* Renault, Cours, II, 1882, fig. 4, 6. **Indeterminable.**
- C. suckowi* Twelvetrees, Q. J. G. S., XXXVIII, 1882, Pl. 20, fig. 3. **Indeterminable.**
- C. suckowi* Weiss, Steink. Calam., II, 1884, Pl. 17, fig. 4, Textfig. on p. 135. **C. undulatus Sternb.**
- C. suckowi* Stur, Calam. Schatzl. Sch., 1887, Pl. 14, fig. 1; ? Pl. 1, fig. 3. **C. undulatus Sternb.**

- C. suckowi* Stur, Calam. Schatzl. Sch., 1887, Pl. 9, fig. 2. **Asterophyllites.**
- C. suckowi* Lesquereux, 3. Rept. Indiana, 1884, Pl. 5, fig. 5. **Indeterminable.**
- C. suckowi* Dawson, Geol. Hist. of plants, 1888, fig. 46a. **Indeterminable.**
- C. suckowi* Toula, Die Steinkohlen, 1888, Pl. 5, fig. 26. **Asterophyllites.**
- C. suckowi* Toula, Die Steinkohlen, 1888, Pl. 6, fig. 4. **Indeterminable.**
- C. suckowi* Renault, Plant. foss., 1888, fig. 12. **Indeterminable.**
- C. suckowi* Lesley, Dict. Foss. Penna, I, 1889, Textfig. on p. 105. **Indeterminable.**
- C. suckowi* Grand' Eury, Gard, 1890, Pl. 3 bis, fig. 24; Pl. 17, fig. 3. **Indeterminable.**
- C. suckowi* Sterzel, Plau. Grund, 1893, Pl. 10, fig. 1. **Doubtful.**
- C. (typ.) suckowi* Potonié, Lehrbuch, 1897, fig. 188, 189. **Indeterminable.**
- C. suckowi* Sterzel, Karbon Baden, 1907, Pl. 18, fig. 2; Pl. 19, fig. 1; Pl. 32, fig. 1; Pl. 57, fig. 2b—e, 3, 4, 5; Pl. 58, fig. 1, 2; Pl. 59, fig. 1. **Indeterminable.**
- C. suckowi* Sterzel, Karbon Baden, 1907, Pl. 57, fig. 2a. **C. undulatus Sternb.**
- C. suckowi* Zalessky, Bull. Com. géol. St. Pétersbourg, XXVI, 1907, p. 363, fig. 1. **Indeterminable.**
- C. suckowi* Schuster, Geogn. Jahreshfte, XX, 1908, Textbeil. L, fig. 1, 2. **Indeterminable.**
- C. suckowi* Arber, Fossil Plants, 1909, Pl. on p. 52. **Indeterminable.**
- C. suckowi* Jongmans, Anleitung, I, 1911, fig. 141. **C. undulatus Sternb.**
- C. suckowi* Jongmans, Anleitung, I, 1911, fig. 142. **C. haueri Stur.**
- C. suckowi* Jongmans, Anleitung, I, 1911, fig. 144. **C. approximatifformis Stur.**
- C. suckowi* Grand' Eury, Rech. géobot. forêts et sols fossiles, I, 1, 1912, Pl. 1, fig. 1, Textfig. 4, 5. **Indeterminable.**
- C. suckowi* Bgt. forma *cisti* Sterzel, Karbon Baden, 1907, Pl. 32, fig. 2; Pl. 68, fig. 4. **C. cisti Bgt.**
- C. suckowi* Bgt. var. *major* Bgt., in MURCHISON, Géol. de la Russie, 1845, II, 3, t. D, f. 1 a b. **C. gigas Bgt.**
- C. suckowi* Bgt. var. *major* Sterzel, Plau. Grund, 1893, Pl. 10, fig. 1. **Doubtful.**

- C. suckowi* Bgt. var. *undulatus* Weiss, Steink. Calam., II, 1884, Pl. 17, fig. 4. *C. undulatus* Sternb.
- C. suckowi* Bgt. var. *undulatus* Sterzel, Karbon Baden, 1907, Pl. 19, fig. 1. *C. undulatus* Sternb.
- C. sulcatus* Gutbier, Zwickau, 1835, Pl. 2, fig. 8, 8a. Indeterminable.
- C. sulcatus* Jaeger (cf. SCHIMPER, Traité, I, 1869, p. 284). Unknown to me.
- C. taitianus* K. et J. nov. spec.
- C. tenuifolius* (Sternb.) Ettingsh., Haid. Natw. Abh., IV, 1851, p. 76 (*Asterophyllites tenuifolius* Sternberg). *Asterophyllites longifolius* Sternb.
- C. tenuifolius* Ettingsh., Abh. k. k. geol. Reichsanst., I, 3, N^o. 4, 1852, Pl. 6, f. 5. *Asterophyllites* species.
- C. tenuifolius* Ettingsh., Radnitz, 1854, Pl. 2, fig. 2—3. *Asterophyllites grandis* Sternb.
- C. tenuifolius* Ettingsh., Radnitz, 1854, Pl. 2, fig. 1. Very doubtful.
- C. tenuifolius* Ettingsh., Radnitz, 1854, Pl. 3, fig. 4. *C. cisti* Bgt.
- C. tenuissimus* Goepp., Uebergangsgeb., 1852, Pl. 6, fig. 6—8. Indeterminable.
- C. tenuissimus* Ettingsh., Dachschiefer, 1866, Pl. 1, fig. 1, 2; Textfig. 2. Indeterminable.
- C. (Calamodendron) tenuistriatus* Dawson, Geol. Surv. Canada, 1871, Pl. 3, fig. 40; ROEMER, Leth. pal., 1876, Pl. 33, fig. 5; SAPORTA, Monde des Plantes, 1879, fig. 6, N^o. 1. Indeterminable.
- C. (Calamodendron) tenuistriatus* Bureau, Bull. Soc. des scienc. natur. de l'Ouest de la France, (3), I, 1911, t. 1, f. 9. Indeterminable.
- C. tessellatus* Frič, Arch. naturw. Landesdurchf. Böhmens, XV, 2, 1912, fig. 11. Indeterminable.
- C. transitionis* Achepohl, Niederrh. Westf. Steink., 1881, Pl. 1, fig. 6; Ergänz. Bl. I, 1882, fig. 1. Indeterminable.
- C. transitionis* Roemer, Palaeontogr., III, 1, 1850, Pl. 7, fig. 4. *Asterocalamites radiatus* Bgt.
- C. transitionis* Goeppert, Uebergangsgeb., 1852, Pl. 3, 4, 38. *Asterocalamites radiatus* Bgt.
- C. transitionis* Geinitz, Grauwackenf., 1853, Pl. 18, fig. 6, 7. *Asterocalamites radiatus* Bgt.
- C. transitionis* Geinitz, Hainich. Ebersd., 1854, Pl. 1, fig. 2, 7. *Asterocalamites radiatus* Bgt.
- C. transitionis* Sandberger, Verst. Rhein. Sch. in Nassau, 1856, Pl. 39, fig. 1, 1a. *Asterocalamites radiatus* Bgt.

- C. transitionis* Eichwald, Leth. ross., I, 1860, Pl. 13, fig. 1, 2.
Asterocalamites radiatus Bgt.
- C. transitionis* Dawson, Canad. Natur., VI, 1861, fig. 5.
Asterocalamites radiatus Bgt.
- C. transitionis* Richter, Zeitschr. D. Geol. Ges., XVI, 1864, Pl. 4, fig. 2b; Pl. 5, fig. 7; Pl. 6, fig. 2, 5, 6, 7.
Indeterminable.
- C. transitionis* Richter, Zeitschr. D. Geol. Ges., XVI, 1864, Pl. 5, fig. 8; Pl. 6, fig. 1, 3, 4.
Asterocalamites radiatus Bgt.
- C. transitionis* Ett, Dachschiefer, 1866, Pl. 1, fig. 4; Pl. 2; Pl. 3, fig. 2-5; Pl. 4, fig. 1, 3, 4; Textf. p. 87.
Asterocalamites radiatus Bgt.
- C. transitionis* Dawson, Acad. Geol., 1868, fig. 186.
Asterocalamites radiatus Bgt.
- C. transitionis* Ludwig, Palaeontogr., XVII, 1869, Pl. 21, fig. 4a-e.
Asterocalamites radiatus Bgt.
- C. transitionis* Roemer, Geol. v. Oberschles., 1870, Pl. 4, fig. 1-3.
Asterocalamites radiatus Bgt.
- C. transitionis* Dawson, Geol. Surv. Canada, 1874, Pl. 4, fig. 41.
Indeterminable.
- C. transitionis* Dawson, Geol. Surv. Canada, 1871, Pl. 4, fig. 42-46.
Asterocalamites radiatus Bgt.
- C. transitionis* Feistm., Zeitschr. D. Geol. Ges., XXV, 1873, Pl. 14, fig. 3, 4.
Asterocalamites radiatus Bgt.
- C. transitionis* Roemer, Leth. palaeoz., 1876, Pl. 37, fig. 1a, 1b.
Asterocalamites radiatus Bgt.
- C. transitionis* Weiss, Jahrb. Geol. Landesanst., 1885, Pl. 7, fig. 1, 2.
Asterocalamites radiatus Bgt.
- C. (Bornia) transitionis* Roemer, Palaeontogr., III, 1, 1850, Pl. 7, fig. 7.
Asterocalamites radiatus Bgt.
- C. (Bornia) transitionis* Bureau, Bull. Soc. des scienc. natur. de l'Ouest de la France, (3), I, 1911, p. 15, t. 2, f. 11.
Indeterminable.
- C. transitionis* von Roehl, Palaeontogr., XVIII, 1868, p. 15.
Indeterminable.
- C. transversalis* K. et J. nov. spec.
- C. trigonus* Kutorga, Beitr. z. Kenntn. der organ. Ueberreste des Kupfersandsteins, 1838, Pl. 5, fig. 3.
Indeterminable.
- C. tripartitus* Gutb., Gaea von Sachsen, 1843, p. 69.
C. brittsii White.
- C. tripartitus* Jongmans, Anleitung, I, 1914, fig. 99.
C. goepperti Ett.

- C. tripartitus* var. *distans* Weiss, Steink. Calam., II, 1884, p. 90.
Indeterminable.
- C. triquetrus* Schloth., Petrefactenk., 1820, p. 402, (Pl. 9, fig. 15);
id., Merkw. Verstein., 1832, Pl. 9, fig. 15.
No Calamites.
- C. tuberculatus* Andrae, Botan. Zeit., IX, 1851, p. 206, 212.
Doubtful.
- C. tuberculatus* Goeppert, Wimmer's Flora siles., 1844, p. 198 (*C. cannaeformis* Roemer, Harz, 1843, Pl. 1, fig. 7).
Asterocalamites radiatus Bgt.
- C. tuberculosus* Gutbier, Zwickau, 1835, Pl. 2, fig. 4, 4a, 14; Pl. 3b,
fig. 4. Indeterminable.
- C. tumidus* Sternb., Versuch, I, 4, 1825, p. XXVI.
Indeterminable.
- C. tumidus* β . *bohemicus* Sternb., Versuch, I, 4, 1825, p. XXVI. ?
- C. undulatus* Sternb.
- C. undulatus* Dawson, Geol. Surv. Canada, 1873, Pl. 8, fig. 70—73.
Indeterminable.
- C. vaginatus* Zeiller.
- C. (Calamodendrofluyos) valens* G. E., Loire, 1877, p. 296. No figure.
Indeterminable.
- C. vandergrachtii* K. et J. nov. spec.
- C. variabilis* Goepp., in BRONN, Index pal., 1848, p. 200. No figure.
Indeterminable.
- C. varians* Sternb., Versuch, II, 5, 6, 1833, Pl. 12.
C. undulatus Sternb.
- C. varians* Germar, Wettin u. Löbejün, 1847, Pl. 20, fig. 1.
C. undulatus Sternb.
- C. varians* Germar, Wettin u. Löbejün, 1847, Pl. 20, fig. 2, 3.
? C. undulatus Sternb.
- C. varians* Roehl, Westfalen, Palaeontogr., XVIII, 1868, Pl. 1, fig. 1.
C. undulatus Sternb.
- C. varians* Weiss, Jüngst. Steink. u. Rotlieg., 1871, Pl. 13, fig. 1, 2.
Indeterminable.
- C. varians* Weiss, Jüngst. Steink. u. Rotlieg., 1871, Pl. 13, fig. 7.
C. undulatus Sternb.
- C. varians* Weiss, Aus. d. Steink., 1881(82), Pl. 7, fig. 41.
C. undulatus Sternb.
- C. varians* Schenk, in RICHTHOFEN, China, IV, 1883, Pl. 34, fig. 1,
Indeterminable.
- C. varians* Schenk, in RICHTHOFEN, China, IV, 1883, Pl. 35, fig. 1.
C. undulatus Sternb.

- C. varians* Achepohl, Niederrh. Westf. Steink., Erg. Bl. II, 1883, fig. 24. **C. undulatus Sternb.**
- C. varians* Grand' Eury, Gard, 1890, Pl. 14, fig. 2, 3. **Indeterminable.**
- C. varians* Zeiller, Brive, 1892, Pl. 11, fig. 1. **C. undulatus Sternb.**
- C. varians* Renault, Autun et Epinac, II, 1896, Pl. 54, fig. 9; id., Notice sur les Calam., II, 1896, Pl. 9, fig. 9. **C. schützeiformis forma typicus K. et J.**
- C. varians* Hofmann et Ryba, Leitpflanzen, 1899, Pl. 1, fig. 1. **C. goepperti Ett.**
- C. varians* Hofmann et Ryba, Leitpflanzen, 1899, Pl. 1, fig. 2. **C. undulatus Sternb.**
- C. varians* Arber, Fossil Plants, 1909, Pl. on p. 54. **Indeterminable.**
- C. varians* Renier, Documents, 1910, Pl. 45; *C. (Calamitina) varians* Renier, Méthodes, 1908, fig. 17. **C. goepperti Ett.**
- C. varians* Jongmans, Anleitung, I, 1911, fig. 73; ARBER, Phil. Trans Roy. Soc. London, B. CCII, 1912, Pl. 13, fig. 15. **C. schützeiformis forma intermedius K. et J.**
- C. varians* Arber, Phil. Trans. Roy. Soc. London, B. CCII, 1912, Pl. 13, fig. 16. **? C. pseudogermanianus K. et J.**
- C. (Endocalamites) varians* Grand' Eury, Loire, 1877, Tabl. A IV. **Indeterminable.**
- C. varians abbreviatus* Weiss, Steink. Calam., II, 1884, Pl. 16a, fig. 10, 11. **C. goepperti Ett.**
- C. varians cruciatus* Kidston, Catalogue, 1886, p. 32. **C. cruciatus Sternb.**
- C. varians inconstans* Weiss, Steink. Calam., II, 1884, Pl. 16a, fig. 7, 8; Pl. 25, fig. 2. **C. goepperti Ett.**
- C. varians inconstans* Weiss, Steink. Calam., II, 1884, Textf. on p. 71. **C. undulatus Sternb.**
- C. varians inconstans* Kidston, Trans. Roy. Soc. Edinb., XXXV, 1889, Pl. 1, fig. 1, 1 A. **C. goepperti Ett.**
- C. varians cf. inconstans* Weiss, Steink. Calam., II, 1884, Pl. 28, fig. 4. **C. schützeiformis forma typicus K. et J.**
- C. varians insignis* Weiss, Steink. Calam., II, 1884, Pl. 1, fig. 1. **C. undulatus Sternb.**
- C. varians insignis* Weiss, Steink. Calam., II, 1884, Pl. 1, fig. 2—6. **Indeterminable.**
- C. varians insignis* Weiss, Steink. Calam., II, 1884, Pl. 28, fig. 1. **? C. undulatus Sternb.**

- C. varians insignis* Jongmans, Anleitung, I, 1911, fig. 75. **C. undulatus** Sternb.
- C. varians insignis* Jongmans, Anleitung, I, 1911, fig. 76. **C. sachsei** Stur.
- C. varians insignis* Jongmans, Anleitung, I, 1911, fig. 77, 78. **Indeterminable.**
- C. varians inversus* Weiss, Steink. Calam., II, 1884, Pl. 28, fig. 2; JONGMANS, Anleitung, I, 1911, fig. 79. **Indeterminable.**
- C. varians sachsei* Weis, Steink. Calam., II, 1884, p. 77. **C. sachsei** Stur.
- C. varians cf. schützei* Weiss, Steink. Calam., II, 1884, Pl. 21, fig. 5. **C. schützeiformis typicus** J. et K.
- C. varians cf. schützei* Weiss, Steink. Calam., II, 1884, Pl. 27, fig. 2. **C. schützeiformis forma intermedius** K. et J.
- C. varians semicircularis* Weiss, Steink. Calam., II, 1884, Pl. 16, fig. 6. **C. semicircularis** Weiss.
- C. varians cf. semicircularis* Ryba, Jahrb. k. k. Geol. Reichsanst., LIII, 1904, Pl. 16, fig. 3. **C. semicircularis** Weiss.
- C. variolatus* Goeppert, Uebergangsgeb., 1852, Pl. 5. **Asterocalamites radiatus** Bgt.
- C. verrucosus* Sternb., Versuch, II, 5, 6, 1833, Pl. 13. **No Calamites.**
- C. verticillatus** L. et H.
- C. verticillatus* Ettingsh., Haidinger's Natw. Abh., IV, 1, 1851, Pl. 8, fig. 1. **Indeterminable.**
- C. verticillatus* Williamson, Phil. Trans. Roy. Soc. London, CLXIV, 1874, Pl. 7, fig. 45. **C. germanianus** Goepp.
- C. verticillatus* Zeiller, Valenciennes, 1886, 88, Pl. 57, fig. 2. **Indeterminable.**
- C. verticillatus* Kidston, Proc. Yorksh. Geol. and Pol. Soc., XIV, 1901, Pl. 36, fig. 4. **C. semicircularis** Weiss.
- C. volkmanni* Ettingsh., Abh. k. k. Geol. Reichsanst., I, III, 4, 1852, Pl. 5, fig. 1—4; Pl. 6, fig. 1, 2. **Cordaianthus.**
- C. volkmanni* Ettingsh. mnsr., Hofmuseum, Wien. **C. suckowi** Bgt.
- C. voltzi* Bgt., Histoire, I, 1828, Pl. 25. **Indeterminable.**
- C. waldenburgensis* Kidston, Canonbie, Trans. Roy. Soc. Edinb., XL, 1903, p. 789; JONGMANS, Anleitung, I, 1911, fig. 65, 66. **C. schützeiformis waldenburgensis** K.
- C. wedekindi** Weiss.
- C. weissii* Sterzel, Plau. Grund, 1893, Pl. 8, fig. 7, 7 A. **Indeterminable.**

- C. westfalicus* Weiss mnsr. (cf. JONGMANS and KIDSTON, Pl. 31, fig. 4).
 ? *C. undulatus* (outer surface).
- C. williamsonis* Stur, Calam. Schatzl. Schicht., 1887, p. 178.
C. germanianus Goepf.
- C. zupanskyi* Stur, Jahrb. k. k. Geol. Reichsanst., Wien, XXVII, 1877, p. 373, 374. **Doubtful, no figures published.**
- C. species* Suckow, Acad. Elect. Theod. Palat., V, 1784, Pl. 16, fig. 2; Pl. 18, fig. 10 (? 11); Pl. 19, fig. 8, 9. **C. suckowi** Bgt.
- C. species* Suckow, Acad. Elect. Theod. Palat., V, 1784, Pl. 17, f. 5—7. **? C. cisti** Bgt.
- C. species* L. et H., Fossil Flora, I, 1832, Pl. 20. **Indeterminable.**
- C. species* L. et H., Fossil Flora, I, 1832, Pl. 21. **Indeterminable.**
- C. species* L. et H., Fossil Flora, I, 1833, Pl. 78. **C. suckowi** Bgt.
- C. species* L. et H., Fossil Flora, II, 1833, Pl. 96. **C. suckowi** Bgt.
- C. species* Gutbier, Zwickau, 1835, Pl. 3b, fig. 7, 8, 9. **Indeterminable.**
- C. species* Petzholdt, Ueber Calamiten, 1841, Pl. 1, fig. 1; Pl. 2, fig. 1, 2; Pl. 3, fig. 5—8; Pl. 4, fig. 1, 2; Pl. 5, fig. 1, 2; Pl. 6, fig. 1, 2, 3, 6. **Indeterminable.**
- C. species* Hitchcock, Final Rept. Geol. of Massachusetts, 1841, Pl. 24, fig. 3; Pl. 27, fig. 2, 3. **Indeterminable.**
- C. species* Auerbach, Bull. Soc. Imp. Moscou, I, 1844, Pl. 5, fig. 8, 9. **Indeterminable.**
- C. species* Goepfert, in TCHIHATCHEFF, Voyage scient. dans l'Altai, 1845, Pl. 26. **Indeterminable.**
- C. species* Dawson, Q. J. G. S., VII, 1851, fig. 1—3. **Indeterminable.**
- C. species* Lyell, Manual of Geology, 1855, fig. 478. **Arthrodendron** Scott.
- C. species* Dawson, Q. J. G. S., XV, 1859, Pl. 18, fig. 11, 12. **Anatomy.**
- C. species* Ludwig, Palaeontogr., X, 1, 1861, Pl. 2. **Calamostachys ludwigi** Carr.
- C. species* Schimper, Traité, I, 1869, Pl. 21. **Anatomy.**
- C. species* Ludwig, Palaeontogr., XVII, 3, 1869, Pl. 21, fig. 6. **Indeterminable.**
- C. species* Williamson, Mem. of the Lit. and Phil. Soc., Manchester, III, 1870, Pl. 7—9. **?**

- C. species* Weiss, Foss. Fl. Jüngst. Steink. u. Rothl., 1871, Pl. 14, fig. 3. **Indeterminable.**
- C. species* Higgins, Proc. Liverpool Nat. Field Club, 1871, Pl. 1, fig. 17. **Asterophyllites cf. charaeformis Sternb.**
- C. species* Dawson, Geol. Surv. Canada, 1871, Pl. 4, fig. 49. **Indeterminable.**
- C. species* Dawson, Q. J. G. S., XXVII, 1871, Pl. 9, fig. 22. **? *C. suckowi* Bgt.**
- C. species* Dawson, Q. J. G. S., XXVII, 1871, Pl. 9 (exc. fig. 22). **Anatomy.**
- C. species* Williamson, Phil. Trans. Roy. Soc. London, CLXI, 1871, fig. 2—18, 26, 29, 31—36, 39. **Anatomy.**
- C. species* Williamson, Phil. Trans. Roy. Soc. London, CLXI, 1871, Pl. 21, fig. 30. ***C. suckowi* Bgt.**
- C. species* Dawson, Q. J. G. S. London, XXVII, 1871, Pl. 9, fig. 18. **Indeterminable.**
- C. species* Weiss, Steink. Calam., II, 1884, Textf. on p. 121. ***C. cruciatus* Sternb.**
- C. species* Williamson, Phil. Trans. Roy. Soc. London, CLXIX, 1878, fig. 8—30. **Anatomy.**
- C. species* Williamson, Phil. Trans. Roy. Soc. London, CLXIX, 1878, Pl. 21, fig. 31. **Arthrodendron Scott.**
- C. (Calamodendron) species* Lesq., Coalflora, 1879, 80, Pl. 75, fig. 16. ***C. schützeiformis forma typicus* K. et J.**
- C. species* Schimper, in ZITTEL, Handbuch, II, 1880, fig. 124a, b. **Indeterminable.**
- C. species* Stur, Sitz. Ber. Akad. Wiss. Wien, LXXXIII, I, 1881, Textf. 10, 11, 12; id., Calam. Schatzl. Schicht., 1887, Textf. 12—14. **Anatomy.**
- C. species* Saporta et Marion, Evolution, Cryptog., 1881, fig. 56. ***C. suckowi* Bgt.**
- C. species (avec Macrostachya)* Saporta et Marion, Evolution, Cryptog., 1881, fig. 57. ***C. schulzi* Stur.**
- C. species* Twelvetrees, Q. J. G. S., XXXVIII, 1882, Pl. 21, fig. 2. **Indeterminable.**
- C. species* Williamson, Phil. Trans. Roy. Soc. London, CLXXIV, 1882, Pl. 33, fig. 19. **Anatomy.**
- C. species* Renault, Cours, II, 1882, Pl. 17, fig. 1. **? *Asterophyllites equisetiformis* Schl.**
- C. species* Achepohl, Niederrh. Westf. Steink., 1883, Pl. 40, fig. 7. **Indeterminable.**

- C. species* Hick and Cash, Proc. Yorksh. Geol. and Pol. Soc., N. S., VIII, 1883, Pl. 19. **Anatomy.**
- C. species* Weiss, Steink. Calam., II, 1884, Tafelerkl. zu Pl. 17, fig. 2, 3. **Indeterminable.**
- C. (Calamodendron) species* Lesq., Coalfl., III, 1884, Pl. 92, fig. 5. **Indeterminable.**
- C. (Calamodendron) species* Saporta et Marion, Evolution, Phanérog., I, 1885, fig. 18. **Indeterminable.**
- C. species* Wild, Manchester Geol. Soc., 1886, fig. A—D. **C. suckowi Bgt.**
- C. species* Stur, Calam. Schatzl. Schicht., 1887, Textf. 15. **Anatomy.**
- C. (Calamitina) species* Solms, Einleitung, 1887, fig. 42. **C. goepperti Ett.**
- C. species* Dawson, Geol. Hist. of plants, 1888, fig. 47, 50. **Indeterminable.**
- C. species* Williamson, Phil. Trans. Roy. Soc. London, CLXXIX, 1888, Pl. 8—11 (non Pl. 9, fig. 19). **Palaeostachya vera Seward.**
- C. species* Williamson, Phil. Trans. Roy. Soc. London, CLXXIX, 1888, Pl. 9, fig. 19. **Anatomy.**
- C. species* Renault, Commentry, 1888, Pl. 75, fig. 3, 4. **Anatomy.**
- C. species* Williamson, Phil. Trans. Roy. Soc. London, CLXXXI B, 1890, Pl. 15, fig. 20—22. **Anatomy.**
- C. species* Raciborski, Permok. Flora, Rozpraw Umiej. Akad. Krakowie, XXI, Pl. 1, fig. 3, 16. **Indeterminable.**
- C. species* Nathorst, K. Svenska Vetensk. Akad. Handl., XXVI, 4, 1894, Pl. 14, fig. 4. **Indeterminable.**
- C. species* Williamson et Scott, Phil. Trans. Roy. Soc. London, CLXXXV, B, 1904, Pl. 72, fig. 1—6; Pl. 73, fig. 7, 8, 9; Pl. 77, 78, 79; Pl. 80, fig. 21, 22. **Anatomy.**
- C. species* Williamson et Scott, Phil. Trans. Roy. Soc. London, CLXXXV, B, 1904, Pl. 86, fig. A—G. **C. suckowi Bgt.**
- C. (Calamodendron) species (Racines)* Renault, Autun et Epinac, II, 1896, Pl. 59, fig. 4, 5; Pl. 60, fig. 1, 2; id., Notice sur les Calam., III, 1898, Pl. 2, fig. 4, 5; Pl. 3, fig. 1, 2; Pl. 3bis, fig. 1. **Anatomy (roots).**
- C. species* Seward, Fossil Plants, I, 1898, fig. 56. **Indeterminable.**
- C. species* Seward, Fossil Plants, I, 1898, fig. 71—76, 78—81, 83, 84. **Anatomy.**

- C. species* Seward, Fossil Plants, I, 1898, fig. 77 (copied from G. E.:
Arthropitys parrani). **Indeterminable.**
- C. species* Seward, Fossil Plants, I, 1898, fig. 82. **C. suckowi Bgt.**
- C. species* Seward, Fossil Plants, I, 1898, fig. 86. **Anatomy (leaves).**
- C. species* Seward, Fossil Plants, I, 1898, fig. 101. **Indeterminable.**
- C. species* Scott, Studies, 1900, fig. 11; Ed. II, 1908, fig. 12. **Indeterminable.**
- C. species* Scott, Studies, 1900, fig. 4—7, 12—15; Ed. II, 1908, fig. 4—7, 13—16. **Anatomy.**
- C. species* Potonié, Silur u. Culmfl., 1901, fig. 53, 54, 56. **Indeterminable.**
- C. species* Kidston, Proc. Yorksh. Geol. and Pol. Soc., XIV, 1901, Pl. 34, fig. 2. **Indeterminable.**
- C. species* Kidston, Proc. Yorksh. Geol. and Pol. Soc., XIV, 1901, Pl. 36, fig. 1. **Asterophyllites longifolius Sternb.**
- C. species* Stopes, Annals of Botany, XVII, 1903, fig. 30—32. **Anatomy (roots).**
- C. species* Arber, Mem. and Proc. Manchester Lit. and Phil. Soc., XLVIII, 2, 1903, p. 11 (*Poacites cocoina* L. et H., Fossil Flora, II, 1833, Pl. 142b). **Indeterminable (Arber).**
- C. species* Stopes, Annals of Botany, XXI, 1907, fig. 1—4; Pl. 23. **Anatomy.**
- C. species* Yokoyama, Journ. Coll. Sci. Tokyo, XXIII, 8, Pl. 1, fig. 1, 2; Pl. 2, fig. 6; Pl. 5, fig. 3, 4, 5. **Indeterminable.**
- C. species* Sterzel, Karbon Baden, 1907, p. 410 (*Cyathopteris coronata* Sterzel, Oppenau, 1895, Pl. 11, fig. 7). **Indeterminable (Sterzel).**
- C. species* Arber, Fossil Plants, 1909, Pl. on p. 51. **Anatomy.**
- C. species* Arber, Proc. Yorksh. Geol. Soc., XVII, II, 1910, Pl. 13, fig. 1, 2. **Indeterminable.**
- C. species* Zalessky, Bull. Acad. imp. des Sciences de St. Pétersbourg, 1910, fig. 1, 2. **Anatomy.**
- C. species* Stopes, Ancient Plants, 1910, fig. 104. **C. sachsei Stur.**
- C. species* Compter, Zeitschr. für Naturwiss., Halle, LXXXIII, 1911, fig. 21—24. **Keuperian.** ?
- C. species* Gothan, Aus d. Vorgeschichte, 1912, fig. 49. **C. suckowi Bgt.**
- C. species* Kidston, Staffordshire, III, Trans. Roy. Soc. Edinburgh, I, 1914, Pl. 9, fig. 2. **Rhizomatic tuber of Calamites.**

C. species Kidston et Jongmans, Monograph, 1915, Pl. 38, fig. 3
(*C. wedekindi* Weiss, Steink. Calam., II, 1884, p. 89).

Calamites species.

C. species K. et J., Monograph, 1915, Pl. 90, fig. 1.

Calamites species.

C. species K. et J., Monograph, 1915, Pl. 139, fig. 1.

Calamites species.

C. species K. et J., Monograph, 1915, Pl. 52, fig. 1 (*C. verticillatus*
Zeiller, Valenciennes, 1886, Pl. 57, fig. 2).

Calamites species.

(Ausgegeben am 6. März 1915.)