

VALIDATION OF THE SPECIES OF *SEPTOBASIDIUM* (BASIDIOMYCETES) DESCRIBED BY JOHN N. COUCH

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ABSTRACT. Names of species and varieties first described as new by J.N. Couch in his monograph of *Septobasidium*, including those previously but invalidly proposed by other authors, which failed to be validated in 1938 for lack of a Latin description or diagnosis, are posthumously validated here by provision of translation into Latin of Couch's English descriptions. Holotypes, some isotypes and paratypes, and one neotype and isoneotype are designated here for these newly validated names.

RESUMEN. Aquí se validan póstumamente los nombres de especies y variedades nuevas descritas por J.N. Couch en su monografía de *Septobasidium* (1938); se incluyen los propuestos antes por otros autores, que no eran válidos por faltar una descripción latina. Se proveen traducciones al latín de las descripciones inglesas de Couch y se designan holotipos, algunos isotipos y paratipos, un neotipo y un isoneotipo.

KEY WORDS / PALABRAS CLAVE: Basidiomycetes, *Septobasidium*, heterobasidiomycetes, nomenclature.

In the Preface of his classical monograph of *Septobasidium*, John N. Couch, then Professor of Botany at the University of North Carolina, wrote: "When this work was started in 1926 about seventy-five species of *Septobasidium* had been named, but few of these had been adequately described and illustrated." However, when the monograph was published (Couch 1938) the species had been considerably augmented in number (from some 75 to 173 taxa), carefully illustrated and compared but those opening lines of his preface remained correct because Couch did not comply with the requirements of the International Code of Botanical Nomenclature to provide Latin descriptions for the new taxa he proposed (Article 36.1, St. Louis Code, Greuter *et al.* 2000) in his monograph (Couch 1938). The only exceptions are names published before the date established by the Code, 1st January 1935, for the species described in his "A monograph of *Septobasidium*. Part I. Jamaican species" (J. Elisha Mitchell Sci. Soc. 44, 1929).

The senior author researched the files of the Elisha Mitchell Science Society as well as those kept by the University of North Carolina Press on

the subject but failed to discover any typescript or manuscript materials indicating that there ever was a Latin description for the species, nor any statement of the author as to why such Latin descriptions were not published simultaneously or asserting a personal stance unequivocally and expressly contrary to comply with the Code. Couch mentions throughout the text some of the Code's principles which is evidence that he was aware of the requirements. He also translated from Latin into English many of the older descriptions so it obtains that he had a working knowledge of the Latin language sufficient to write generic and specific descriptions as he did in 1949 (Couch 1949). Therefore we have assumed that Couch's intentions were to produce Latin descriptions at some time in the future, possibly to include all the new taxa he had collected after 1938.

Throughout his publication, Couch adopted a number of "herbarium names" that were not formally published by their authors. Clearly, Couch accepted the species attached to those names, in a majority of cases with original specimens at hand. Those names are also validated here.

It is the purpose of this paper to complete Prof. Couch's work by translating his English descriptions into Latin and thus validating his names, now in wide use. Whenever possible, type information is given, and comments added, even for species of earlier authors that Couch included in his monograph. For all nomenclatural and practical purposes, the descriptions in this paper, and the names validated by the provision of Latin translations and designation of types are to be considered as Couch's (ICBN, St. Louis Code Art. 36, Ex. 3, Greuter *et al.* 2000).

Materials and methods

The book *The Genus Septobasidium* (Couch, 1938), its official day of publication was 16th. July 1938, as published by the University of North Carolina Press is the source of Couch's species names enumerated here. Types as conserved in the herbarium at Chapel Hill (NCU), North Carolina, with their many annotations in Couch's handwriting have served to confirm his intended use of new and old names. The exclamation mark "!" identifies specimens studied by the authors of the present paper. Texts authored by Couch, whether translated by us or not, are explicitly credited to him by the addition of "[Couch]".

No attempt is made here to discuss the systematics and phylogeny of the genus and its species as they appear in Couch's publication. Geographical names remain as cited by Couch from his specimens, with no attempt to modernization or correction, e.g. "China, Tonkin" instead of Vietnam, Tonkin. The only exceptions are some Central American locations.

The abbreviations of herbaria where type materials are located are the official, standardized ones in the eighth edition of *Index Herbariorum* (Holmgren *et al.* 1990). The collections of Patouillard and Burt materials at BPI and FH are accompanied by sheet numbers which may serve to distinguish them.

The validated specific names (indicated by *) are listed in alphabetical order and this constitutes the only variance from Couch's original arrangement of the taxa [page number in brackets]. The species names validly published by Couch in 1929 are preceded by ‡.

Septobasidium Patouillard

J. de Bot. 6: 61. 1892.

nomen conservandum

The generic name and concept of *Septobasidium* Pat. was preceded by *Glenospora* Berk. & Desm. (J. Royal Hort. Soc. 4: 243. 1849). Boedijn and Steinmann (1931) proposed *Septobasidium* for conservation against *Glenospora*, a proposal upheld by Couch (1938, p. 67) and supported by Donk (Bull. Bot. Gdns. Buitenzorg III, 17: 178. 1941) and Rogers (Farlowia 3: 476. 1949). The proposal was accepted by ballot by the Special Committee for Fungi (in Code 77, Mycologia 45: 316. 1953) and ratified by the Paris Congress (Taxon 4: 162. 1955). The conserved type of *Septobasidium* is *S. velutinum* Pat.

S. abnorme (Henn.) Höhnelt & Litsch. [287].

S. acaciae Sawada. [189]. Holotype: Formosa, Taihokuchō Shakukō, Sawada & Fiyikuro, Sept. 26, 1910, at NCU!

S. accumbens (Berk. & Br.) Bres. in Pat. [258]. Couch stated that this name was never published by Bresadola. However, Patouillard did publish Bresadola's species, discussed it at length and analyzed the illustration, thus validating the name (Bull. Soc. Myc. Fr. 41: 338 – 341, 1925). Isotype: Ceylon, Hautane, G. H. K. Thwaites coll., at NCU!

S. alatum Lloyd [108]. Isotype: Philippines, McGregor, Feb. 1913, Bureau of Science #20385 at NCU!. This is, according to Couch in an annotation of a specimen at NCU, a later synonym of *S. granulosum* Sydow (q.v.).

S. albidum Pat. [245]. Holotype at FH, FH-Pat. 1044, two collections as mentioned by Couch.

S. album Burt [295]. Included under notes to excluded species, it was later published as *Helicogloea alba* (Burt) Couch (Mycologia 41: 435.1949), which is the actual and correct name.

S. aligerum Petch [110]. Although validly published by Petch (Tr. Br. Myc. Soc. 12: 276, pl. 18, figs. 1, 2 pl. 19, figs. 1, 2. 1927) it was based on *Hymenochaete rameale* Berk. (J. Linn. Soc. 14: 68. 1873) and thus preceded by *Septobasidium rameale* (Berk.) Bres. in Petch (Tr. Br. Myc. Soc.

- 7: 34. 1921), which is the correct name for this species. Isotype: Ceylon, N. Ellya, J. Gardner, Jan 1847 at NCU!
- S. alni** Torrend [150]. Isotype: Portugal, on *Alnus*, Torrend 373 at NCU!
- * **S. alni** Torrend var. **brasiliense** Couch, var. nov. [153]. *Basidiocarpus resupinatus textura aspera brunneofuscus, saepe spinis dispersae, 10 cm quadr. latis, in sectione transversali 200 – 260 µm crassus, subiculatus, columnatus, stratosus. Hymenium, basidia et sporae ut in hac specie* [Couch]. Holotype: Brazil, São Leopoldo, Rick Dec. 16, 1937 at NCU.
- * **S. alni** Torrend var. **squamosum** Couch, var. nov. [153]. See J. Elisha Mitchell Sci. Soc. 51: 35. 1935. *Basidiocarpus resupinatus, sectione transversali tenuissimus, umbrinus vel brunneolus sed griseo-tinctus, margine determinato vel indeterminato. Probasidium sphaericum, 9 – 11.3 µm, basidium cylindricum, 4-cellulatum, 4–5 x 40 – 50 µm, sporae 3.4 – 4.2 x 15. 9 – 21 µm, leniter flexae, 3-septatae* [Couch]. Holotype: S. Carolina, St. Helena's Island, on *Liquidambar*, March 21, 1930, J. N. Couch 8479, at NCU. Couch suspected this taxon to be a hybrid between *S. alni* and *S. castaneum*.
- ‡ **S. alveolatum** Couch [216]. J. Elisha Mitchell Sci. Soc. 44: 253. 1929. Holotype is not at NCU. Isotype: Jamaica, Portland Gap, on *Psychotria*, Couch 8549, at BPI 268369.
- * **S. alveomarginatum** Couch, sp. nov. [158]. *Basidiocarpus resupinatus, ochraceus sed vinaceus deinde atrofuscus, in sectione transversali 450 - (550) – 625 µm crassus, margine determinato, albo, nitido, e partibus tribus compositus: subiculum ex hyphis albidis compositum, 25 – 50 µm crassum; aliquot columnae curtae, 25 – 60 x 60 – 80 µm; stratum superum 30 – 420 µm crassum, ex hyphis 3.8 – 4.4 µm latis, septatis, efibulatis, ramificatis, sub lente olivaceis dilutis. Hymenium 33 – 42 µm crassum, hyphis compactis, intricatis, 1.8 – 2.4 µm latis, apibus hyalinis. Probasidia 11.5 – (12.6) - 16 µm, subglobosa, basidia recta, 4-cellulata, 5.8 – 6.4 x 42 – 54 µm, Sterigmata brevia. Sporae n.v.* [Couch]. Holotype: Brazil, São Leopoldo, Rick, on *Citrus* sp., Oct. 13, 1932, U.N.C. no. 9364 at NCU!
- * **S. apiculatum** Couch, sp. nov. [106]. See J. Elisha Mitchell Sci. Soc. 51: 62. 1935. *Basidiocarpus resupinatus, sordide albus vel bubalino tingens, inconspicuus, superficiei leviter granulatus, in sectione transversali 250 – (275) – 550 µm crassus, stratosus. Hyphis 4 – 5 µm latis, septatis, septo constrictis, efibulatis. Probasidia tenuiuncinata, hyalina, ovoidea deinde in basidia elongata formantia. Basidia clavata, 6.8 – 8.4 x 23 – 32 µm, 3-cellulata. Sterigmata longa. Sporae 4.6 – 6.3 x 13 – 25 µm, elliptico-curvatae* [Couch]. Holotype: North Carolina, Chapel Hill, Couch 8422, on *Cornus amomum*, at BPI 268372.
- S. arachnoideum** (Berk. & Br.) Bres. [238]. Isotype: Ceylon, Habgalla, Thwaites 539, Feb. 1868 at NCU!
- S. arboreum** (Couch) Boedijn & B.A. Steinm. [131]. Bull. Jard. Bot. Buitenzorg III, 11: 168. 1931. Based on *Helicobasidium arboreum* Couch (J. Elisha Mitchell Sci. Soc. 44: 257. 1929). Holotype: J. N. Couch, Blue Mountains Peak Trail, Jamaica, June 1926 is not at NCU. Isotype at BPI 292617.
- ‡ **S. areolatum** Couch [88]. J. Elisha Mitchell Sci. Soc. 44: 248. 1929. No type material at NCU. Isotype at BPI 268373.
- S. atratum** Pat. [143]. Holotype at FH FH-Pat. 1054. Isotype: Guadeloupe, Morne Gemmier, on *Eugenia jambos*, coll. Duss 1836 at NCU!
- ‡ **S. atropunctum** Couch [190]. J. Elisha Mitchell Sci. Soc. 44: 251. 1929. Holotype: Jamaica, Cinchona, J. N. Couch, July 1926 not at NCU. Isotype at BPI 268376
- S. bagliettoanum** (Fr.) Bres. [241]. Authentic Bresadola material from Tuscany, on *Quercus*, May 11, 1908 at NCU!, cf. material at FH as FH-Pat. 1061.
- S. bakeri** Pat. [272]. Couch cites as the type a specimen from NY he annotated in Jan. 1929: "Philippines, Laguna, Los Baños, C. F. Baker 87" now at NCU! However, the holotype is at FH as

- FH-Pat. 1056, but the collection corresponds to *Baker 73* (of which there is a fragment at NCU annotated by Couch as “*S. bakeri* Pat. from Pat. H.73. On coccid colonies bamboo. Sept. 22, 1912. Los Baños, PI. Baker collection”).
- * *S. boedijnii* Couch, *sp. nov.* [198]. *Basidiocarpus resupinatus, maculas irregulares 2-5 - (-17) mm formans, bubalinus vel pallide ochraceus, margine supero determinato, infero indeterminato, in sectione transversali ca. 1 mm crassum, stratis tribus: subiculum, medulla columnata, stratus superus. Subiculum tenuissimum, 5 – 27 µm crassum, iuventutem albidum senectute fuscum, cribrosum. Columnae 500 – 900 µm longae, 10 – (20) – 40 µm crassae, rectae, ex hyphis 3 – 5 µm latis, pauci septatis, apicibus ramificatis. Stratum superum 70 – 170 (375 fide Boedijn et B.A. Steinm.) µm crassum, ex hyphis 3.8 – 5 µm latis, pallide brunneis, irregulariter textus. Hymenium 30 – 50 µm crassum, ex hyphis 2.2 – 4 µm latis, hyalinis, irregulariter textum vel substratosum. Probasidia 16- 19 (raro –33) longa, sphaerica, saepe obovoidea, ubi maturitate evacuantia. Basidia 4-cellulata, 8.8 – 9.3 x 32 – 38 µm, curvata. Sterigmata ?. Sporae 6 – 7.5 x 20 – 26 µm (fide Boedijn et B.A. Steinm. 1931) [Couch]. Holotype: Java, Tjibodas on *Fagraea obovata* leg. Boedijn, October 1929, at NCU!*
- S. bogoriense* Pat. ex Henn. in Warburg [213]. Isotype: Hortus Bogoriense on bark of living tree, June 3, 1898, E. Nyman coll., at NCU!
- S. bresadolae* Pat.[103]. Holotype at FH as FH-Pat. 1061. Isotypes: Brazil, São Leopoldo, Rick collection at NCU and at BPI 268387.
- S. burtii* Lloyd [168]. Holotype: Louisiana, near St. Martinsville, 1890, Langlois coll., at NCU!
- * *S. burtii* Lloyd var. *acerinum* Couch, *var. nov.* [171]. *Basidiocarpus resupinatus, crustaceus, cinnamomeus vel atrobrunneus, nodosus, superficialiter sinuoso fractus; subiculum determinatum, fimbriatum. Contextus sine columnis, in sectio transv. 0.6 mm crassus, 3-stratificatus, medulla laxe fibrosa, tecta. Probasidia persistentes. Haustoria spirarum irregularium.* [Couch]. Holotype: North Carolina, Chapel Hill, on bark of *Acer saccharinum*, Feb.28, 1930, J.N. Couch coll. #8438 at NCU!
- S. cabralii* Torrend [293]. Included in Couch’s “incompletely known species” as he had no access to the type material.
- S. canescens* Burt [107]. Isotype: California, Pasadena, on *Quercus*, June 15, 1914, A. G. Smith at NCU! Holotype at BPI 269280.
- S. capnodes* (Berk. & Br.) Bres. [286].
- S. carbonaceum* Pat. [289]. Holotype at FH as FH-Pat. 1062.
- S. carestianum* Bres. [155]. Part of holotype: Italy, on branches of *Salix*, det. Bresadola in 1897 at NCU! ex NY. Material in FH as FH-Pat. 1063 from Italy ex Bresadola, also FH-Burt 14.
- * *S. carestianum* Bres. var. *natalense* Couch, *var. nov.* [157]. *Basidiocarpus resupinatus, maculas irregulares ad 6 cm formans, iuventute avellaneas deinde cinnamomeas, superficiei sub lente pruinosa, margine determinato. Subiculum album, tenuissimum sed in maturitate stromaticum. Columnis incipientibus, medulla ex hyphis obliquis, ramificatis, pallide brunneis, 2.1 – 4.2 µm latis. Hymenium 30 – 63 µm crassum. Probasidia sphaerica, 11.3 – 15.1 µm, in senectute brunnea. Basidia longe cylindrica, apicem acuta, 4-cellulata, 5 – 6.7 x 62 – 71 µm. Sterigmata breviter ellipticae, flexae, 4. 2 – 5 x 21 – 23 µm* [Couch]. Holotype: Africa, Natal, P. Maritzburg, on *Citrus* coll. J. van der Vywer, May 19, 1932, # 26321 at NCU!
- S. castaneum* Burt [147]. Holotype: Near Montgomery, Alabama, R. P. Burke 20421 at NCU! annotated as “Part of type. Farlow H dist. by Dr. Burt. For photo.”
- S. cavarae* Bres. [173]. Isotype: Sardinia, on *Pistacia lentiscus* Oct. 1900, Cavara, ex herb. Bresadola, at NCU! At FH a specimen under FH-Pat. 1064.
- * *S. cervicolor* Couch, *sp. nov.* [182]. *Basidiocarpus resupinatus, maculas irregulares formans, brunneolas vel hinnuleas vel fuscas, margine determinato, superficiei laevi, in sectione transversali 500 – 800(1000) µm crassum, multistratosum.*

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- * *S. boedijnii* Couch, *sp. nov.* [198]. *Basidiocarpus resupinatus, maculas irregulares 2-5 - (-17) mm formans, bubalinus vel pallide ochraceus, margine supero determinato, infero indeterminato, in sectione transversali ca. 1 mm crassum, stratis tribus: subiculum, medulla columnata, stratus superus. Subiculum tenuissimum, 5 – 27 μm crassum, iuventutem albidum senectute fuscum, cribrosum. Columnae 500 – 900 μm longae, 10 – (20) – 40 μm crassae, rectae, ex hyphis 3 – 5 μm latis, pauci septatis, apicibus ramificatis. Stratum superum 70 – 170 (375 fide Boedijn et B.A. Steinm.) μm crassum, ex hyphis 3.8 – 5 μm latis, pallide brunneis, irregulariter textus. Hymenium 30 – 50 μm crassum, ex hyphis 2.2 – 4 μm latis, hyalinis, irregulariter textum vel substratosum. Probasidia 16- 19 (raro –33) longa, sphaerica, saepe obovoidea, ubi maturitate evacuantia. Basidia 4-cellulata, 8.8 – 9.3 x 32 – 38 μm, curvata. Sterigmata ?. Sporae 6 – 7.5 x 20 – 26 μm (fide Boedijn et B.A. Steinm. 1931) [Couch]. Holotype: Java, Tjibodas on *Fagraea obovata* leg. Boedijn, October 1929, at NCU!*
- S. bogoriense* Pat. ex Henn. in Warburg [213]. Isotype: Hortus Bogoriense on bark of living tree, June 3, 1898, E. Nyman coll., at NCU!
- S. bresadolae* Pat.[103]. Holotype at FH as FH-Pat. 1061. Isotypes: Brazil, São Leopoldo, Rick collection at NCU and at BPI 268387.
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- * *S. burtii* Lloyd var. *acerinum* Couch, *var. nov.* [171]. *Basidiocarpus resupinatus, crustaceus, cinnamomeus vel atrobrunneus, nodosus, superficialiter sinuoso fractus; subiculum determinatum, fimbriatum. Contextus sine columnis, in sectio transv. 0.6 mm crassus, 3-stratificatus, medulla laxe fibrosa, tecta. Probasidia persistentes. Haustoria spirarum irregularium.* [Couch]. Holotype: North Carolina, Chapel Hill, on bark of *Acer saccharinum*, Feb.28, 1930, J.N. Couch coll. #8438 at NCU!
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- S. capnodes* (Berk. & Br.) Bres. [286].
- S. carbonaceum* Pat. [289]. Holotype at FH as FH-Pat. 1062.
- S. carestianum* Bres. [155]. Part of holotype: Italy, on branches of *Salix*, det. Bresadola in 1897 at NCU! ex NY. Material in FH as FH-Pat. 1063 from Italy ex Bresadola, also FH-Burt 14.
- * *S. carestianum* Bres. var. *natalense* Couch, *var. nov.* [157]. *Basidiocarpus resupinatus, maculas irregulares ad 6 cm formans, iuventute avellaneas deinde cinnamomeas, superficiei sub lente pruinosa, margine determinato. Subiculum album, tenuissimum sed in maturitate stromaticum. Columnis incipientibus, medulla ex hyphis obliquis, ramificatis, pallide brunneis, 2.1 – 4.2 μm latis. Hymenium 30 – 63 μm crassum. Probasidia sphaerica, 11.3 – 15.1 μm, in senectute brunnea. Basidia longe cylindrica, apicem acuta, 4-cellulata, 5 – 6.7 x 62 – 71 μm. Sterigmata brevita. Sporae ellipticae, flexae, 4. 2 – 5 x 21 – 23 μm* [Couch]. Holotype: Africa, Natal, P. Maritzburg, on *Citrus* coll. J. van der Vywer, May 19, 1932, # 26321 at NCU!
- S. castaneum* Burt [147]. Holotype: Near Montgomery, Alabama, R. P. Burke 20421 at NCU! annotated as “Part of type. Farlow H dist. by Dr. Burt. For photo.”
- S. cavarae* Bres. [173]. Isotype: Sardinia, on *Pistacia lentiscus* Oct. 1900, Cavara, ex herb. Bresadola, at NCU! At FH a specimen under FH-Pat. 1064.
- * *S. cervicolor* Couch, *sp. nov.* [182]. *Basidiocarpus resupinatus, maculas irregulares formans, brunneolas vel hinnuleas vel fuscas, margine determinato, superficiei laevi, in sectione transversali 500 – 800(1000) μm crassum, multistratosum.*

- 300 – 600 μm ex hyphis 4.2 – 5.4 μm latis, crassitunicatis, pallide brunneis, apicem ramificans stratum superum formantia; stratum superum in sect. transv. 50 – 100 μm , hyphis 4.2 – 5 μm , gradatim angustatis, filiformis 2 – 3 μm latis. Probasidia sphaerica, 11.7 – 15.1 μm , germinans, maturitate evacuantia et basidium curvatum vel tortum formantia, 4-cellulata. Sterigmata longa. Sporae ellipticae, 8 – 25 μm , distaliter flexae [Couch]. Holotype: Philippines, Davao, Mindanao, Mt. Apo on *Clethra canescens*, Clemens 5313 at NCU!
- * ***S. cokeri*** Couch, *sp. nov.* [138]. *Basidiocarpus resupinatus*, maculas magnas formans, albus, regione marginale determinata, superficiei laevi, in sect. transv. 0.6 – 1.3 mm crassus, partibus tribus compositus: subiculum 40 – 70 μm crassum, ex hyphis 3 – 3.7 μm latis; columnae 18 – 185 x 370 – 510 μm , ex hyphis multiseptatis, septis contractis, crassitunicatis, intertextis, dispersis vel aggregatis, omnis ad basim cum hyphis curtis, hispido-erectis et crystalis circulatis. Hymenium in stratum superum, 25 – 50 μm crassum, e hyphis 2 – 3 μm latis, paraphysibus, probasidiis et basidiis. Probasidia crassitunicata (-2 μm), globosa, subglobosa vel plerumque obovoidea, 10 x 11 – 16 μm , aliquando 2-cellulato-pedicellata. Basidia longe cylindrica nonnumquam flexa, 4.4 – 6.2 x 40 – 55 μm , 4-cellulata, longe pedicellata ad probasidia vacua affixa. Sterigmata lateralia, brevia, 5 μm longa. Sporae ellipticae, curvatae, 3 – 3.7 x 14.8 – 22.4 μm [Couch]. Holotype: North Carolina, Chapel Hill, on *Quercus rubra*, Couch 10004, not at NCU. Isotype at BPI 268584.
- * ***S. conidiophorum*** Couch, *sp. nov.* [262]. *Basidiocarpus resupinatus*, fuscus vel atrobrunneus, velutinum vel fuliginosus, margine determinato, in sect. transv. 400 – 700 μm crassus, partibus duabus compositus: subiculum 60 – 300 μm crassum ex hyphis obscure brunneis vel aliquando hyalinis, 3.5 – 5 μm latis, compacte et intricate intertextis, et cellulis vesiculososis, crassitunicatis, hyalinis, 5.4 – 6.5 μm diam. Columnae nullae sed contextum ex hyphis atrobrunneis, crassitunicatis, rectis vel curvatis, septatis, irregulariter ascendens stratum superum, laxitextum formantia et hyphis hyalinis, tenuitunicatis, valde curvatis, apici concatenatis cellulis cylindratis vel cupiformis. Cellulae longiores quam latae conidia hyalina, 1.5 x 4 μm formantia [Couch]. Holotype: Florida, Canal Point, on *Citrus* sp., O. D. Link, Jan. 26, 1933 at FLAS as F7703.
- * ***S. cremeum*** Couch, *sp. nov.* [227]. See J. Elisha Mitchell Sci. Soc. 51: 46.1935. *Basidiocarpus resupinatus*, iuventute bubalinus deinde cinnamomeus, superficiei laevi deinde irregulariter fissurata, margine indeterminato, in sect. transv. 225 μm crassa, partibus tribus compositus: Subiculum \pm 33 μm crassum, ex hyphis hyalinis, septatis. Columnae curvae. Stratum superum 60 – 130 μm crassum. Hymenium 35 – 45 μm crassum, hyalinum, ex hyphis 2.2 – 3.5 μm latis, hyalinis, ramificatis, dense compactis, intricatis. Contextum ex hyphis septatis, 3.8 – 4.2 μm latis, efibulatis, sub lente ambarinis. Probasidia subglobosa, 8 – 9 μm latis. Basidia generaliter circinata, 4.2 – 5 x 35 – 40 μm , 4-cellulata. Sterigmata longa. Sporae 3.8 – 5 x 11.5 – 16.8 μm , suballantoideae [Couch]. Holotype: Florida, near Jacksonville, on *Liquidambar styraciflua*, J.N.Couch, March 11, 1932, NCU no. 9232, at BPI 268589.
- S. crinitum*** (Fr.) Pat. in Rick, Ann. Mycol. 4: 311. 1906. [252]. Holotype at FH as FH-Pat. 1065. Isotype: Brazil, São Leopoldo, on *Myrsine* sp., leg. Rick at NCU!
- * ***S. crustaceum*** Couch, *sp. nov.* [241]. *Basidiocarpus resupinatus*, avellaneus vel tabacinus, superficiei laevi, sub lente minute fissurata, tuberculata, margine determinato, contextum distinctum, 50 – 100 μm crassum. Contextum ex hyphis brunneis, intricatis, dense compactis textum. Probasidia sphaerica, 8.2 – 9.2 μm , germinantia basidium helicoideum vel valde curvatum, 5.6 – 6.3 x 28 – 34 μm , 4-cellulatum formantia. Sterigmata 8 – 10 μm longa. Sporae curvato-ellipticae, 4.2 x 14.7 – 21 μm . Probasidia, basidia multi oleagineo-vacuolata [Couch]. Holotype: Australia, North Queensland, on lemon, with *S. bogoriense* and *S. aligerum*, July 17, 1936 at NCU! There are also two specimens from Argentina, San Isidro, Aug. 1936, on *Cupressus* with *Diaspis*, annotated by Couch as representing this species which are, however, *S. cupressi*.

- * *S. cupressi* Couch, *sp. nov.* [225]. *Basidiocarpus resupinatus, minutus, foliicolus, bubalinus, flocculosus, margine determinato, in sect. transv. 200 – 350 μm crassus, e partibus tribus compositus: subiculum album, 20 – 40 μm crassum ex hyphis 3 – 4.2 μm latis, hyalinis, irregulariter inflatis, septatis, pauce ramificatis; columnae vel caespes ex hyphis hyalinis, subiculo similis; stratum superum ex hyphis laxitextis, hyalinis, tenuetunicatis, 3 – 3.5 μm latis. Probasidia globoso-obovata, hyalina, 7.5 – 10 x 13 – 15 μm, germinantia basidium elongatum formantia. Basidia 5 – 6 x 28 – 33 μm, 2-cellulata. Sporae elliptico-curvatae* [Couch]. Holotype: Argentina, Buenos Aires, on *Cupressus* sp., Grodsinsky, at NCU!
- S. curtisii* (Berk. & Desm.) Boedijn & B. A. Steinm. [164]. Of wide distribution, this taxon is erroneously reported by Couch from the Caribbean: “Guadeloupe, near San José, on *Erythrina*, leg. Conder”. The specimen is from “Guadalupe, near San José, Costa Rica”, and is also contained in the Patouillard herbarium at FH (FH-Pat. 1708, with *S. leprieurii*) and was recorded by A. Tonduz and O. Jiménez in their unpublished ms. Hongos de Costa Rica. I. Determinavit Cl.N. Patouillard, collegit A.Tonduz et O. Jiménez (1908-1914), in the library of the senior author.
- This name is based on *Glenospora curtisii* Berk. & Desm. (J. Roy. Soc. Hort. 4: 255. 1849) and later as *G. curtisii* Berk. & M.A.Curtis in Berk. (Grevillea 4: 161. 1876). Despite its wide geographical distribution and the familiar name, the correct name for this species seems to be *S. ramorum* (Schwein.: Fr.) Donk (Taxon 7: 164. 1958), a name based on *Racodium ramosus* Schwein. in Schr. Naturfr. Ges. Leipzig 1: 131. 1822, *Oedemium ramorum* (Schwein.) Fr. (Syst. mycol. 3(2): 345. 1832, *ramorum* in error).
- S. dictyodes* (Berk. & Br.) Pat. [92]. Isotype: Ceylon, Central Province, Thwaites 1027, Dec. 1868 at NCU! Holotype at FH as FH-Pat. 1066.
- * *S. elatostemae* Couch, *sp. nov.* [263]. *Basidiocarpus resupinatus, hypophyllus, minutus, gregarius, pulvinatus. Superficie laevi vel minute granulosa, atrobrunnea, margine vegetativo in subiculo indeter-*
- terminato, in strato supero determinato, in sect. transv. ca. 1 mm crassus, partibus tribus indistinctis: subiculum ex hyphis pallide brunneis vel hyalinis, 2.2 – 4 μm latis, pluriramificatis anastomosans. Stratum superum ex hyphis 3 – 4 μm latis, atrobrunneis. Probasidia, basidia n.v. Conidiophora septata, elongata, conidia 3-cellulata, crassitunicata, fusca, formantia* [Couch]. Holotype: Philippines, Mindanao, Mt. Apo, on leaves of *Elatostema*, Clemens 5622 at NCU!
- * *S. ficicolum* Pat. *ex Couch, sp. nov.* [167]. *Basidiocarpus resupinatus, tenuis, brunneus. Regione marginale in subiculo determinata, inconspicue caespitosa, in strato supero irregulariter fimbriata. Basidioma in sect. transv. 250- 370 μm crassa e partibus tribus composita: subiculum tenuissimum, 12 – 30 μm crassum, contextum columnatum (columnae 50 – 210 x 70 – 90 μm) vel vallumnatum. Contextum ex hyphis 2.1 – 2.8 – 4 μm latis, rectis, pauce ramificatis. Probasidia sphaerica, 8. 4 – 12.6 μm. Basidia longe cylindrica, 4. 6 – 5.2 x 52 – 58 μm, 3-septata. Sterigmata ca. 4 μm longa. Sporae ellipticae, 4 – 4.3 x 14.8 – 17 μm, distaliter pauce curvatae* [Couch]. Holotype: Philippines, Luzon, Mt. Maquiling, on *Ficus* sp., Sept. 30, 1920, J. Leburnas 10243, at NCU! Isotype at FH as FH-Pat. 1067.
- * *S. filiforme* Couch, *sp. nov.* [205]. See J. Elisha Mitchell Sci. Soc. 51: 49. 1935. *Basidiocarpus resupinatus, effusus, iuventute albus deinde sepiaceus, maculam magnam formans. Basidioma in sect. transv. 800 – 1000 μm crassa e partibus tribus composita: subiculum album, 20 – 50 μm crassum, ex hyphis tenuitunicatis 2 – 3.2 μm latis, septatis, efibulatis. Columnae ex hyphis 3.2 – 4.4 μm latis, ramificatis, raro septatis. Hymenium 42 – 60 (raro 90) μm crassum, ex hyphis 3 μm latis. Probasidia obovoidea, 7.7 – 11.8 x 14 – 23 μm. Basidia 4 – 5 x 28 – 40 μm, 4-cellulata, helicoidea. Sterigmata 20 – 30 μm. Sporae hyalinae, ellipticae, curvatae, mucronatae, 3.4 – 4 x 13 – 21 μm* [Couch]. Holotype: Couch 9179 from Mecklenburg County, Virginia, July 1927, at NCU. Isotype at BPI 268663.
- S. fisso-lobatum* Lloyd [243]. Based on *Hymenochaete fissolobata* P. Henn. (Hedwigia 43:

179. 1904) and distributed as # 41 in the exsiccatae of *Mycotheca Brasiliensis*. The correct citation is: *Septobasidium fisso-lobatum* (P. Henn.) Lloyd.
- S. flavo-brunneum** Boedijn & B. A. Steinm. [248]. Isotype: Java, Tjikadjang, on *Erythrina*, Feb. 1930, Prillwitz coll. at NCU!
- S. foliicolum** Torrend [293]. Included by Couch in his "incompletely known species" as he had had no access to the type material.
- * **S. formosense** Couch, *sp. nov.* [239]. *Basidiocarpus resupinatus, tenuis, indefinitus, brunneus. Subiculum roseo-bubalinus, indeterminatus, in sect. transv. 10 – 25 µm crassum, ex hyphis pallidissime brunneis, 3 – 5 µm latis, probasidiis, basidiis et conidiophoris. Stratum superum 400 – 500 µm crassum. Probasidia sphaerica, 9.6 – 11.7 µm, hyalina, plerumque pedicellata, in maturitate unilateraliter crassitunicata, evacuantia. Basidia curvata vel helicoidea, 4-cellulata, 5.4 – 7 x 33 – 42 µm. Conidiophora ex hyphis brunneis elongatis, 20 – 50 x 200 – 500 µm, 6-12-cellulatis. Sporae ut videtur nulla* [Couch]. Holotype: Formosa, Trail to Rengichi from Gojyo, on *Citrus* sp., March 13, 1928, R. K. Beattie coll. at BPI 268667. Isotype at NCU!
- * **S. fragile** Couch, *sp. nov.* [196]. *Basidiocarpus resupinatus, sepiaceus, minute pulveraceus, sub lente minute alveolatus, in sect. transv. 40 – 150 (-700) µm crassus, regione marginale indeterminata. Subiculum indeterminatum, diffusum; contextum ex hyphis 4.2 – 6.7 µm latis, laxitextum. Probasidia sub- vel sphaerica 10 – 12.6 µm diam., hyalina. Basidia cylindrica, 5.2 – 6.3 x 40 – 50 µm, aliquando pauciter flexa. Sporae ?* [Couch]. Holotype: Jamaica, Blue Mts., Hardware Gap, on deciduous tree, July 1926, J. N. Couch 8517 at NCU!
- S. fumigatum** Burt [180]. Holotype: S. Carolina, Gourdin, on *Acer rubrum*, Nov. 4, 1914, C. J. Humphrey 2588 at NCU! Isotype 268701 at BPI. Paratype: Alabama, near Montgomery, R.P. Burke 50, May 1916 at BPI 268693.
- * **S. fusco-cinereum** Bresadola *ex Couch, sp. nov.* [83]. *Basidiocarpus resupinatus, griseobrunneus-brunneus, regione marginale determinata, albidula. Basidioma e partibus tribus composita. Probasidia ut videtur nulla. Basidia longe cylindrica, 8 – 11.7 x 37 – 50 µm, 1-septata (2-cellulata). Sterigmata lateraliter, 46 µm longa. Sporae 6.7 x 25 µm, proximaliter ampliatae, distaliter acute flexae* [Couch]. Holotype: Brazil, São Leopoldo, Rick, Oct. 1905 at FH as FH-Pat. 1102, isotype at NCU!
- S. fusco-violaceum** Bres. [224]. Isotypes: Poland, on *Salix cinerea* at NCU!, FH as FH-Pat. 1071.
- * **S. fuscum** Couch, *sp. nov.* [191]. See J. Elisha Mitchell Sci. Soc. 51: 15. 1935. *Basidiocarpus resupinatus, brunneus vel fuscus, regione marginale indeterminata. Basidioma in sect. transv. 125 – 200 µm crassa, e partibus tribus composita. Subiculum ex hyphis 4.2 – 5.8 µm latis. Contextum ex hyphis erectis. Stratum superum 60 – 85 µm crassum, ex hyphis 2.2 – 3.5 µm latis, ramificatis apicem curvatis. Probasidia sphaerica vel sub-sphaerica, 10 – 12.6 µm. Basidia cylindrica, 4.2 – 5.4 x 35 – 40 µm, 4-cellulata. Sterigmata 4 – 5 µm longa. Sporae 4 – 5 x 6 – 13.4 µm, ellipticae, curvatae* [Couch]. Holotype: Mississippi, near Pascagoula, Couch 9192, at FLAS F7657. Isotypes at BPI 268674 and 268675.
- S. galzinii** Bourdot [160]. Possibly a fragment of holotype: France, l'Aveyron, on *Calluna vulgaris* and *Erica cinerea*, Galzin, June 9, 1913 and May 12, 1914, Bourdot's herbarium no. 20212 and 20221 at NCU! FH as FH-Pat. 1072.
- S. gossypinum** Pat. [234]. Holotype at FH as FH-Pat. 1073. Isotype: China, Cho Ganh, Tonkin, on branches of liana, M. Petelot 715, Nov. 1923 at NCU!
- * **S. grandispinosum** Couch, *sp. nov.* [154]. *Basidiocarpus resupinatus, compactus, ex albo ad avellaneum vel brunneum, regione marginale determinata, fimbriata vel pectinata, superficiei spinifera (spinae dispersae vel aggregatae, 1 x 1 – 1.5 mm, acutae) vel laevi tunc spinae nullae. Basidioma in sect. transv. 1 – 1.5 mm crassa, aliquando stratosata. Subiculum album incipientem, non continuum, ex rhizomorphis et hyphis mycelialibus reptantis deinde erectis constatum. Contextum ex hyphis hyalinis vel brunneis, pluri-*

- ramificatis, crassitunicatis, 4 – 4.2 µm latis, intricatis. Stratum superum ex hyphis 2.8 – 3.5 µm latis, dense compactis, pluriramificatis. Probasidia plerumque subglobosa, 12.6 – 18 µm diam. Basidia longe cylindrica, 5.4 – 7.5 x 54 – 68 µm, recta sed leviter flexa, 4-cellulata, plerumque pedicellata ad probasidia adnexa. Sterigmata lateralía, brevía. Sporae unilateraliter applanatae vel concavae, e medio incrassatae, 4.5 – 5.4 x 20 – 22 µm [Couch]. Holotype: S. Africa, Transvaal, near Pretoria, on *Gymnosporia buxifolia*, L. Kresfelder, March 1925 at NCU!*
- * ***S. grandisporum*** Couch, *sp. nov.* [79]. See J. Elisha Mitchell Sci. Soc. 51: 72. 1935. *Basidiocarpus resupinatus, atrobrunneus, regione marginale determinata. Basidioma in sect. transv. ca. 2.5 mm crassa e partibus duobus composita. Subiculum nullum. Contextum ex rhizomorphis intricatis et hyphis pluriramificatis, septatis, efibulatis, 3 – 4.2 µm latis. Hymenium 150 – 250 µm crassum ex hyphis hyalinis vel pallide brunneis, ramificatis, 3 – 3.5 µm latis. Probasidia subsphaerica, 12 – 17 µm. Basidia longe cylindrica, distaliter inflata, 8.4 – 9.6 x 46 – 56 µm. Sterigmata una, apicale, 8 – 22 µm. Sporae ellipticae, 12.6 – 17 x 29 – 32 µm, irregulariter septatae, hyalinae deinde pallide brunneae [Couch]. Holotype: S. Carolina, about 30 m N of Charleston, on *Cornus florida*, Else Couch coll. U.N.C. no. 8465 at NCU!, isotypes at FLAS F7658, at BPI 268676 & 268677.*
- S. granulorum*** Sydow [121]. Isotype: New Guinea, Sepik Expedition, Felspize, coll. C. Ledermann 12983 at NCU ex B, and see *S. alatum* Lloyd.
- * ***S. griseopurpureum*** Couch, *sp. nov.* [105]. *Fungus resupinatus, griseo-atropurpureus, cum soredia lichenes viridi tinctus, superficiei multifissurata, margine determinata. Basidioma in sect. transv. 200 – 550 µm crassa, e partibus tribus composita: Subiculum ex hyphis atrobrunneis, crassitunicatis, plerumque septatis, 3 – 6.3 µm latis, laxitextum. Contextum ca. 85 µm crassum, ex hyphis erectis, 3.5 – 6.3 µm latis, laxitextum. Probasidia numerosa, e latere et apice hypharum generativarum exorientia, plerumque aggregata, sphaerica, 9.5 – 11.7 µm diam., hyalina deinde fuscatis, minutissime aspere tunicatis, in maturitate evac-*
- uantia basidium formantia. Basidia clavata, 2-cellulata, recta nonnumquam curvata, 6 – 6.3 x 30 – 33 µm, distaliter incrassata. Sterigmata ca. 2.8 x 8.4 µm. Sporae hyalinae, 4.2 – 5 x 15.9 – 18 µm, pauce curvatae [Couch]. Holotype: S. Africa, P. van der Bijl in Lloyd collection 39226, at NCU!*
- S. griseum*** Couch, *sp. nov.* [98]. *Basidiocarpus resupinatus, extensus, in sicco pallide murinus, superficiei minute et copiose pustulata, minute granulosa vel pulverata, quasi laevi, raro fissurata, margine indeterminata. Basidioma 1- 1.3 mm crassa, e partibus tribus constata. Subiculum ex hyphis 2 – 4.2 µm latis, atrobrunneis, rhizomorphis anthracinis et hyphis arachnoideis gracilioris; contextum columnatum ex hyphis erectis, atropurpureis, apici ramificatis stratum superum formantia. Stratum superum 80 – 170 µm crassum, ex hyphis brunneis ad apicem hyalinis, incrustatis. Probasidia 10 – 12 µm diam. Basidia clavata, distaliter incrassata, 2-cellulata, ca. 8 x 25 µm [Couch]. Holotype: Costa Rica, Limón, Finca Castilla, July 25, 1936, C. W. Dodge & V. F. Georger Dodge 9351 at NCU!*
- * ***S. hakgalanum*** Couch & Petch, *sp. nov.* [142]. *Basidiocarpus resupinatus, rufobrunneis vel sepiaceus, superficiei sinuosa, margine bubalino-vinacea, determinata. Basidioma in sect. transv. 700 – 1000 µm crassa e partibus tribus composita. Subiculum 160 – 220 µm crassum, ex hyphis 4 – 4.2 µm latis, brunneis, dense compactis textum. Contextum ex hyphis hyalinis, ca. 3 µm latis, erectis, non ramificatis, nonnumquam incrustatis; columnae 40 – 90 x 250 – 450 µm ex hyphis brunneis, 4.2 – 5 µm latis, compactis, intricatis constatum. Stratum superum 60 – 160 µm, 4.2 – 5 µm latis, intricatis, densitextum. Hymenium indistinctum. Probasidia subglobosa vel globosa, 15 – 20 µm diam., evacuantia et basidium elongatum formantia. Basidia longe cylindrica, 5.8 – 7.1 x 68 – 84 µm, 4-cellulata, cellula apicale acuta. Sterigmata 5 – 6 µm longa. Sporae hyalinae, 4.2 – 5 x 25 – 27 µm, ellipticae, leviter flexae [Couch]. Holotype: Ceylon, Hakgala, April 1919, T. Petch coll., at NCU!*
- S. henningsii*** Pat. ex P. Henn. in Warburg [243]. Holotype at FH as FH-Pat. 1074. Isotype: Java,

Gedeh, about 2000 m elevation, July 17, 1898, E. Nyman coll. ex B, at NCU! Couch indicated the location of the type as Berlin but, as with several other such cases, the specimens have not been returned and remain at NCU.

- * ***S. hesleri*** Couch, *sp. nov.* [117]. See J. Elisha Mitchell Sci. Soc. 51: 54. 1935. *Basidiocarpus resupinatus, pallide vinaceo-griseus deinde tabacinus, superficiei praecipue floccosa, regione marginale determinata vel indeterminata aliquot columnata vel inflato-fimbriata. Basidioma in sect. transv. 250 – 400 µm e partibus tribus instructa. Subiculum 12 – 20 µm crassum, ex hyphis erectis (ca. 40 µm altis), incrustatis, hyalinis, raro ramificatis. Columnae 30 – 140 µm crassae, 100 – 190 µm altae. Stratum superum 40 – 100 µm crassum. Hymenium 30 – 40 µm crassum ex hyphis subhyalinis praecipue dichotomo-furcatis, 2.8 – 3.2 µm latis. Stratum superum 40 – 100 µm crassum. Sub-hymenium ex hyphis brunneis, ramificatis, 3 – 4.2 µm latis. Probasidia ut videtur nulla. Basidia helicoidea, 4.5 – 5.8 x 32 – 38 µm, 4-cellulata. Sterigmata angusta. Sporae 5 – 6.3 x 13 – 18 µm [Couch]. Holotype: Near Gatlinburg, Tenn., on *Carpinus caroliniana*, Hesler coll., at FLAS F7659, isotypes at BPI 268680 and 269368.*
- * ***S. heveae*** Couch, *sp. nov.* [149]. *Basidiocarpus resupinatus, atrobrunneus vel atrogriseus vel anthracinus. Superficiei sinuosa, fissurata, perforata, tuberculata, fragilis, regione marginale ex inconspicue rhizomorphis. Basidioma in sect. transv. 0.5 – 2 mm crassa e partibus duabus composita: Stratum inferum ex rhizomorphis mycelialibus, ramificatis, nigris, horizontalis deinde erectis columnatis, hyphis rectis, compactitextis, ramificatis, 3.7 – 5.4 µm latis. Stratum superum 100 – 600 µm crassum, stratosum, ex hyphis flexis, brunneis, apicaliter hyalinis, constatum. Probasidia ovoidea, 9. 4 – 12.6 x 12.6 – 16.8 µm, in maturitate evacuantia basidium cylindricum, 6 – 6.3 x 29 – 38 µm. 4-cellulatum formantia. Sterigmata 4.2 – 4.8 µm. Sporae 3.6 – 4.2 x 12.6 – 13.4 µm, ellipticae, curvatae [Couch]. Holotype: Brazil, Rio Jurá, on *Hevea brasiliensis*, no.2729 ex B, at NCU!*
- S. humile*** Raciborski [228]. Holotype: Java, near base of Mt. Pangerango on western side above Tjitwruk, on underside of leaves of *Tetranthera* sp. Raciborski coll. at NCU! This specimen is annotated “for photo” and is undoubtedly authentic Raciborski material. Two other collections were received from v. Höhnel. See also Oberwinkler (1989).
- * ***S. indigophorum*** Couch, *sp. nov.* [282]. *Basidiocarpus resupinatus, indigus vel atrocyaneus, regione marginale minutissime fimbriata. Basidioma in sect. transv. 330 – 550 µm crassa, e partibus tribus constata: Subiculum tenue, 16 – 20 µm crassum, ex hyphis albis et atris, 3.8 µm latis. Columnae aliquot curtae, 90 – 150 µm crassae, 75 µm altae. Stratum superum 190 – 365 µm crassum, ex hyphis atrobrunneis, laxitextis, 3.8 – 4 µm, septatis. Hymenium non visum [Couch]. Holotype: Japan, Shino Mura, Tamba Kyotofu, on *Prunus*, Nov. 15, 1927, R. K. Beattie coll. at NCU! Isotype at BPI 268681.*
- * ***S. irregulare*** Couch, *sp. nov.* [219]. *Basidiocarpus resupinatus, brunneus, superficiei maxime variabili. Basidioma 400 – 900 µm crassa e partibus tribus composita: subiculum 25 – 126 µm crassum, ex rhizomorphis et hyphis brunneis, sed hyphis raro quasi hyalinis, 3 – 4.2 µm latis, pluriseptatis. Columnae numerosae, aggregatae, vel nullae, plerumque 25 – 80 µm crassae, ex hyphis atrobrunneis, 3.6 – 4.2 µm latis, intricatis, pluriramificatis. Hymenium e paraphysibus vel probasidiis brunneis, sphaericis vel clavatis. Probasidia hyalina vel brunnea, obovoidea, 8 – 9.2 x 12 – 16.8 µm, maturitate evacuantia basidium elongatum curvum, 5 x 34 µm, 4-cellulatum formantia. Spora elliptica, flexa, 4 x 16 µm unam visam. Holotype: Africa, Uganda, Mukono Hill, altitude 4300', Nov. 1914, R. Dummer coll at K, isotype at NCU!*
- S. jamaicaense*** Burt [81]. Holotype at FH as FH-Burt 17. Isotype: Jamaica, Jim Crow Peak, 5500' April, L. M. Underwood coll. 2439 at NCU!
- * ***S. lacunosum*** Couch, *sp. nov.* [291]. *Basidiocarpus resupinatus, in maturitate brunneus, iuventute schistaceus, superficiei regulariter foveolato-depressa, reticulata, margine determinata. Basidioma 400 – 600 µm crassa, strata distincta nulla, ex hyphis brunneis vel hyalinis, 2.1 – 4.2 µm*

- latis, plerumque 3.5 – 4 µm, septatis, pauce ramificatis. Probasidia ovoidea vel obovoidea, 10.5 x 18 µm. Basidia, sporae ut videtur nulla* [Couch]. Holotype: Costa Rica, San José, Villas del río Torres, Feb. 26, 1911, A. Tonduz coll., at NCU! An isotype possibly at FH since A. Tonduz was sending material to Patouillard.
- * ***S. lagerheimii*** Couch, *sp. nov.* [229]. *Basidiocarpus resupinatus, avellaneus deinde brunneus, superficiei ab initio subvelutina-hirsuta tunc sub lente granulosa, plurifissurata, margine indistincte determinata. Basidioma 250 – 650 µm crassa e partibus duobus vel tribus composita. Subiculum 40 – 100 µm crassum ex hyphis brunneis vel hyalinis, 3 – 4 µm latis, laxitextum. Contextum medullosum 120 – 450 µm crassum, laxitextum, ex hyphis hyalinis vel brunneis, 3 – 4.6 µm latis. Columnae curvae, crassae, irregulariter dispersae vel aggregatae tunc anastomosans. Probasidia 9.6 – 12.6 µm, sphaerica, germinantia basidium helicoideum, 5.2 – 5.8 x 33.6 – 42 µm, 4-cellulatum formantia. Sterigmata longa. Sporae non visae* [Couch]. Holotype: Ecuador, near Quito, Jan. 31, 1892, Lagerheim coll. at NCU! One of Couch's specimens is annotated by him as “? *S. pedicellatum* (Schw.) Pat.”. In 1892, de Lagerheim collected large series of *S. pedicellatum* in the vicinity of Cotacollao, near Quito. It is quite possible that the minor differences that distinguish these two species are due to age, growth and microenvironmental conditions.
- S. langloisii*** Pat. [98]. Holotype at FH as FH-Pat. 1075. Isotype: Louisiana, near St Martinsville, on *Crataegus arborescens*, May 11, 1899, Langlois 2995 at NCU!
- S. lanatum*** Chow. [294]. Included in Couch's “incompletely known species” as he had had no access to the type material.
- S. lanosum*** Pat. [264]. Holotype at FH as FH-Pat. 1076. Isotype: China, Cho Gahn, Tonkin, on *Citrus decumans*, Feb. 19, 1922, M. Duport coll., at NCU!
- S. laxum*** Pat. [203]. Holotype at FH as FH-Pat. 1077. Isotype: Philippines, near Mt. Maquiling, Los Baños, on *Astronia cummingiana*, Nemesio Catalan coll. at NCU!
- * ***S. lepidosaphis*** Couch, *sp. nov.* [146]. See J. Elisha Mitchell Sci. Soc. 51: 35. 1935. *Basidiocarpus resupinatus, theobrominus vel rufobrunneus, superficiei spinae numerosae instructa, regione marginale determinata. Basidioma e duobus, raro tribus, partibus composita. Subiculum tenuissimum, 10 – 20 µm crassum ex hyphis 3 – 6.3 µm latis, septatis, efibulatis sed anastomosantibus. Columnae spinosae ca. 75 µm crassae ex hyphis 4.2 – 5 µm latis, rectis, septatis, efibulatis, raro ramificatis. Probasidia sphaerica, 8.4 – 12.6 µm, hyalina, tenuitunicata. Basidia cylindrica aliquando curva, 4.2 – 6.3 x 31.5 – 46 µm, 4-cellulata. Sterigmata 4.2 µm longa. Sporae 3.2 – 4.2 x 10.9 – 13.8 µm, ellipticae valde curvatae* [Couch]. Holotype: Brazil, Minas Gerais, Viçosa, A. S. Müller 43 at NCU! Isotypes at BPI 268749 and 268750.
- S. leprieurii*** (Mont.) Pat. [174]. Material from Guyana in the Patouillard Herbarium at FH (FH-Pat. 1078) is an isotype. The holotype is at PC. See Ryvarden (1982) for discussion of the type. A portion of this material is also at NCU! Again, Couch erroneously misplaces the locality “near San José” to the island of Guadeloupe. Condert's collection is from “Guadalupe, near San José, Costa Rica” (cf. *S. curtisii*).
- * ***S. leprosum*** Couch, *sp. nov.* [162]. See J. Elisha Mitchell Sci. Soc. 51: 42. 1935. *Basidiocarpus resupinatus, albus, regione marginale indeterminata. Basidioma in sect. transv. tenuissima, 60 – 130 µm crassa, indistincte stratosata. Subiculum 12 – 20 µm crassum, ex hyphis 4.2 µm latis, septatis, efibulatis, hyalinis. Hymenium ex hyphis 2.1 – 2.5 µm latis, tenuitunicatis probasidiis et basidiis. Probasidia globosa, 10 – 11 x 10 – 13.8 µm, hyalina. Basidia recta, cylindrica, 6 – 6.5 x 50 – 56 µm, 4-cellulata. Sterigmata curta. Sporae albidae, elliptico-curvatae, 4.2 – 5 x 12.6 – 15 µm* [Couch]. Holotype: Chapel Hill, NC, Couch coll. at BPI 269387. Isotype at BPI 268780.
- S. leucostemum*** (Berk. & Br.) Pat. [203]. Holotype at FH as FH-Pat. 1079. Isotype: Ceylon, Central Province, Feb. 1868, Thwaites coll. 551 at NCU! annotated as “from Pat. Herb. ex Kew”.

- S. lichenicolum** (Berk. & Br.) Petch [250]. Isotype: Ceylon, Peradeniya, Dec. 1868, Thwaites 1026 at NCU!
- * **S. lilacinoalbum** Couch, *sp. nov.* [114]. See J. Elisha Mitchell Sci. Soc. 51: 56. 1935. *Basidiocarpus resupinatus*, maculam magnam formans. Basidioma in iuventute alba deinde pallidissime vinacea, senectute fumigata vel brunnea, superficiei laevi, sub lente minute granulosa, maturitate irregulariter fissurata, regione marginale vegetativa alba, determinata. Basidioma in sect. transv. 360 – 430 μm crassa e partibus tribus constructa. Subiculum 60 – 80 μm crassum ex hyphis brunneis, compactis textis hyphisque erectis, hyalinis, ramificatis, incrustatis. Stratum medium columnatum. Columnae 35 – 150 μm latae, 210 – 250 μm altae ex hyphis 3 – 4.2 μm latis, septatis, septo constrictis, efbulatis. Hymenium 60 – 100 μm crassum. Probasidia nulla. Basidia helicoidea, 4.2 – 5 \times 25 – 35 μm . Sterigmata longe apiculata. Sporae albae, elliptico-curvatae, 3 – 4 \times 10 – 17 μm , 1-3-septatae [Couch]. Holotype: Near Highlands, NC, E.R. Couch 9064. Paratypes: NC, Laurel Hill on Hicoria, Couch 9843; NC, Chapel Hill, Couch 9843 at BPI 268782 and 234396, respectively.
- S. lilacinum** Burt [176]. Holotype at FH as FH-Burt 28. Isotype: Trinidad, Port of Spain, Maraval Valley, Thaxter coll. at NCU!
- * **S. linderi** Couch, *sp. nov.* [104]. *Basidiocarpus resupinatus*, albidus vel brunneus, superficiei laevi aliquando minute fibrillosa, margine indeterminata. Basidioma tenue, raro 100 μm crassa, strata distincte nulla. Contextum ex hyphis compactis, intricatis, hyalinis vel olivaceis, septatis, ramificatis, 3 – 5 μm latis constatum. Probasidia globosa, 11 – 14.5 μm diam., laeve vel minute asperula, 1-plures-aggregata, plerumque pedicellata, pedicellum 1-2-cellulatum, germinantia basidium longe cylindricum, 5.8 – 6.5 \times 34 – 42 μm (quando 2-cellulatum), 5 – 5.8 \times 52 – 63 μm si 3-4-cellulatum. Sterigmata conica, unica vel duplex. Sterigmata furcata. Sporae 5 – 6.7 \times 18.4 – 21.4 μm , maiora ex basidiis 2-cellulatis [Couch]. Holotype: Massachusetts, near Pembroke, on *Pinus rigida*, Apr. 11, 1937, D. H. Linder coll at NCU!
- Isotype at BPI 268987.
- * **S. macadamiae** Couch, *sp. nov.* [230]. *Basidiocarpus resupinatus*, roseo-bubalinus, avellaneus vel brunneus, superficiei in iuventute laevi tunc fissurata, margine superiore paucе fimbriata, inferiore inconspicue columnata. Basidioma in sect. transv. 230 – 420 μm , e partibus tribus composita. Subiculum tenue, ex hyphis 3.8 μm late. Columnae umbellatae, 40 – 60 μm altae, ex hyphis 3 – 4.2 μm latis. Hymenium 50 – 150 μm crassum, hyphis hyalinis vel pallide brunneis, septatis, ramificatis, apicaliter sinuosis, 2.5 – 3.5 μm latis. Probasidia sphaerica, 10.5 – 18 μm . Basidia 6.7 – 8 \times 27 – 37 μm , subcircinata. Sterigmata 6 – 8 μm . Sporae ellipticae, curvatae, 4.2 – 5.4 \times 15.9 – 22.2 μm [Couch]. Holotype: Australia, Queensland, on *Macadamia ternifolia*, Oct. 19, 1933, W. Pollard 2943 at NCU!
- S. maquilianum** Sydow [288]. Holotype: Philippines, Prov. Laguna, near Los Baños, Mt. Makiling, on *Astronia* sp., Feb. 1914, C. F. Baker coll. no. 2808 with photograph at NCU! from B. The specific epithet in Couch is “makilingianum” but the original spelling by Sydow (Ann. Mycol. 1917: 170) is “maquilianum” as recorded by Saccardo (Syll. Fung. 23: 566. 1925).
- S. mariani** (Bres. in Sacc.) Bres. [134]. Isotype: Italy, near Rome, on *Pyrus communis*, 1902, Mariani coll. at NCU! This widely used name should be correctly cited as *S. mariani* (Bres. ex Sacc.) Bres. as the publication of Notae Mycologicae (Ann. Mycol. 1: 24. 1903) was authored by Saccardo and starts with: “1. *Septobasidium Mariani* Bres. in litt., *Hypochnus Michelianus* Cald. var. *quercinus* Sacc. olim” Only one of the specimens listed by Saccardo, collected by Mariani near Rome, corresponds to Bresadola’s species, not formally described until 1905 (Ann. Mycol. 3: 164. 1905), the others are *S. michelianum* (Cald.) Pat.
- * **S. mariani** (Bres. ex Sacc.) Bres. var. **japonicum** Couch, *var. nov.* [137]. *Basidiocarpus resupinatus*, albidulus, gossypinus. Subiculum ex hyphis compactis, brunneis. Columnae numerosissimae, ex hyphis 3 – 4 μm latis, ramificatis [Couch]. Holotype: Japan, Sendai, on *Styrax japonica*, coll. A.

- Yasuda in Lloyd Collection 39231 at NCU. Couch wrote: “the correct position of this fungus will have to remain doubtful until the probasidial and basidial stages can be found”.
- S. merrillii** Bres. [202]. Holotype (or a fragment of it?): Philippines, Luzon, Benguet, on *Strobilanthus cincinnalis*, Merrill 6668, May 1909, received from B is at NCU!
- S. mexicanum** Sydow [231]. Holotype: Mexico, on *Cupressus* sp., Reiche 46 at NCU! ex B.
- S. michelianum** (Caldesi) Pat. [194]. Isotype: Italy, on *Laurus nobilis*, Caldesi 66, at NCU! and cf. *S. mariani* (Bres. ex Sacc.) Bres.
- S. minutulum** H. & P. Sydow [200].
- * **S. molle** Couch, *sp. nov.* [266]. *Basidiocarpus resupinatus, siccus, russus, regione marginale indeterminata. Basidioma ca. 1 mm crassa, non stratificata. Contextum laxum ex hyphis pallide brunneis vel hyalinis, 4 – 6. 3 µm latis, ramificatis. crassiseptatis, hyphis vetustis crassitunicatis, aliquandam gelatinosis. Conidia ca. 8 µm crassa. Probasidia sphaerica, 18 – 23.2 µm, pallide vel atrobrunnea, superficiei pustulosa. Basidia, sporae non visi* [Couch]. Holotype: Philippines, Laguna, Agricultural College, on *Piper* sp., Sept. 25, 1933, Domingo Altamirano 47, at NCU!
- S. molliusculum** H. & P. Sydow [283]. Isotype: Philippines, Agusan, Mindanao, Cabadbaran, Mt. Urdantea, on *Litsea cassiaefolia*, Aug. 1912, Elmer coll., “isotype no. 13417 in Sydow Herb.” at NCU!
- * **S. muelleri** Couch, *sp. nov.* [171]. *Basidiocarpus resupinatus, nicotianus vel griseobrunneus, albide variegatus, superficiei sub lente lunulato-porata, margine albida, determinata, minute plicato-fimbriata. Basidioma 400 - 600 µm crassa e partibus duobus disposita: subiculum 35 – 50 µm crassum. Columnae curtae, dispersae. Contextum ex hyphis 3.4 – 3.8 µm latis, hyalinis vel brunneis, laxis sed partialiter pseudoparenchymatosis. Probasidia subglobosa, 16 x 21 µm. Basidia cylindrica, 6.7 x 42 µm, 4-cellulata* [Couch]. Holotype: Brazil, Viçosa, Minas Gerais, A. S. Müller 683 at NCU! Isotype at CUP. Couch suggests this taxon is a hybrid involving *S. burtii*. Dykstra (1974) has established through ultrastructural comparisons that hybridization may be possible between *S. schweinitzii* and *S. pseudopedicellatum*, as stated by Couch (p.114).
- S. murinum** (Berk. & Br.) Pat. [237] based on *Corticium murinum* Berk. & Br. but never published by Patouillard and later replaced by *S. murinum* (Berk. & Br.) Petch (Ann. R. Bot. Garden Peradeniya IX: 298. 1925), which is the correct name. Holotype: Ceylon, Peradeniya, Thwaites 32, at PDA. Isotype at NCU!
- * **S. myrsinae** Couch, *sp. nov.* [273]. *Basidiocarpus resupinatus, albidulus bubalino-maculatus vel bubalinus, superficiei laevi, pauce fissurata vel sinuosa, minute alveolata, tacto cum vellum, margine valde determinata. Basidioma e partibus tribus composita; subiculum regione marginale compacta, 20 – 40 µm crassa. Contextum 1 – 2 mm crassum, in sectione alveolatum. Columnae 16 – 80 µm crassae, ex hyphis 3.8 – 4 µm latis, compactis, septatis, apicaliter tectum papyraceum formantia. Stratum superum 50 – 80 µm crassum. Probasidia, basidia et sporae non visa* [Couch]. Holotype: Brazil, São Leopoldo, Rio Grande do Sul, Rick in Fungi Austro-Americani #157, as *S. albidum* Pat. at NCU!. Paratypes: Brazil, R. Grande do Sul, Rick, UNC 10321 and 10427, both on *Myrsine*, at NCU!
- * **S. natalense** Couch, *sp. nov.* [118]. *Basidiocarpus resupinatus, papyraceus, argillaceus aliquandam glandaceus, superficiei sublaevi sed pauce corrugata, minute fissurata, margine determinata. Basidioma 250 – 500 µm crassa e partibus tribus constata. Subiculum membranaceum vel papyraceum ex hyphis albidis. Columnae sparsae, 40 – 50 x 100 – 120 µm. Stratum superum 100 – 300 µm crassum in senectute materia amorpha, hyalina, obtectum. Probasidia nulla. Basidia e latere hypharum generativarum exorientia, irregulariter flexi vel sigmoidea, 4-cellulata. Sporae nullae* [Couch]. Holotype: S. Africa, Natal, P. Maritzburg, on *Prunus domestica*, June 21, 1923, J. H. Spencer coll. at NCU!
- S. neglectum** Boedijn & B. A. Steinm. [233].

- Holotype at BO. Isotype: Java, Tjibodas, April 1930, F. W. Went coll. at NCU!
- S. nodulosum** Pat. [177]. Holotype at FH as FH-Pat. 1087. Isotype: China, Tonkin, Cho Ganh, on bamboo, Duport 209, Feb. 1919, at NCU!
- S. obscurum** Boedijn & B.A. Steinm. [140]. Isotype: Java, Priangan, Tjibodas, Oct. 1929, Boedijn 69, at NCU!
- * **S. pachydermum** Couch, *sp. nov.* [141]. *Basidiocarpus resupinatus, tabacinus, superficiei quasi laevi vel velutina, sed partialiter rugulosa, minute scrobiculata, margine determinata, aliquantum strigosa. Basidioma 3 – 5 mm crassa. Subiculum atrum, compactissimum, 60 – (150) – 200 µm crassum, ex hyphis 4 – 5 µm latis. Contextum irregulariter columnatum, columnis ramificatis, obscuris, vel laxitextum, ex hyphis 3 – (6.7) – 8.4 µm latis, crassitunicatis, erectis, pauciter ramificatis. Hymenium supra contextum, 60 – 100 µm crassum, ex hyphis compactatis, intricatis, ramificatis, apicaliter circinatis. Probasidia globosa vel subglobosa, 15 – 18 µm, frequentiter aggregata, germinantia basidium elongatum formantia. Basidia recta, cylindrica, 7.8 – 8.4 x 42 – 50 µm, 4-cellulata. Sterigmata ca. 3 µm longa. Sporae elliptico-flexae, 4.6 – 6.3 x 18 – 23 µm [Couch]. Holotype: Burma, Mawksai, on bamboo (*Dendrocalamus strictus*), W. A. Robertson coll. at NCU!*
- * **S. pallidum** Couch, *sp. nov.* [253]. *Basidiocarpus resupinatus, bubalinus, superficiei laevi, margine determinata, sub lente minutissime fimbriata. Basidioma in sectione ca. 500 µm crassa, e partibus tribus composita. Subiculum 25 40 µm crassum albidulum vel bubalinus. Columnae 40 – 80 x 84 µm, ex hyphis 3 – 4.2 µm, brunneis, septatis. Stratum superum 300 – 400 µm crassum, ex hyphis 3 – 4.2 µm latis, hymenium albidulum, 40 – 60 µm crassum, ex hyphis hyalinis, tenuitunicatis, pluriramificatis, irregulariter flexis. Probasidia nulla. Basidia e latere hypharum exorientia, 7 – 8.4 x 29 – 34 µm, 4-cellulata, distaliter incrassata, plerumque pauciter flexa. Sterigmata longa, plerumque basidio longiora. Sporae ellipticae, flexae, transverse septatae, 8-cellulatae, 4 – 4.6 x*
- 19 – 22 µm [Couch]. Holotype: Brazil, São Lourenço, Minas Gerais, Dec. 1936, on *Pyrus communis*, N. Azevedo coll. at NCU!*
- S. pannosum** (E. Fries) Bres. [235]. Holotype: Mexico, Liebman coll., indicated to be at UPS.
- S. patouillardii** Burt [85]. Holotype at FH as FH-Burt 20. Isotype: Louisiana, St. Martinsville, A. B. Langlois 3005 at NCU!
- S. paulense** P. Henn. [265]. The holotype “Brazil, S. Paulo, Alto da Servia” is indicated to be at B, but a specimen, possibly an isotype is at NCU!
- * **S. peckii** Couch, *sp. nov.* [274]. See J. Elisha Mitchell Sci. Soc. 51: 75. 1935. *Basidiocarpus resupinatus, perennis, russus vel fulvus vel avellaneus, regione marginale determinata. Basidioma in sect. transv. e partibus tribus composita. Subiculum indistinctum, sparsum, ex hyphis hyalinis 3 µm latis. Columnae sparsae, curtissimae, ex hyphis pallide brunneis 3.8 – 4 µm latis. Stratum superum irregulariter incompletum. Hymenium ex hyphis erectis, 3.8 – 4 µm latis. Probasidia, basidia ut videtur nulla [Couch]. Holotype: New York, Indian Lake, on *Alnus incana*, Chas. H. Peck, is in the Patouillard collection at FH labelled as *S. pedicellatum* Pat. *vide* Couch. Isotype: at NCU!*
- S. pedicellatum** (Berk. & Curt.) Pat. [215]. Isotype: Cuba, C. Wright 798 at NCU! and other herbaria where Wright’s materials were distributed as K and FH. Donk (1958) presents a strong argument for the rejection of this name which he substitutes for *Septobasidium couchii* Donk [Taxon 7: 197. 1958; *S. couchii* Donk (Bull. Bot. Gardens Buitenzorg III, 17: 158. 1941, *nomen nudum*)].
- * **S. perforatum** Couch, *sp. nov.* [290]. *Basidiocarpus resupinatus, lignobrunneus vel sepiaceus, superficiei laevi sed multiforminifera, margine albidula, determinata. Basidioma 400 – 650 µm crassa, e partibus tribus composita: subiculum 63 – 125 µm crassum, compactum, ex hyphis hyalinis vel brunneis, tenuitunicatis, 3 – 4 µm latis, subiculum partialiter ab contextum non distinctum. Contextum 300 – 420 crassum, densitextum, ex hyphis erectis, multiramificatis, ca. 3 µm latis, pallide brunneis*

- vel hyalinis constatum. Hymenium 30 – 50 µm crassum, distinctis simum, ex hyphis hyalinis, 2.2 – 3 µm latis, intricatis. Probasidia, basidia, sporae ut videtur nulla* [Couch]. Holotype: Brazil, São Leopoldo, Rio Grande do Sul, Rick coll., in NCU no. 10395, at NCU!
- * ***S. petchii*** Couch, *sp. nov.* [126]. *Basidiocarpus resupinatus, hypophyllus, tenuis, albus sed in sicco bubalinus, superficiei irregulariter verrucosa, verrucae numerosas, margine indistincte determinata. Basidioma ex hyphis cruciato-ramificatis constata. Hymenium inter verrucis tenuis simum. Hyphidia e latere hypharum generativarum exorientia. Probasidia nulla. Basidia helicoidea, 3. 8 – 4.2 x 17 – 23 µm, 4-cellulata. Sporae ellipticae, leviter flexae, 3 – 4 x 10.5 – 11.7 µm* [Couch]. Holotype: Ceylon, Nuwara Eliya, on *Lasianthus* sp., Sept. 11, 1927, T. Petch coll., at NCU!
- * ***S. philippinense*** Couch, *sp. nov.* [247]. *Fungus resupinatus, cinnamomeus, lignobrunneus, superficiei laevi sed minutissime fissurata, margine cremea, determinata. Basidioma in sect. transv. 0.4 – 0.7 mm crassa, e partibus tribus composita: subiculum 30 – 50 µm crassum, ex hyphis dense compactis, 3.8 – 4.4 µm latis. Contextum 300 – 450 µm crassum, ex hyphis 3.8 – 4.4 µm latis, septatis; hymenium 60 – 110 µm crassum, valde contexto distinctum, ex hyphis 4 µm latis, erectis, pluriseptatis. Probasidia nulla. Basidia primo subglobosa tunc elongata, recta vel leviter flexa, clavata, 9 – 11.7 x 33 – 48 µm, 4-cellulata. Sporae 4 – 6.7 x 21 – 27 µm, ellipticae, flexae* [Couch]. Holotype: Philippines, Laguna, Los Baños, on *Citrus* hybrid, O. A. Reinking 8917, Feb. 16, 1920, determined by Patouillard as *S. albidum* var. *philippineum* at FH. Isotype at NCU!
- S. pilosum*** Boedijn & B.A. Steinm. [261]. Isotype: Java, Plantation of Podong Gedé, on *Thea*, Steinmann coll, May 1930 at NCU!
- S. pinicola*** Snell [178]. Location of type unknown to us.
- * ***S. piperis*** P. Henn. *ex Couch, sp. nov.* [226]. *Basidiocarpus resupinatus, bubalinus, superficiei laevi sed partialiter et pauce fissurata. Basidioma in sect. trasv. e partibus tribus composita: Subiculum tenuissimum membranaceum, 12 – 42 µm crassum, ex hyphis 3 – 4 µm latis, brunneis et hyphis hyalinis flexis, incrustatis. Columnae aliquotae, 20 – 95 x 90 – 115 µm, apicaliter ramificantia stratum superum formantia. Hymenium quasi hyalinum, 25-36 µm crassum, ex hyphis 3 – 3.8 µm, ramificatis, crystallis minutis incrustatis. Probasidia sphaerica, 9.2 – 9.8 µm diam. Basidia irregulariter curvata vel flexa, 5.6 – 6.4 x 42 – 54 µm. Sterigmata et sporae ut videtur nulla* [Couch]. Holotype: Java, Linburg (?), on *Piper nigrum*, Aug. 23, 1901, Zimmermann coll. at NCU!
- ‡ ***S. polypodii*** Couch [296]. *J. Elisha Mitchell Sci. Soc.* 44: 255. 1929. This taxon corresponds to *Platycarpa polypodii* (Couch) Couch (*Mycologia* 41: 428. 1949) best placed among parasitic taxa of Auriculariales s.l., like *Herpobasidium* and allied genera (Oberwinkler & Bandoni 1984).
- S. proliferum*** Boedijn & B.A. Steinm. [232]. Isotype: Java, Priangan, April 1930, Boedijn 594 & 596 at NCU!
- S. protractum*** H. & P. Sydow [91]. Isotype: Southeast Africa, Transvaal, Pretoria, Plat River, on *Acacia nigrescens* var. *pallens*, J. P. Pienaar, Jan. 31, 1912, at NCU!
- * ***S. prunophilum*** Couch, *sp. nov.* [280]. *Basidiocarpus resupinatus, sepiaceus, superficiei laevi, raro squamo-flocculenta, tactu velutina, margine determinata, sub lente minute fimbriata. Basidioma in sectione 450 – 700 µm crassa e 4-partibus composita: Subiculum ca. 40 µm crassum, ex hyphis compactis, obscuris, 3.6 – 4 µm latis. Columnae 85 – 130 µm crassae, 100 µm altae, ex hyphis 3.8 – 5 µm latis. Contextum 300 – 400 µm crassum, ex hyphis 3. 8 – 5 µm latis, dense adpressis, leviter ramificatis. Hymenium superum, 40 – 80 µm, ex hyphis brunneis, erectis, ramificatis, plerumque parallelis, rectis vel flexis, septatis, 3.6 – 4 µm latis. Probasidia, basidia nulla* [Couch]. Holotype: Japan, Shino Mura, Tamba Kyotofu, on *Prunus*, R. Kent Beattie 154 at NCU! Paratype: Japan, Shino Mura, Beattie 151 at NCU! Isotypes at BPI 268896 and 268897.
- S. pseudopedicellatum*** Burt [132]. Holotype at BPI 269407. Isotype at FH as FH-Burt 22.

- S. pteruloides** (Mont.) Pat. [270]. Holotype at PC.
- * **S. punctatum** Couch, *sp. nov.* [240]. *Basidiocarpus resupinatus, roseo-bubalinus vel schistaceus, superficiei in iuventute reticulata, senectute laevi, fissurata et minute punctata, margine indeterminata. Basidioma 120 – 260 μm crassa, omnino compacta, e partibus duobus constata. Contextum 100 – 200 μm crassum, ex hyphis 3.8 – 4.2 μm latis, violaceo-brunneis, septatis, dense compactis, intricatis textum. Hymenium 40 – 60 μm, valde compactum, ex hyphis hyalinis, tenuitunicatis, ramificatis, probasidiis et basidiis. Probasidia subglobosa-globosa, 7.1 – 10.5 μm diam., e maturitate evacuantia basidium irregulariter curvatum formantia. Basidium 4.2 – 7.1 x 25 – 29 μm. Haustoria fusioidea* [Couch]. Holotype: Philippines, Laguna, Los Baños, on *Citrus* sp., Oct. 1920, O.A. Reinking coll. at NCU!
- ‡ **S. purpureum** Couch [80]. *J. Elisha Mitchell Sci. Soc.* 44: 255. 1929. The holotype is not at NCU. Isotype: Jamaica, Cinchona, Couch 146, at BPI 268898.
- S. reikingii** Pat. *ex Couch, sp. nov.* [119]. *Basidiocarpus resupinatus, murinus vel albus vel cinnamomeus, superficiei laevi, papyracei, iuventute minute pulverati in maturitate fissurati, nitens. Basidioma e partibus tribus composita: subiculum, contextum columnatum, stratum superum. Probasidia nulla. Basidia irregulariter curvata, 5.4 – 6.7 x 35 – 50 μm, 4-cellulata. Sterigmata longa, 2.5 x 10.5 vel longiora. Sporae elliptico-curvatae, 4 – 4.2 x 13.4 – 16 μm* [Couch]. Holotype: Philippines, Los Baños, Feb. 16, 1920, Reinking 8848, in the Patouillard collection at FH as FH-Pat. 1095. Couch suggests this may be a hybrid involving *S. bogoriense*.
- S. retiforme** (Berk. & Curt.) Pat. [90]. Holotype at FH as FH-Pat. 1094.
- S. rhabarbarinum** (Mont.) Bres. [122]. Location of type unknown to us.
- * **S. rickii** Couch, *sp. nov.* [275]. *Basidiocarpus resupinatus, argillaceus vel spadiceus vel roseo bubalinus, superficiei laevi, quasi glabra, pars minute lanata, crustosa, margine abrupte determi-*
nata. Basidioma 2.5 mm crassa, e 5-partibus composita: 1- subiculum album, 30 – 85 μm crassum, ex hyphis 3.8 – 5 μm latis, laxis, pseudoparenchymatosis; 2- ex hyphis fasciculatis, fascicula ramificans formantia; 3- masa spongiosa 1 – 1.5 mm crassa, compacta ex hyphis 4.6 – 5.2 μm latis, laxe intricatis, hyalinis, in matrix brunnea incrustatis. 4- Columnae numerosae (4 – 8 /mm quad.), 40 – 160 x 100 μm, ex hyphis ca. 4 μm latis, hyalinis vel brunneis, laxitextis; 5- Stratum superum 160 – 250 μm crassum, ex hyphis 4 – 4.2 μm latis, hyalinis vel pallide brunneis hymenium formantia. Hymenium 60 – 80 μm crassum, ex hyphis dense compactis, erectis, apicaliter 1-3-cellulis ovoideis vel subglobosis coronatis. Probasidia nulla sed series moniliformis cellulis ampuloso-campanulatis, brunneis adsunt. Basidia non visa [Couch]. Holotype: Brazil, São Leopoldo, Rick coll. in Lloyd collection no. 46400, at NCU!. This gathering distributed by Rick as #157 of Fungi-Amer. determined as *S. albidum* Pat. consisted of two species, *S. myrsinae* Couch and *S. rickii*.
- * **S. rimulosum** Petch & Couch, *sp. nov.* [102]. *Basidiocarpus resupinatus, in iuventute schistaceus – violaceo-griseus, in sicco avellaneus, superficiei conspicue et regulariter polygono-fissurata-reticulata, margine sinuosa, determinata vel indistincta. Basidioma 200-(300) – 600 μm crassa e partibus duobus composita. Subiculum 30 – 60 μm crassum, ex hyphis 3.6 – 4 μm latis, brunneis, intricatis textum. Contextum 100 – 200 μm crassum, ex hyphis 3.4 – 3.8 μm latis, brunneis, nonnumquam dichotomo-ramificatis, circinatis, aliquantum aspere tunicatis. Hymenium 60 – 200 μm, ex hyphis densissime compactis, basi brunneis apici hyalinis. Probasidia subsphaerica-sphaerica, 6.7 – 8.4 μm diam., evacuantia et basidium elongatum formantia. Basidia 5 – 5.4 x 21 – 27 μm, 2-cellulata. Sterigmata longa. Sporae 4 x 9.6 – 11.5 μm, ellipticae, curvatae* [Couch]. Holotype: Ceylon, Pambangama, May 1918, Petch 5759 at NCU!
- S. robustum** Boedijn & B.A. Steinm. [278]. Location of type unknown to us.
- S. rubiginosum** Pat. [218]. Holotype at FH, FH-Pat. 1091.

- * *S. rugulosum* Couch, *sp. nov.* [129]. See J. Elisha Mitchell Sci. Soc. 51: 59. 1935. *Basidiocarpus resupinatus olivaceo-fulvus vel sepiaceus superficiei raro laevi sed minute reticulata, atro punctata, regione marginale abrupte determinata saepissime minute fibrillosa. Basidioma in sect. transv. 60 – 250 µm crassa, compacta, e partibus duobus subdistincte composita. Subiculum ex hyphis brunneis, fragilis, 4 – 10.5 µm latis, septatis in septo constrictis. Hymenium superum ex hyphis incrustatis, circinatis. Probasidia nulla. Basidia cylindrica, 4 – 5 x 35 – 42 µm, torta vel cochleata, 4-cellulata. Sterigmata longa. Sporae ellipticae, curvatae, 3.9 – 4.6 x 12.6 – 18.9 µm, 1-3-septatis* [Couch]. Holotype: Jacksonboro, SC, Couch coll. 8472, at NCU. Isotypes at BPI 269066 and 269067.
- * *S. sabalis* Couch, *sp. nov.* [93] See J. Elisha Mitchell Sci. Soc. 51: 69. 1935. *Basidiocarpus resupinatus, vinaceo-bubalinus vel fuscus, superficiei laevi quasi nitenti, regione marginale determinata. Basidioma in sect. transv. ad 1 mm crassa e partibus quatuor composita. Subiculum tenue ca. 50 µm crassum, columnatum, columnis 80 – 125 µm altis. Stratum medium, imperfectum, incompletum, 80 – 125 µm crassum. Columnae inconspicuae, ca. 12 – 20 / mm quadr. 20 – 70 x 275 – 375 µm, apice ramificatis tectum (stratum superum dicto 500 – 600 µm crassum) formantia, ex hyphis 4.2 µm latis, septatis, efibulatis. Hymenium superum, ca. 120 µm crassum ex hyphis pluriramificatis deinde intricatis, probasidiis, basidiis. Probasidia sphaerica vel obovoidea, 9.6 – 12.6 x 15 – 22 µm, maturitate germinantia et evacuantia basidium formantia. Basidia 8.4 – 9.6 x 12 – 50 µm, generaliter e parte media vel apice inflata, 1-septata. Sterigmata 30 µm longa. Sporae 5.4 – 8.4 x 19 – 27 µm, distaliter tortae apicem recurvatae, transverse et longitudinaliter pluriseptatae* [Couch]. Holotype: Louisiana, near Baton Rouge, on leaves and petioles of *Sabal*, C.A. Brown 317 at FLAS F21226, isotypes at BPI 269076 and 269077.
- * *S. sabalis-minoris* Couch, *sp. nov.* [188]. See J. Elisha Mitchell Sci. Soc. 51: 19. 1935. *Basidiocarpus resupinatus, pulvinatus, minutus (3 – 10 mm quad.), griseo-avellaneus, superficiei spongiosa, regione marginale determinata. Basidioma in sect. transv. ca. 1 mm crassa, non stratificata. Contextum ex hyphis 3.6 – 4 µm latis. Hymenium ex contexto indistinctum ex hyphis paucè ramificatis, probasidiis, basidiis. Probasidia sphaerica vel obovoidea, 8.4 – 10.5 x 10 – 12 µm, praecipue cellula basale ampullosa instructa. Basidia cylindrica, 4 – 4.6 x 33 – 42 µm, 4-cellulata. Sterigmata 4 – 5 µm. Sporae ellipticae, tortae, ut videtur non-septatae* [Couch]. Holotype: Florida, 15 m north of St. Augustine, Bomhard coll. at FLAS F7673, isotype at BPI 269078. Couch's original spelling of the specific epithet was *sabal-minor*, changed here to the correct genitive form.
- * *S. scabiosum* Couch & Petch, *sp. nov.* [286]. *Basidiocarpus resupinatus, epiphyllicus vel hypophyllicus, pallide tabacinus vel sepiaceus. Subiculum inconspicuum, indeterminatum, ex hyphis 2.8 – 3.5 µm latis, fuscis vel hyalinis, pseudorhizomatis radialialiter ramificatis ex hyphis 6 – 8 µm latis, lateraliter intertextis et hyphis erectis, comatis, domatia formantia. Hymenium nullum.* [Couch]. Holotype: Ceylon, Peradeniya, 1910, on *Codiaeum variegatum*, T. Petch 3168 at NCU!
- * *S. schizostachyi* Couch, *sp. nov.* [192]. *Basidiocarpus resupinatus, nicotianus vel ligneo-brunneus, superficiei laevi, irregulariter punctata, paucè fissurata, margine indeterminata vel indistincte indeterminata. Basidioma ca. 600 µm, e partibus tribus composita. Subiculum valde compactum, 40 – 80 µm crassum, ex hyphis contexto angustioris, dense compactis quasi pseudo-parenchymatosis. Contextum non columnatum, 60 – 440 µm crassum, ex hyphis 4.2 – 7 µm latis, compactis, crassitunicatis, paucè septatis, atrorufibruneis. Hymenium 60 – 210 µm crassum, ex hyphis erectis convallatis, contexto aequantis. Probasidia sphaerica, 12.6 – 16.8 µm diam. Basidia una visa ca. 6.7 x 40 – 50 µm, 4-cellulata* [Couch]. Holotype: Philippines, Laguna, Agricultural College, Dec. 1933, O. Ocfemia 50 at CAHUP. Isotype under NCU no.10409, is not at Chapel Hill as indicated by Couch.
- S. schweinitzii* Burt [112]. The holotype, "North Carolina, Schweinitz," is apparently lost. A neo-

type is here proposed: Welcome, North Carolina, Roper leg. 28 Oct. 1928 on *Fraxinus americana* at BPI 269080, an isoneotype at NCU no. 8370.

- * ***S. sclerotoides*** Couch, *sp. nov.* [84]. *Basidiocarpus resupinatus, fuscogriseus vel pallide brunneus, textura firma, superficiei sinuosa, irregulariter punctulata, foveo-fisso-cribrosa, margine determinata. Basidioma 200 – 800 µm crassa, e 2-3-partibus composita. Subiculum 60 – 580 µm crassum, ex hyphis 3 – 5.4 µm latis, atrobrunneis, dense compactis, crassitunicatis, pseudopulvinus stromaticus formantia. Columnae 30 – 60 x 200 – 250 µm, ex hyphis 4.8 µm latis vel columnae nullae. Hymenium ex subiculo si basidioma e partibus duobus constata si tribus supra columnae. Hymenium 84 – 130 µm crassum, ex hyphis ca. 3.8 µm latis, ramificatis, sinuosis, erectis, apicaliter hyalinis et incrustatis. Probasidia nulla. Basidia 9.6 – 12 x 25 – 30 µm, 2-cellulata, plerumque e medio leviter constricta, cellula apicale longiora, basaliter cellulae vacua pedicellata. Sterigmata basidium aequantia. Sporae distaliter valde curvatae, 7 – 8.4 x 23 – 25 µm [Couch]. Holotype: Brazil, Bom Fin, Rio Jurá, Minas Gerais, Nov 1900, no. 2733 ex Berlin, as *S. velutinum* at NCU!*
- S. scopiforme*** Pat. [269]. Holotype: Brazil, Prov. São Paulo, Campinas, Noack 792 at FH under FH-Pat. 1098. Isotype at NCU!. This is also the type specimen of subgenus *Noackia* Pat. (Ann. Mycol. V: 364. 1907). Apart from the substrate (bamboo) and characteristics of the subiculum, *S. scopiforme* is hardly distinct from *S. pteruloides* and somewhat akin to *S. clelandii*.
- * ***S. separans*** Couch, *sp. nov.* [185]. *Basidiocarpus resupinatus, iuventute glandulaceus tunc theobrominus, crystallis minutis obtectus, comatus et in senectute quasi glabrus, vel superficiei sinuosa, rhizomato-venulosa, reticulata, margine determinata. Basidioma in sect. transv. 2.5 mm crassa, e partibus duobus composita. Subiculum nullum vel incipiens. Contextum ex hyphis 4 – 4.6 µm latis, irregulariter et remote inflatis, tabacinis vel violaceo-brunneis, septatis, septo incrassatis. Columnae nulla sed aliquantum fascicula hypharum. Hymenium ca. 20 µm crassum, in maturitatem contexto separans. Probasidia sphaerica vel subsphaerica, 10.5 – 13.8 µm, tenuitunicata vel crassitunicata, hyalina, pedicellata vel epedicellata. Basidia longe cylindrica, 5 – 6.3 x 46 – 71 µm, 4-cellulata, plerumque caduca. Sterigmata delicata, 6 – 8 µm longa. Sporae 3.8 – 4.2 x 15 – 21 µm, leviter flexae, 3-septatae [Couch]. Holotype: Brazil, Rio Grande do Sul, São Leopoldo, on *Citrus aurantium*, Nov. 9, 1931, Rick collection 16 under NCU no. 9365, at NCU! The herbarium sheet also contains Rick's collections 8, 12 and 15, from same locality and host plant, here designated as isotypes.*
- S. septobasidioides*** (P. Henn.) Lloyd [254]. Based on *Hymenochaete septobasidioides* P. Henn. (Hedwigia 43: 172. 1904) it was combined under *Septobasidium* by Lloyd (Myc. Notes 5: 722. 1917). *S. papyraceum* Couch (J. Elisha Mitchell Soc. 44: 249. 1929) is a later synonym.
- * ***S. simmondsii*** Couch, *sp. nov.* [279]. *Basidiocarpus resupinatus, albidus vel cremeus, superficiei laevi, tactu vellum, sicca, opaca, margine determinata. Basidioma 1 – 1.6 mm crassa, e partibus tribus instructa. Subiculum inconspicuum, albidum. Columnae nullae vel sparsae, 0.1 – 0.2 mm altae. Stratum superum ex hyphis 3.6 – 4.2 µm latis, hyalinis, crassitunicatis, ramificatis, raro septatis. Hymenium 65 – 120 µm crassum, ex hyphis 3 – 3.8 µm latis, hyalinis. Probasidia sphaerica ca. 12 µm ampla, si obovoidea 12 – 13.8 x 12 – 16.8 µm, hyalina, tenuitunicata. Basidia nulla [Couch]. Holotype: Australia, Queensland, Yarraman, on *Milletia megasperma*, Jan. 9, 1934, ex Herb. Plant Pathology Brisbane no. 3431 at NCU!*
- * ***S. sinense*** Couch, *sp. nov.* [221]. *Basidiocarpus resupinatus, bubalinus vel cinnamomeus, superficiei nodulosa vel quasi laevi, margine determinata. Basidioma 600 – 800 µm crassa, e centro e 5-partibus composita. 1- subiculum 35 – 80 µm crassum, ex hyphis 3.8 – 4 µm latis, hyalinis vel pallide fuscis; 2- fascicula hypharum ca. 80 µm altae ex hyphis brunneis vel quasi hyalinis, 4 – 5.4 µm latis; 3- fascicula superiora fascia horizontale, 20 – 30 µm crassa, compacta, atrobrunnea vel nigra formantia; 4- contextum 200 – 600 µm crassum, hyphis erectis, 4 – 5.4 µm latis, imbricatis, compactis, 5- hymenium superum 65 – 100 µm cras-*

*sum, ex hyphis 2 – 3 µm latis, tenuitunicatis, erectis, hyalinis, sinuosis, ramificatis, anastomosans. Probasidia e latere hypharum generativarum exorientia. Probasidia ab initio hyalina, sphaerica tunc obovoidea 12.6 – 14.7 x 14. 7 – 23 µm, unilateraliter crassitunicata. Basidia 8 – 10.5 x 42 – 50 µm, leviter flexa vel subcircinata, 4-cellulata, maturitate brunnea. Sterigmata longa. Sporae ut videtur nulla. Conidia hyalina, penicillo-concatenatis, minute asperula, hymenio et strato supero adsunt [Couch]. Holotype: China, Tang nen, Kwang Si, Reinking 4986, May 17, 1919, on *Citrus limonia*, at NCU!*

- * ***S. sinuosum*** Couch, *sp. nov.* [100]. See J. Elisha Mitchell Sci. Soc. 51: 65. 1935. *Basidiocarpus resupinatus, maculam magnam formans, violaceo-griseus aliquot atropunctatus, superficiei sinuoso-costata, regione marginale tenue, albida, laxe fibrosa. Basidioma in sect. transv. 400 – 600 µm crassa e partibus tribus aliquantum indistincte composita. Subiculum tenuissimum ca. 20 µm crassum, ex hyphis 2.2 µm latis, versicoloris hyalinis, atromurinis vel purpureo-brunneis. Contextum subiculo concolorum, 300 – 400 µm crassum, ex hyphis 2 – 2.4 µm latis, laxis, fere dichotomo-ramificatis, intricatis, efibulatis sed sub lente verrucosis, punctatis vel spinosis. Hymenium praecipue hyalinum, 50 – 120 µm crassum ex hyphis dense compactis, contortis apice circinatis. Probasidia subsphaerica vel sphaerica, 5.8 – 7.2 µm, maturitate germinantia basidium formantia. Basidium 3.8 – 4.4 x 20 – 32 µm, 1-septatum. Sterigmata 18 – 25 µm longa. Sporae laeves, allantoideae, 4 – 5 x 11.5 – 16.8 µm [Couch]. Holotype: North Carolina, near Magnolia, on *Cornus florida*, Jan. 1928, A.C. Mathews 8301 at NCU.*
- S. siparium*** (Berk. & A.M. Curtis) Bres. [179]. Location of type unknown to us.
- S. spiniferum*** Burt [271]. Isotype: Chile, Concepción, dry scrub, Nov. 1905, Thaxter coll. at NCU!
- S. spongium*** (Berk. & Curt.) Pat. [187]. Holotype at FH as FH-Pat. 1099.
- * ***S. stevensonii*** Couch, *sp. nov.* [186]. *Basidiocarpus resupinatus, maculam magnam formans, brunneus,*

*purpureo-tinctus ad sordide roseo vel atrobrunneus, superficiei iuventute gossypina maturitate minute granulosa, compacta, regione marginale indeterminata. Basidioma in sect. transv. 300 – 600 (raro 1000) µm crassa e partibus tribus constructa. Subiculum ca. 300 µm crassum, ex (1) hyphis reptantis, 4 – 5 µm latis, brunneis, laxitextis, et (2) hyphis erectis, hyalinis vel ambarinis, 4 µm latis, ramificatis, contextum formans. Hymenium 40 – 65 µm crassum, ex hyphis 2.8 – 3.5 µm latis, erectis vel pauce curvatis, ramificatis, tenuitunicatis, probasidiis et basidiis instructum. Probasidia sphaerica, 9.6 – 12.6 µm, hyalina maturitate persistentia. Basidia cylindrica, distaliter inflata, 6.3 – 7.6 x 37 – 50 µm, 4-cellulata. Sterigmata 7 – 10 µm longa. Sporae 4.2 – 5.4 x 13.4 – 16.8 µm, ellipticae, tortae [Couch]. Holotype: Puerto Rico, Bayamon, on *Citrus* sp., J. A. Stevenson coll., Oct. 1, 1917 at NCU! The original spelling was “stevensoni” changed in accordance with the ICBN Art. 60.11 (Greuter *et al.* 2000).*

- S. stratiferum*** Boedijn & B.A. Steinm. [199]. Isotype: Java, Tjisaroea, on *Ficus lepigarpa*, Boedijn 47, July 1930 at NCU!
- * ***S. stratosum*** Couch, *sp. nov.* [96]. *Basidiocarpus resupinatus, brunneus vel sepiaceus, superficiei aspera, margine determinata. Basidioma 1 – 1.5 mm crassa, e partibus tribus composita. Subiculum ca. 700 µm crassum, indistinctum. Columnae tenuissimae, ca. 600 µm altae. Hymenium 1- 7- stratificatum, unusquisque 30 – 40 µm, ex hyphis ca. 2 µm latis, hyalinis, e probasidiis et basidiis. Probasidia globosa vel subglobosa, 9.2 – 11.7 x 12 – 17 µm, ab initio hyalina tunc brunnescens. Basidia cylindrica, recta vel leviter flexa, 6 – 7 x 29 – 36 µm, 2-cellulata, caduca. Sporae 5 – 5.4 x 14.7 – 21 µm, ellipticae, curvatae [Couch]. Holotype: Brazil, Cochoeira, Aug. 23, 1923, J. R. Weir coll. on *Hevea brasiliensis*, at BPI 269201. Isotype: Brazil, Cochoeira, Grande Manaus, Aug. 23, 1923, J. R. Weir coll., on *Hevea brasiliensis* at NCU!*
- S. subcarbonaceum*** (Berk. & Br.) Couch, *comb. nov.* [197]. *Thelephora subcarbonacea* Berk. & Br. (J. Linn. Soc. London Bot. 14: 64. 1873). Akin to *Septobasidium arachnoideum* (Berk. & Br.) Bres. from which it differs in the less compacted growth,

- the sparsely branched hyphae and straight basidia.
- S. sublilacinum** (Ellis & Ev.) Burt [279]. Location of type unknown to us.
- S. subolivaceum** Sydow [126]. Location of type unknown to us.
- S. suffultum** (Berk. & Br.) Pat. [144]. Essai Tax. Hymén. p. 10, 1900 & Bull. Soc. Myc. Fr. 24: 2, 1908. Based on *Thelephora suffulta* Berk. & Br. (J. Linn. Soc. Bot. 14: 63. 1873) also combined by Bresadola as *Septobasidium* (Ann. Mycol. 14: 142. 1909). Holotype: Thwaites 669, July 1868, from Ceylon at FH under FH-Pat.1100.
- * **S. sydowii** Couch, *sp. nov.* [236]. See J. Elisha Mitchell Sci. Soc. 51: 47. 1935. *Basidiocarpus resupinatus, castaneus vel atrans, superficiei conspicue fissurata, regione marginale determinata, minute perforata. Basidioma in sect. transv. 1 – 1.5 mm crassa, compacta, firma, e partibus duobus composita. Contextum stratosum ex hyphis brunneis, 3.6 – 5 µm latis, raro septatis, efibulatis, intricatis, parce ramificatis. Hymenium 90 – 115 µm crassum, stratosum, ex hyphis dilute brunneis vel subhyalinis, 2.8 – 3.5 µm latis. Probasidia subglobosa vel ovoidea, 9 – 10.5 x 13 – 15 µm maturitate germinantia basidium formantia. Basidia 1-cochleata, 6 – 7 x 30 – 40 µm, 4-cellulata. Sterigmata 6 – 10 µm longa. Sporae 3.8 – 4.3 x 15.5 – 20 µm, ellipticae, curvatae vel sigmoideae, 3-septatae [Couch]. Holotype: Philippines, Sorsogon, on *Pterocarpus* sp., Elmer coll., NCU no.14820 at NCU!*
- * **S. taxodii** Couch, *sp. nov.* [193]. J. Elisha Mitchell Sci. Soc. 51: 48. 1935. *Basidiocarpus resupinatus, crustosus, tenuissimus, sordide fulvus, superficiei spongiosa vel aspera, regione marginale indeterminata. Basidioma in sect. transv. 100 – 250 µm crassa, non stratificata. Contextum ex hyphis brunneis, 2.1 – 4.2 µm latis, dense intricatis, septatis, ramificatis, distaliter curvatis. Probasidia sphaerica, maturitate germinantia basidium formantia. Basidia cochleata, 5 – 6.3 x 33 – 40 µm, 4-cellulata. Sterigmata 5 – 6 µm longa. Sporae dubiae visae [Couch]. Holotype: Louisiana, Opelousas, on *Taxodium distichum*, Apr. 16, 1932, P. R. Miller 5 at BPI 269206, a fragment at NCU! Isotype at BPI 269297.*
- * **S. tenue** Couch, *sp. nov.* [128]. See J. Elisha Mitchell Sci. Soc. 51: 58. 1935. *Basidiocarpus resupinatus, murinus vel griseo-brunneus, sepiaceo-tinctus, superficiei laevi praeter minute foveolata, regione marginale determinata. Basidioma in sect. transv. 100 – 225 µm crassa, (generaliter ca. 125 µm), non stratificata vel indistincte composita. Contextum ex hyphis hyalinis, 3.2 – 4.2 µm latis, intricatis, septatis, ramificatis, dense incrassatis, circinatis. Probasidia ut videtur nulla sed cellula incrassata basidium formantia est. Basidia 6.3 – 7.5 x 29 – 37(50) µm, cochleata, torta, 4-cellulata. Sporae (2.5)3.2 – 4.2 x (13)16.8 – 22 µm, elliptico-curvatae, 4-8-septatae [Couch]. Holotype: SC, near Charleston, on *Quercus*, Couch coll. at FLAS F7676, isotypes at BPI 269211 and 269212.*
- S. theae** Boedijn & B.A. Steinm. [259]. Present location of type unknown to us.
- S. thwaitesii** (Berk. & Br.) Pat. [223]. Holotype at FH as FH-Pat. 1101.
- S. tigrinum** Boedijn & B.A. Steinm. [268]. Isotype: Java, on *Thea*, July 1927, Steinmann coll. at NCU!
- * **S. tomentosum** Couch, *sp. nov.* [267]. *Basidiocarpus resupinatus, inconspicuus, crustosus, brunneus, superficiei sub lente lanata, irregulariter et disperse sinuoso-punctulata, margine indeterminata. Basidioma in sectione transversali tenuissima, –600 µm, e partibus duobus constata. Subiculum tenuissimum sed 40 – 100 µm crassum, ex hyphis 3 – 3.5 µm latis, compactis, brunneis, et hyphis erectis, 3 – 4.2 µm latis, ramificatis, plerumque septatis, septo leviter constrictis, supra conidia ramificata, cylindrica vel elliptica vel elongato-ovata, 4 – 5 x 6.3 – 12.6 µm formantia. Probasidia, basidia nulla [Couch]. Holotype: Australia, North Queensland, on *Citrus* sp., July 1936, ex Herb. Plant Pathology Brisbane no. 4516 at NCU under herb. no. 10319.*
- S. triviale** Boedijn & B.A. Steinm. [141]. Location of type unknown to us.
- S. tropicale** Burt [209]. Holotype: Mexico, on *Quercus*, Pringle coll. June 1915, at BPI 269216.
- S. tuberculatum** Boedijn & B.A. Steinm. [291].

Location of type unknown to us.

- * *S. ugandae* Couch, *sp. nov.* [161]. *Basidiocarpus resupinatus, cinnamomeus vel fuscus vel ligneo-brunneus, superficiei laevi vel minute pulverata vel distincte punctata, margine abrupte determinata, minutissime fimbriata. Basidioma in sect. transv. 200 – 450 µm crassa, e partibus tribus instructa. Subiculum 21 – 84 µm crassum, ex hyphis 3 – 3.8 µm crassis, septatis, dense imbricatis. Columnae 60 – 168 x 40 µm ex hyphis erectis, 3.2 – 4 µm latis, ambarinis vel hyalinis. Hymenium 40 50 µm crassum, ex hyphis 3.2 – 4 µm latis, imbricatis, compactis, apicaliter curvatis. Probasidia globosa, 12.6 – 14 µm, vel ovoidea, 10.5 – 13.4 x 13.8 – 28.5 µm. Basidia cylindrica, 7.4 – 8.4 x 44 – 54 µm, apicaliter acuminata, 4-cellulata. Sterigmata curta. Sporae 4.2 – 5.4 x 18 – 25.5 µm, elliptico-curvatae [Couch]. Holotype: Uganda, on *Loranthus* sp., 1915, T. D. Haitland coll., at NCU!*

S. ussanguense (P. Henn.) Lloyd [208]. Location of type unknown to us.

S. velutinum Pat. [97]. Holotype: Ecuador, Chimbo, on *Citrus*, Lagerheim coll., Aug. 1891, at FH under FH-Pat. 1102.

- * *S. verrucosum* Couch, *sp. nov.* [257]. *Basidiocarpus resupinatus, verrucosus, atrobrunneus, regione vegetativa marginale indeterminata. Basidioma duobus partibus composita. Subiculum ex hyphis multiseptatis, ramificatis, fuscis. Verrucae prope in sect. transv. 2-stratificatae, basim pseudoparenchymatosae, 400 – 1000 µm crassae, ex hyphis 4 – 6 µm latis, supra hymenium formantia. Hymenium 160 – 450 µm crassum, ex hyphis 3 – 4.2 µm, pluriseptatis, ramificatis. Probasidia nulla. Basidia 5.8 – 6.7 x 20 – 25 µm 4-cellulata. Sterigmata ut videtur nulla. Sporae 4 – 4.2 x 16 – 16.8 µm, ellipticae, flexae [Couch]. Holotype: California, Riverside, on *Quercus agrifolia*, 1915, H. S. Fawcett at NCU!*

- * *S. westonii* Couch, *sp. nov.* [120]. *Basidiocarpus resupinatus, lignibrunneus vel pallide vinaceo-bubalinus, superficiei laevi, margine determinata, fimbriata. Basidioma 350 – 700 µm crassa, e partibus tribus composita. Subiculum tenuis. Columnae 20 – 40 x 320 – 420 m, ex hyphis 4.2 – 5.4 µm*

*brunneis, septatis, efibulatis. Hymenium 35 – 45 µm crassum. Probasidia nulla. Basidia helicoidea, 4 – 5 x 30 µm, 3-septata. Sterigmata ut videtur nulla. Sporae 3.8 x 15.5 µm, ellipticae, curvatae. Conidia elliptica, numerosa [Couch]. Holotype: Panamá, Barro Colorado Island, on *Aechmea magdalenae*, Nov. 28, 1928, W. H. Weston coll. at NCU!*

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