

STUDIES IN MYCENAS—15

A tentative subdivision of the genus *Mycena* in the
northern Hemisphere

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The genus *Mycena* is subdivided into 23 sections, three of which are further subdivided into subsections. A number of these sections are described as new or proposed as new combinations, as follows. *Mycena* sect. *Luculentae* (with the subsections *Elegantes*, *Rosellae*, and *Pterigenae*), *M. sect. Polyadelphia*, *M. sect. Monticola*, *M. sect. Cinerellae*, *M. sect. Intermediae*, *M. sect. Pudicae*, *M. sect. Rubromarginatae*, subsections *Purae* and *Violacellae* (of sect. *Calodontes*), subsections *Hiemales* and *Omphaliariae* (of sect. *Hiemales*).

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PREFACE, ACKNOWLEDGMENTS

Perhaps it is no exaggeration to state that great effort is involved in finding one's way in the genus *Mycena*. Of course, there are two excellent monographs, by R. Kühner (1938) and A. H. Smith (1947), while much and useful work has been done by such authors as J. E. Lange, P. Konrad & A. Maublanc, R. Singer, and several others. But, none the less, the difficulties remained. Some of these difficulties, I am convinced, originate from the fact that as far as the subdivision of the genus is concerned every author seemed to speak a mycologically different language. Inevitably, this resulted in a great many synonyms which to sort out has been the aim of the present paper.

In order to remove all doubts, the genus *Mycena* in this paper is largely taken in the sense and circumscription as given by Singer (1975). I also followed to some extent his taxonomic arrangement. However, as is apparent from the subtitle of this paper, the names of the subgeneric taxa accommodating the species of *Mycena* of the southern Hemisphere have been left out of account. Even with my field confined within so much narrower limits, I have not been able to assign every single species to its proper place.

It is to be regretted that because of belated delivery of the Bull. mens. Soc. linn. Lyon I have been unable to take into account the part on *Mycena* in Kühner's series entitled 'Les grandes lignes de la classification des Agaricales'. The instalments published in 1979 were received after I had completed my manuscript.

I owe a great debt to the late Dr. M. A. Donk whose preliminary work on subdivisional names in *Mycena* stored away in his card index saved me many months of patiently combing the literature; in many cases I have followed his suggestions as to the choice of lectotypes. Special thanks are given to Dr. M. Svřček (Praha) for the gift of some of Velenovský's works. Acknowledgment is also made to the Director of the 'Rijksherbarium' for providing working facilities.

KEY TO SECTIONS AND SUBSECTIONS

1. Pileus viscid, hyphae of pileipellis forming a gelatinous, separable layer.
 2. Basidiomata with bluish or blue-green colours, usually at the base of the stipe, sometimes also at the margin of the pileus: § *Viscipelles*, p. 98
 2. Basidiomata without bluish colours.
 3. Cheilocystidia smooth or forked to somewhat branched, or apically with few excrescences.
 4. Lamellae remaining attached to the stipe. Stipe without basal disc.
 5. Pileus glabrous. Spores pip-shaped: § *Caespitosae*, p. 110
 5. Pileus puberulous to tomentose. Spores elongate to almost cylindrical: § *Calamophilae*, p. 111
 4. Lamellae free or stellately seceding from the stipe. Stipe with more or less pronounced, pubescent basal disc: § *Basipedes*, p. 97
 3. Cheilocystidia with numerous, shorter or longer and variously shaped, often contorted excrescences.
 - 5*. Basidiomata with yellowish, more rarely purplish, colours. Lamellae ascending, decurrent with a tooth: § *Hygrocyboideae*, p. 109
 - 5*. Basidiomata with brownish, more rarely whitish, colours. Lamellae arcuate to more or less horizontal: § *Fuliginellae*, p. 110
1. Pileus dry or moist, in some cases becoming lubricous, but pileipellis not separable as a gelatinous layer.
 6. Basidiomata growing on woody substrata. Pileus with granular to floccose surface, white to greyish, densely covered with vesiculose to elongate, diverticulate cells. Lamellae ascending, narrowly adnate: § *Sacchariferae*, p. 96
 6. Basidiomata differently characterized.
 7. Entire pileus brightly coloured (bright pink, orange, red; not yellow or white). Stipe not brownish. Odour, on drying, not of iodoform. Spores amyloid.
 8. Lamellae subhorizontal, broadly adnate. Pleurocystidia present. Pileipellis somewhat gelatinized: § *Luculentae-Rosellae*, p. 102
 8. Lamellae ascending-uncinate. Pleurocystidia absent. Pileipellis not gelatinized: § *Luculentae-Pterigenae*, p. 102
 7. Differently characterized.
 9. Stipe bright pink. Spores hardly, if at all, amyloid. Cheilocystidia diverticulate. Pleurocystidia absent. Pileipellis somewhat gelatinized (but not separable): § *Monticola*, p. 103
 9. Differently characterized.
 10. Spores practically always amyloid; where spores are (or seem to be) non-amyloid, lamellar trama stains vinaceous to purplish brown in Melzer's reagent.

11. Lamellae with the edge of a different colour (deep yellow, pinkish brown, red-brown, purplish brown, olive brown, blackish, dark greenish) and usually more intensely coloured than the sides, except in one case where the stipe is deep yellow throughout. Lamellae ascending, not tinged purplish on the sides. Stipe not exuding red juice when cut. Cheilocystidia either smooth or somewhat branched or variously covered with long and often contorted excrescences. Hyphae of the pileipellis usually diverticulate.
 - § *Rubromarginatae*, p. 106
11. Differently characterized.
 12. Lamellae with the edge yellow, orange, orange-red, or purplish brown.
 13. Cheilocystidia more or less densely, only apically, and usually very regularly covered with warts or longer excrescences (cheilocystidia with long, irregularly shaped and/or branched excrescences being rare and always mixed with the usual warted kind). Lamellae ascending:
 - § *Luculentae-Elegantes*, p. 101
 13. Cheilocystidia smooth. Lamellae more or less horizontal, tinged purplish. Hyphae of the pileipellis smooth: . . . § *Calodontes-Marginatae*, p. 112
 12. Lamellae with the edge concolorous with the sides or paler to whitish.
 14. Cheilocystidia apically, more rarely ventrally, covered with shorter or longer excrescences; the former (shorter) kind usually very numerous, the latter often variously shaped, branched and/or contorted.
 15. Spores pip-shaped.
 16. Cheilocystidia with apical excrescences.
 17. Basidiomata small to minute, growing on non-woody stems or dead leaves. Stipe insititious or with mycelial filaments radiating from the base: . . . § *Polyadelphia*, p. 103
 17. Differently characterized.
 18. Lamellae ascending; edge convex.
 19. Stipe fragile. Cheilocystidia as a rule densely and regularly covered with warts or somewhat longer (but mostly narrow) excrescences: . . . § *Filipedes*, p. 99
 19. Stipe rigid or elastic-tough. Cheilocystidia sparingly to moderately covered with variously shaped, not infrequently branched and contorted excrescences:
 - § *Mycena*, p. 100
 18. Lamellae horizontal to arcuate-decurrent; edge in some species more pronouncedly concave than in others:
 - § *Cinerellae*, p. 104
 16. Cheilocystidia with warts or longer excrescences usually in the ventral part: . . . § *Intermediae*, p. 104
 15. Spores spherical or almost so: . . . § *Supinae*, p. 98
 14. Cheilocystidia smooth, not infrequently apically attenuated to form a neck, sometimes with a furcate neck, or somewhat branched or with few prominent excrescences.
 20. Basidiomata small, fragile, white. Pileus and stipe puberulous. Lamellae horizontal to somewhat arcuate: . . . § *Pudicae*, p. 105
 20. Differently characterized.
 21. Lamellae ascending.
 22. Stipe exuding a watery, milky or coloured juice when cut:
 - § *Lactipedes*, p. 108
 22. Stipe not thus characterized: . . . § *Fragilipedes*, p. 106
 21. Lamellae more or less horizontal, mostly tinged lilac to purplish. Stipe not exuding a copious juice when cut. Hyphae of the pileipellis smooth.

23. Spores amyloid. Edge of the lamellae smooth to fimbriate:
 § *Calodontes-Purae*, p. 112
23. Spores non-amyloid. Edge of the lamellae coarsely corroded-
 crenate: § *Calodontes-Violacellae*, p. 112
10. Spores non-amyloid. Lamellae not flesh-coloured or violaceous. Lamellar trama not staining vinaceous in Melzer's reagent or only weakly reddish.
24. Pileus whitish, generally tinged brownish, never violaceous, centrally sometimes very dark; exceptionally pure white but then pileus not hygrophanous.
25. Lamellae ascending, edge convex: § *Hiemales-Hiemales*, p. 114
25. Lamellae more or less horizontal to arcuate, edge concave:
 § *Hiemales-Omphaliariae*, p. 115
24. Pileus brightly coloured (yellow, orange, red, pink, pure white), hygrophanous, at least in the white forms.
26. Hyphae of the stipe continuous with those of the pileus: . § *Adonideae*, p. 112
26. Hyphae of the stipe abruptly distinct from those of the pileus:
 § *Aciculae*, p. 114

SYNONYMY AND DESCRIPTIONS
OF THE SUBDIVISIONS

MYCENA (Pers. ex Fr.) S. F. Gray

Agaricus [sect.] *Mycena* Pers., Tent. Fung. Suppl.: 69. 1797. — *Agaricus* sect. *Mycena* Pers., Syn. meth. Fung.: xvi, 375. 1801. — *Agaricus* trib. *Mycena* Pers. ex Fr., Syst. mycol. 1: 9, 140. 1821. — *Mycena* (Pers. ex Fr.) S. F. Gray, Nat. Arr. Br. Pl. 1: 619. 1821. — Lectotype (Donk, 1962: 190): *Mycena galericulata* (Scop. ex Fr.) S. F. Gray.

Basidiomata small to large, of mycenoid or omphalioid habit, more rarely collybioid. Pileus glabrous, granular, floccose, puberulous, or pruinose, sometimes covered with a gelatinous, separable pellicle. Lamellae ascending, horizontal or arcuate, almost free or narrowly adnate to decurrent. Stipe fragile to cartilaginous or elastic-tough, in part or entirely pruinose or puberulous, or glabrous, sometimes dilated below to form a basal disc, often basally covered with long, coarse fibrils. Basidia 2- or 4-spored. Spores usually pip-shaped, less frequently almost cylindrical or spherical, generally amyloid, more rarely non-amyloid. Cheilocystidia clavate, obpyriform, fusiform, lageniform or, more rarely, cylindrical, smooth, branched or with variously shaped, simple or branched excrescences. Pleurocystidia numerous, scarce or absent. Hyphae of the pileipellis diverticulate, less frequently smooth. Lamellar trama staining vinaceous to purplish brown in Melzer's reagent, in a few cases remaining unaltered.

1. Sect. SACCHARIFERAE Kühn. ex Sing.

Mycena [sect.] *Sacchariferae* Kühn., Genre *Mycena*: 159, 205. 1938 (not val. publ.: no Latin descr.); Sing. in Annl. mycol. 41: 137. 1943 (formally accepted as section; not val. publ.: no Latin descr.); *Mycena* sect. *Sacchariferae* Kühn. ex Sing. in Sydowia 15: 65. 1962. — *Mycena* subsect. *Sacchariferae* (Kühn.) Métrod in Prodr. fl. mycol. Madagasc. 3: 19, 21, 26. 1949 (not val. publ.: no Latin descr.). — Lectotype (Sing., 1951: 356): *Mycena tenerrima* (Berk.) Quéf.

Pseudomycena Cejp in Publ. Fac. Sci. Univ. Charles 104: 138, 157. 1930. — *Mycena* subgen. *Pseudomycena* (Cejp) A. H. Smith, N. Am. spec. *Mycena*: 38, 44. 1947. — Lectotype (Donk, 1962: 254): *Mycena tenerrima*.

Mycena sect. *Tenerrimae* A. H. Smith, N. Am. spec. *Mycena*: 38, 44, 45. 1947 (not val. publ.: no Latin descr.). — Lectotype (Donk, unpublished): *Mycena tenerrima*.

Mycena stirps *Tenerrima* A. H. Smith, N. Am. spec. *Mycena*: 38. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena tenerrima*.

Basidiomata delicate, never blue. Pileus not gelatinizing, powdered with vesiculose cells which are covered with warts or minute cylindrical excrescences. Lamellae ascending. Stipe covered with hairs below or somewhat woolly, with slightly incrassate base or widened into basal disc. Basidia 2- or 4-spored. Spores amyloid. Cheilocystidia clavate to fusiform, covered with warts or minute cylindrical excrescences.

SPECIES.—*Mycena nucicola* Huijsm., *M. osmundicola* J. E. Lange, *M. tenerrima* (Berk.) Quél.

Imazeki & Toki (1955: 8) described a *Mycena cryptomeriaecola* which they took to be related to the other members of the present section, although they were well aware of the differences, one of the more serious of which is that the spores of their species were said to be non-amyloid.

2. Sect. BASIPEDES (Fr.) Quél.

Agaricus [sect.] *Basipedes* Fr., Epicr. Syst. mycol.: 117. 1838; Cooke, Handb. Br. Fungi 1: 75. 1871 (formally accepted as section). — *Mycena* [sect.] *Basipedes* (Fr.) Quél., Champ. Jura Vosges: 109. 1872; Sing. in Anns mycol. 41: 137. 1943 (formally accepted as section). — *Pseudomyцена* sect. *Basipedes* (Fr.) Cejp in Publ. Fac. Sci. Univ. Charles 104: 139. 1930. — Lectotype (Kühn., 1931: 125): *Mycena stylobates* (Pers. ex Fr.) Kummer.

Basidopus Earle in Bull. N. Y. bot. Gdn 5: 426. 1909. — Type species (Earle, l.c.): *Mycena stylobates*.

Mycena stirps mucor A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena mucor* (Batsch ex Fr.) Gillet.

Mycena stirps longiseta A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Monotype: *Mycena longiseta* Höhn.

Mycena stirps stylobates A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena stylobates*.

Basidiomata fairly small, without blue or green colours. Pileus often not exceeding 10 mm, pileipellis gelatinous. Lamellae ascending to subhorizontal, free or stellately seceding from the stipe. Stipe with more or less pronounced, pubescent basal disc made up of inflated hyphae; hyphae at the apex of the stipe abruptly distinct from those of the pileus. Basidia 4-spored. Spores amyloid or, in one case, inamyloid. Cheilocystidia somewhat variable, usually more or less clavate, smooth or sparingly branched or with few plump to very slender excrescences.

SPECIES.—*Mycena bulbosa* (Cejp) Kühn., *M. clavularis* (Batsch ex Fr.) Sacc., *M. longiseta* Höhn., *M. mucor* (Batsch ex Fr.) Gillet, *M. stylobates* (Pers. ex Fr.) Kummer, *M. tenuispinosa* Favre.

Kobayasi (1951: 4) described a new species which he called *Mycena pseudostylobates* (an earlier homonym of *M. pseudostylobates* Sing. unless the latter is actually meant as an anagram!) and which he thought 'to be very near to *Mycena stylobates* Fr. and *Mycena mucor* Fr.' However, he failed to mention the presence, on the pileus, of a detachable gelatinous pellicle, and the apparent lack of cheilocystidia renders it doubtful whether the species belongs at all to *Mycena*.

Another species placed in this section is *M. gaultheri* A. H. Smith (1947: 51), which was followed by Singer (1951: 357; 1975: 388), but this disposition may well prove to be untenable. (i) Smith did not indicate whether the stipe in *M. gaultheri* is separable from the pileus, a character which he did not fail to observe in *M. stylobates*, and which appears to be a feature common to the members of the present section enumerated above. (ii) The cheilocystidia of *M. gaultheri* as depicted by Smith (fig. 1: 9) are altogether different from the kind prevailing in the species of sect. *Basipedes*.

3. Sect. VISCIPELLES Kühn.

Mycena [sect.] *Viscipelles* Kühn. in Bull. bimens. Soc. linn. Lyon 10: 125. 1931; Sing. in Lilloa 22: 357. ('1949') 1951 (formally accepted as section). — Lectotype (Sing., 1951: 357): *Mycena cyanorhiza* Quél. sensu Kühn.

Mycena subgen. *Insiticia* Kühn. in Botaniste 17: 93. 1926. — *Mycena* [rank?] *Insiticia* (Kühn.) Kühn., Genre *Mycena*: 172. 1938. — Lectotype (Donk, unpublished): *Mycena pachyderma* Kühn.

Mycena [sect.] *Insititiae* Kühn. in Botaniste 17: 93. 1926 (illegitimate: later homonym); not *Mycena* sect. *Insititiae* (Fr.) Quél., 1872: 109. — Type species (Kühn., l.c.): *Mycena pachyderma*.

Mycena [sect.] *Cyanescentes* Kühn., Genre *Mycena*: 159, 190. 1938 (not val. publ.: no Latin descr.); Sing. in Anns mycol. 41: 137. 1943 (formally accepted as section; not val. publ.: no Latin descr.). — Lectotype (Donk, unpublished): *Mycena cyanorhiza* sensu Kühn.

Mycena stirps *Amicta* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena amicta* (Fr.) Quél.

Basidiomata small to moderately large, with bluish or blue-green pigment, usually at the base of the stipe, less frequently also at the margin of the pileus. Pileus viscid. Lamellae ascending. Stipe without basal disc, puberulous to tomentose. Basidia 4-spored. Spores amyloid. Cheilocystidia (i) short, clavate or ovoid, and covered with few, flexuous excrescences, or (ii) elongate, cylindrical to somewhat fusiform, smooth. Hyphae of the pileipellis embedded in a gelatinous, separable layer.

SPECIES.—*Mycena amicta* (Fr.) Quél., *M. cyanorhiza* Quél. sensu Kühn., *M. pachyderma* Kühn., *M. subcaerulea* (Peck) Sacc.

Kühner (1938: 202) held the opinion that *Mycena cyanescens* Vel. also belonged to this section, although it differs appreciably from the other members (the stipe shows no bluish pigment but turns blue only when rubbed; the cheilocystidia have a broadly rounded head and are said to have yellow contents). Later on (Kühner & Romagnesi, 1953) the name of the species was dropped.

Singer (1951: 356) pointed out that the binomial *M. cyanescens* of Velenovský, being a later homonym of *M. cyanescens* (Mont.) Sacc., could not be used and turned to *M. cyanipes* Godey which he thought to be synonymous. I am by no means convinced, however, that *M. cyanescens* Vel. and *M. cyanipes* really are identical. The descriptions of both, reproduced by Kühner (1938: 202–203), show discrepancies too serious to be disregarded.

Even with these two species removed, the section seems to me to be an oddly disparate assemblage.

4. Sect. SUPINAE Konr. & Maubl.

Mycena sect. *Supinae* Konr. & Maubl., Ic. sel. Fung. 6: 274. 1934. — Lectotype (Donk, unpublished): *Mycena supina* (Fr.) Gillet.

Mycena [rank?] *Exsuccae* Kühn., Genre *Mycena*: 160, 237. 1938 (not val. publ.: no Latin descr.). — *Mycena* sect. *Exsuccae* (Kühn.) Sing. in Anns mycol. 41: 138. 1943 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena supina*.

Mycena [subsect?] *Corticolae* Kühn., Genre *Mycena*: 160, 237. 1938 (not val. publ.: no Latin descr.). — *Mycena* stirps *Corticola* (Kühn.) Sing. in Anns mycol. 41: 138. 1943; in Lilloa 22: 358. ('1949') 1951 (inadmissible term denoting rank). — *Mycena* sect. *Corticolae* (Kühn.) A. H. Smith, N. Am. spec. *Mycena*: 39, 60, 66. 1947 (not val. publ.: no Latin descr.). — *Mycena* subsect. *Corticolae* (Kühn.) Sing., Agar. mod.

taxon., 3rd ed.: 389. 1975 (not val. publ.: no Latin descr.). — Lectotype (Sing., 1975: 389): *Mycena corticola* sensu Pat., Kühn.

Mycena [ser?] *Calodontes* Kühn., Genre *Mycena*: 238. 1938 (nomen nudum). — Monotype: *Mycena venustula* Quél.

Mycena [ser?] *Concolores* Kühn., Genre *Mycena*: 240. 1938 (nomen nudum). — Lectotype (here chosen): *Mycena supina*.

Mycena stirps *Corticola* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena corticola* sensu Kühn.

Mycena stirps *Supina* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena supina*.

Basidiomata small, inhabiting wood or bark of living trees. Pileus pruinose to floccose, more rarely glabrous. Lamellae little ascending, usually more or less horizontal and broadly adnate. Stipe with the base pubescent, tomentose or strigose. Basidia 2- or 4-spored. Spores spherical or almost so, amyloid. Cheilocystidia clavate to pyriform, apically covered with short to fairly long, simple to branched, and sometimes irregularly shaped excrescences. Pleurocystidia scarce or absent.

SPECIES.—*Mycena corticalis* A. H. Smith, ?*M. madronicola* A. H. Smith, *M. meliigena* (Berk. & Cooke apud Cooke) Sacc. (= *M. corticola* sensu Kühn.), *M. pseudocorticola* Kühn., *M. supina* (Fr.) Kummer, *M. venustula* Quél.

In connection with the present section, attention must be drawn to an old sectional name. This is sect. *Insititiae* (Fr.) Quél., originally published by Fries (1838: 118) as *Agaricus* [sect.] *Insititii* ('*Insititiae*'). Earle (1909: 425) was prompted to raise this section to generic level under the name *Insiticia*, of which he indicated *Agaricus corticola*, as Fries must have known it, as the type species. It is not difficult to see that this choice has led Donk (unpublished) to select the same species as the lectotype of sect. *Insititiae*. As explained in a previous paper (Maas Geesteranus, 1979: 280), there are two concepts regarding the interpretation of the specific epithet *corticola*: (i) Singer had pointed out that the species as redescribed by Kühner must be renamed *M. meliigena* (Berk. & Cooke apud Cooke) Sacc., with which I agree; (ii) *Agaricus corticola* as understood by Fries, however, is a nomen ambiguum. It follows that the name of a section typified by an unidentifiable species cannot be used.

5. Sect. FILIPEDES (Fr.) Quél.

Agaricus [sect.] *Filipedes* Fr., Epicr. Syst. mycol.: 111. 1838 ('*Filipedes*'); Cooke, Handb. Br. Fungi 1: 70. 1871 ('*Filipedes*', formally accepted as section). — *Mycena* [sect.] *Filipedes* (Fr.) Quél., Champ. Jura Vosges: 106. 1872 ('*Filipedes*'). — *Mycena* [subject?] *Filipedes* (Fr.) Kühn., Genre *Mycena*: 161, 279. 1938. — *Mycena* subject. *Filipedes* (Fr.) Métrod in Prodr. fl. mycol. Madagasc. 3: 20, 21, 33. 1949. — Lectotype (here chosen): *Mycena filopes* (Bull. ex Fr.) Kummer.

Linopodium Earle in Bull. N. Y. bot. Gdn 5: 427. 1909. — Type species (Earle, l.c.): *Mycena filopes*.

Mycena stirps *Vitilis* Sing. in Anns mycol. 41: 138. 1943 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena vitilis* sensu Kühn. (= *Mycena filopes*).

Mycena stirps *Metata* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena metata* (Fr.) Kummer.

Mycena stirps *Filipes* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena filopes*.

Basidiomata fairly small to medium large. Pileus dry. Lamellae ascending, narrowly adnate, usually rather narrow but with the edge always convex. Stipe usually elongate, narrow, fragile, never viscid, at the base covered with long, coarse fibrils. Basidia 2- or 4-spored. Spores amyloid. Cheilocystidia clavate to obpyriform or vesiculose, more rarely somewhat irregularly shaped, more or less densely covered apically with warts or elongate excrescences. Pleurocystidia more or less similar or absent. Hyphae of the pileipellis (as far as known) diverticulate.

SPECIES.—? *Mycena alcaliniformis* (Murrill) Murrill, *M. alexandri* Sing., *M. atroalboides* Peck, *M. filopes* (Bull. ex Fr.) Kummer, *M. hudsoniana* A. H. Smith, ?*M. lineata* (Bull. ex Fr.) Kummer (a species about which I am as yet somewhat uncertain), *M. metata* (Fr.) Kummer, *M. mirata* (Peck) Sacc., *M. oortiana* Hora, *M. peyerimhoffii* Maire, *M. rapiolens* Favre, *M. sepia* sensu Lundell (see Maas Geesteranus, 1980b: 185), *M. urania* (Fr. ex Fr.) Quéél., *M. xantholeuca* Kühn.

'*Filipedes*' is the grammatically correct form, and Fries (1874: 4, 144) changed the sectional name accordingly. But the specific epithet of *Mycena filopes*, being the time-honoured notation, is maintained.

6. Sect. *Mycena*

Agaricus trib. *Propriae* Fr., Obs. mycol. 2: 155. 1818. — Lectotype (Donk, unpublished): *Agaricus galericulatus* Scop.

Agaricus [sect?] *Mycenae-genuinae* Fr., Syst. mycol. 1: 140. 1821. — Lectotype (here chosen): *Agaricus galericulatus*.

Agaricus [sect.] *Rigidipedes* Fr., Epicr. Syst. mycol.: 104. 1838; Cooke, Handb. Br. Fungi 1: 67. 1871 (formally accepted as section). — *Mycena* [sect.] *Rigidipedes* (Fr.) Quéél., Champ. Jura Vosges: 104. 1872; Sing. in Lilloa 22: 357. ('1949') 1951 (formally accepted as section). — *Mycena* [subsect?] *Rigidipedes* (Fr.) Kühn., Genre *Mycena*: 161, 317. 1938. — *Mycena* groupe *Rigidipedes* (Fr.) Konr. & Maubl., Agar.: 321. 1948 (inadmissible term denoting rank). — Lectotype (Sing., 1951: 357): *Agaricus galericulatus*.

Stereopodium Earle in Bull. N. Y. bot. Gdn 5: 426. 1909. — Type species (Earle, l.c.): *Mycena galericulata*.

Mycena subgen. *Eu-Mycena* J. E. Lange in Dansk bot. Ark. 1 (5): 11, 12, 18. 1914 (inadmissible name: Art. 21. 3). — Lectotype (here chosen): *Mycena galericulata*.

Mycena sect. *Granulatae* J. E. Lange in Dansk bot. Ark. 1 (5): 11, 15, 28. 1914. — *Mycena* [rank?] *Granulatae* (J. E. Lange) Kühn., Genre *Mycena*: 237. 1938. — *Mycena* subsect. *Granulatae* (J. E. Lange) Sing. in Anns mycol. 41: 138. 1943; in Lilloa 22: 358. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 390. 1975 (illegitimate: later homonym); not *Mycena* subsect. *Granulatae* (Kühn.) Sing., 1943: 137. — Lectotype (Sing., 1951: 358): *Mycena galericulata*.

Mycena [subsect.] *Concolores* J. E. Lange in Dansk bot. Ark. 1 (5): 15, 28. 1914 (illegitimate: later homonym); not *Mycena* [subsect.] *Concolores* J. E. Lange, 1914: 13, 20. — Lectotype (here chosen): *Mycena galericulata*.

Mycena subgen. *Eumycena* Kühn. in Botaniste 17: 93. 1926 (inadmissible name: Art. 21. 3). — Lectotype (here chosen): *Mycena galericulata*.

Mycena [sect.] *Typicae* Kühn. in Botaniste 17: 93. 1926; in Bull. bimens. Soc. linn. Lyon 10: 123. 1931. — Lectotype (Donk, unpublished): *Mycena galericulata*.

Mycena [subsect.] *Agummosae* Oort in Meded. Ned. mycol. Ver. 16-17: 200, 228. 1928. — Lectotype (Donk, unpublished): *Mycena galericulata*.

Mycena subgen. *Mycenopsis* Cejp in Publ. Fac. Sci. Univ. Charles 104: 4, 7, 153. 1930. — *Mycena* [rank?] *Mycenopsis* (Cejp) Kühn., Genre *Mycena*: 160, 212. 1938; not *Mycenopsis* Vel., 1947: 35; not *Delicatula* [sect.] *Mycenopsis* Locq., 1956: 118. — Lectotype (here chosen): *Mycena galericulata*.

Mycena sect. *Typicae* Cejp in Publ. Fac. Sci. Univ. Charles 104: 4, 7. 1930. — Lectotype (here chosen): *Mycena galericulata*.

Mycena sect. *Galericulatae* Konr. & Maubl., Ic. sel. Fung. 6: 271. 1934. — Lectotype (Donk, unpublished): *Mycena galericulata*.

Mycena [subsect.] *Typicae* J. E. Lange, Fl. agar. dan. 2: 32, 43. 1936. — Lectotype (Donk, unpublished): *Mycena galericulata*.

Mycena stirps *Galericulata* Sing. in Anns mycol. 41: 139. 1943; in Lilloa 22: 359. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 390. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena galericulata*.

Mycena stirps *Pusilla* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena pusilla* A. H. Smith.

Mycena stirps *Fagetorum* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Monotype: *Mycena fagetorum* (Fr.) Gillet.

Mycena stirps *Megaspora* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena megaspora* Kauffm.

?*Mycena* stirps *Parabolica* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena parabolica* sensu Kauffm.

Mycena stirps *Inclinata* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena inclinata* (Fr.) Quél.

Mycena stirps *Galericulata* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena galericulata*.

Mycena subgen. *Mycena*; Locq., Petite fl. champ. Fr. 1: 174. 1956. — Lectotype (here chosen): *Mycena galericulata*.

Basidiomata fairly large to large, sometimes densely fasciculate. Pileus without gelatinous, detachable pileipellis but in some cases lubricous when wet. Lamellae ascending, with age tending to become subhorizontal. Stipe usually rigid and tenacious, or elastic-tough, the base covered with long, coarse fibrils, not infrequently radicating. Basidia 2- or 4-spored. Spores amyloid. Cheilocystidia clavate to subfusiform or irregularly shaped, simple to somewhat branched, more or less densely covered with short to long and then often flexuous excrescences, more rarely smooth. Pleurocystidia none.

SPECIES.—*Mycena atrochalybaea* Huijism., *M. fagetorum* (Fr.) Gillet, *M. flos-nivium* Kühn., *M. galericulata* (Scop. ex Fr.) S. F. Gray, *M. hemisphaerica* Peck, *M. inclinata* (Fr.) Quél., *M. maculata* P. Karst., *M. megaspora* Kauffm., *M. occidentalis* Murrill, *M. pusilla* A. H. Smith, *M. radicatella* (Peck) Sacc., *M. rugulosiceps* (Kauffm.) A. H. Smith, *M. tintinnabulum* (Fr.) Quél.

7. Sect. *Luculentae* Maas G., sect. nov.

Basidiomata statura media. Pileus omnino vel margine saltem laete coloratus, haud in stratum gelatinosum vergens, plerumque tamen hyphis superficialibus parietibus submucosis praeditis. Lamellae acie laete coloratae, haud albae. Stipes plus minusve elongatus. Basidia 4-sporigera. Sporae amyloideae. Cheilocystidia apice verrucis vel setulis praedita, saepius suco colorato repleta. Hyphae pileipellis verrucosae vel spinulis tenuibus munitae. — Species typica: *Mycena aurantiomarginata* (Fr.) Quél.

Basidiomata medium large. Pileus entirely or at least marginally brightly coloured, without gelatinous, detachable pellicle but frequently the hyphae of the pileipellis more or less gelatinizing. Lamellae with the edge brightly coloured but not white. Stipe more or less elongate. Basidia 4-spored. Spores amyloid. Cheilocystidia apically warted or with longer excrescences, often with coloured contents. Hyphae of the pileipellis verrucose or finely spinulose.

7.1. Subsect. *Elegantes* Sing. ex Maas G., subsect. nov.

Mycena [subsect.] *Marginatae* J. E. Lange in Dansk bot. Ark. 1 (5): 15, 28. 1914 (illegitimate: later homonym); not *Mycena* [subsect.] *Marginatae* J. E. Lange, 1914: 13, 18. — Lectotype (here chosen): *Mycena elegans* (= *M. aurantiomarginata*).

Mycena [subject?] *Calodontes* Kühn., Genre *Mycena*: 161, 265. 1938 (illegitimate: later homonym); not *Mycena* [sect.] *Calodontes* (Fr. ex Berk.) Quél., 1872: 102. — Lectotype (here chosen): *Mycena elegans*.

Mycena [ser?] *Filipedes* Kühn., Genre *Mycena*: 268. 1938 (nomen nudum). — Lectotype (here chosen): *Mycena elegans*.

Mycena stirps *Elegans* Sing. in *Annlis mycol.* 41: 138. 1943; in *Lilloa* 22: 358. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 390. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena elegans*.

Mycena subsect. *Granulatae* A. H. Smith, N. Am. spec. *Mycena*: 40, 196. 1947 (illegitimate: later homonym); not *Mycena* sect. *Granulatae* J. E. Lange, 1914: 15, 28. — Lectotype (here chosen): *Mycena aurantiomarginata*.

Mycena stirps *Elegans* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena elegans*.

Mycena (subject?) *Echinidae* Locq., *Petite fl. champ. Fr.* 1: 174. 1956 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena flavescens* Vel.

Basidiomata characteribus sicut in sect. *Luculentae* sed lamellae adscendentes angusteque adnatae, pleurocystidiis nullis vel clavatis verrucosisque.

Basidiomata with features as in sect. *Luculentae* but lamellae ascending and narrowly adnate, and either without pleurocystidia or pleurocystidia with warted apices.

SPECIES.—*Mycena aurantiomarginata* (Fr.) Quél., *M. chlorantha* (Fr. ex Fr.) Kummer, *M. flavescens* Vel., *M. strobilinoides* Peck.

7.2. Subsect. *Rosellae* Sing. ex Maas G., *subsect. nov.*

Mycena stirps *Rosella* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — *Mycena* stirps *Rosella* Sing. in *Lilloa* 22: 359. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 390. 1975 (inadmissible term denoting rank). — Monotype: *Mycena rosella* (Fr.) Kummer.

Basidiomata characteribus sicut in sect. *Luculentae* sed lamellae subhorizontales lateque adnatae, pleurocystidiis ampullaceo-fusiformibus laevibus munitae. Pileipellis subgelatinosa.

Basidiomata with features as in sect. *Luculentae* but lamellae subhorizontal and broadly adnate, and characterized in having ampullaceous to fusiform, smooth pleurocystidia. Pileipellis somewhat gelatinized (but not separable).

SPECIES.—*Mycena rosella* (Fr.) Kummer.

7.3. Subsect. *Pterigenae* Maas G., *subsect. nov.*

Mycena [ser?] *Institiae* Kühn., Genre *Mycena*: 267. 1938 (nomen nudum). — Monotype: *Mycena pterigena* (Fr. ex Fr.) Kummer.

Mycena stirps *Pterigena* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena pterigena*.

Mycena subsect. *Subincarnatae* A. H. Smith, N. Am. spec. *Mycena*: 103. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena pterigena*.

Basidiomata characteribus sicut in sect. *Luculentae* sed lamellae adscendentes-uncinatae, cheilocystidia setulis longis praedita, pleurocystidia absentia. Pileipellis haud gelatinosa. — Species typica: *Mycena pterigena*.

Basidiomata with features as in sect. *Luculentae* but lamellae ascending-uncinate, cheilocystidia with long excrescences, and pleurocystidia lacking. Pileipellis not gelatinized.

SPECIES.—*Mycena pterigena* (Fr. ex Fr.) Kummer.

Singer (1943: 138) first placed this species in stirps *Elegans*, later (1951: 358; 1975: 390) in stirps *Polyadelpa*, but it differs from both in some characters that cannot be ignored. This has led me to regard *M. pterigena* as a species in a somewhat solitary position.

8. Sect. *Polyadelpia* Sing. ex Maas G., *sect. nov.*

Mycena [subject?] *Insittitiae* Kühn., Genre *Mycena*: 161, 248. 1938 (illegitimate: later homonym); not *Mycena* [sect.] *Insittitiae* (Fr.) Quél., 1872: 109.

Mycena stirps *Polyadelpa* Sing. in *Annlis mycol.* 41: 138. 1943; in *Lilloa* 22: 358. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 390. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena polyadelpa* (Lasch) Kühn.

Mycena stirps *Capillaris* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena capillaris* (Schum. ex Fr.) Kummer.

Mycena subsect. *Fuscae* A. H. Smith, N. Am. spec. *Mycena*: 109. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena capillaris*.

Mycena [subject?] *Foliicolae* Locq., *Petite fl. champ. Fr.* 1: 174. 1956 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena polyadelpa*.

Basidiomata parva vel minuta, ad caules vel ad folia dejecta. Pileus usque ad c. 7 mm latus, glaber vel rarius granulatus vel subpubescens, albus vel cinereofuscus vel non raro laetius coloratus. Lamellae haud numerosae, adscendentes vel horizontales vel subarcuatae, acie lateribus concolore. Stipes insititiosus vel basi filamentis radiantibus instructus. Basidia 2- vel 4-sporigera. Sporae amyloideae sed interdum haud manifeste. Cheilocystidia clavata vel obpyriformia, apice verrucosa. Hyphae pileipellis diverticulatae.

Basidiomata small to very small, growing on non-woody stems or fallen leaves. Pileus up to c. 7 mm wide, glabrous, more rarely granular to somewhat pubescent, white to greyish brown but not infrequently with brighter colours. Lamellae not numerous, ascending or horizontal or subarcuate, with the edge concolorous with the sides. Stipe insititious or with mycelial filaments radiating from the base. Basidia 2- or 4-spored. Spores amyloid but discolouring sometimes hardly noticeable. Cheilocystidia clavate to obpyriform, apically verrucose. Hyphae of the pileipellis diverticulate.

SPECIES.—*Mycena capillaris* (Schum. ex Fr.) Kummer (not *M. capillaris* P. Karst.), *M. juncicola* (Fr.) Gillet, *M. lohwaigii* Sing., *M. polyadelpa* (Lasch) Kühn., *M. quercus-ilicis* Kühn., *M. smithiana* Kühn., *M. tubarioides* (Maire) Kühn., *M. typhae* (Schweers) Kotlaba.

9. Sect. *Monticola* Sing. ex Maas G., *sect. nov.*

Mycena stirps *Monticola* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — *Mycena* stirps *Monticola* Sing. in *Lilloa* 22: 359. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 390. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena monticola* A. H. Smith.

Basidiomata statura media. Pileus glaber, ruber. Lamellae crebrae, adscendentes-adnatae, denique horizontales, acie lateribus concolore. Stipes primo roseus, basi sparsim fibrillosus. Basidia 4-sporigera. Sporae vix amyloideae. Cheilocystidia spinulis sat longis munita. Pleurocystidia absentia. Pileipellis subgelatinosa.

Basidiomata medium large. Pileus glabrous, red. Lamellae numerous, ascending-adnate, becoming horizontal, with the edge concolorous with the sides. Stipe at first bright pink, sparsely

fibrillose at the base. Basidia 4-spored. Spores very weakly amyloid (Singer, l.c.) or perhaps non-amyloid (Smith, l.c.). Cheilocystidia with fairly long excrescences. Pleurocystidia none. Pileipellis subgelatinous, but not separable.

SPECIES.—*Mycena monticola* A. H. Smith.

10. Sect. *Cinerellae* Sing. ex Maas G., sect. nov.

Mycena [subject?] *Omphaliariae* Kühn., Genre *Mycena*: 161, 354. 1938 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena cinerella* (P. Karst.) P. Karst.

Mycena stirps Misera A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena misera* sensu A. H. Smith.

Mycena stirps Cinerella A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — *Mycena stirps Cinerella* Sing. in Lilloa 22: 360. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 391. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena cinerella*.

?*Mycena stirps Subconcolor* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Monotype: *Mycena subconcolor* A. H. Smith.

?*Mycena stirps Clavicularis* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Monotype: *Mycena clavicularis* (Fr.) Gillet.

Basidiomata aliquantula, habitu plus minusve omphalioideo, austere colorata. Pileus siccus vel plus minusve lubricus. Lamellae horizontales, late adnatae vel arcuato-decurrentes. Stipes siccus vel viscosus. Basidia 2- vel 4-sporigera. Sporae amyloideae. Cheilocystidia clavata vel raro subcylindracea, apice surculis brevibus vel longioribus, saepius diverse formatis atque ramosis instructa. Pleurocystidia absentia vel rara.

Basidiomata fairly small, more or less omphalioid, with dull colours, greyish to subfuscous. Pileus dry to more or less lubricous. Lamellae horizontal, broadly adnate to arcuate-decurrent. Stipe dry to viscous. Basidia 2- or 4-spored. Spores amyloid. Cheilocystidia clavate, more rarely almost cylindrical, apically covered with shorter or longer, often variously shaped and branched excrescences. Pleurocystidia lacking or rare.

SPECIES.—*Mycena aleurioma* Favre, *M. cariciophila* Redhead, *M. cinerella* (P. Karst.) P. Karst., *M. cineroides* Hintikka, *M. clavicularis* (Fr.) Gillet, *M. concolor* (J. E. Lange) Kühn., *M. pseudopicta* (J. E. Lange) Kühn.

Singer (1951: 360, 1975: 391) considered *Mycena subconcolor* to be a member of this section, but the description by Smith (1947: 366) of a 'wide band ... of distinctly gelatinous hyphae, occurring beneath the hypoderm ...' seems to be an anomalous feature. *Mycena clavicularis* may be yet another species that had better be removed (Maas Geesteranus, 1980c: 415).

11. Sect. *Intermediae* Kühn. ex Maas G., sect. nov.

Mycena [subject?] *Intermediae* Kühn., Genre *Mycena*: 160, 375, 1938 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena latifolia* (Peck) A. H. Smith.

Mycena stirps Intermedia Sing. in Annlis mycol. 41: 140. 1943 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena latifolia*.

Mycena stirps Latifolia A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — *Mycena stirps Latifolia* Sing. in Lilloa 22: 360. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 391. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena latifolia*.

?*Mycena stirps Borealis* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — *Mycena stirps Borealis* Sing. in Lilloa 22: 360. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 391. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena borealis* A. H. Smith.

Basidiomata statura media vel magna, colore griseofusco vel multo obscuriore. Pileus siccus vel lubricus dicitur. Lamellae adscendentes vel subhorizontales, anguste vel late adnatae vel paulo uncinatae. Stipes plus minusve cartilagineus. Basidia 2- vel 4-sporigera. Sporae amyloideae. Cheilocystidia obovata, clavata, subcylindracea, fusiformia vel lageniformia, vulgo in parte ventricosa verrucis vel spinulis ornata. Pleurocystidia interdum numerosa.

Basidiomata medium large to large, greyish brown to very dark coloured. Pileus dry or said to be lubricous. Lamellae ascending to subhorizontal, narrowly to broadly adnate or decurrent with a tooth. Stipe more or less cartilaginous. Basidia 2- or 4-spored. Spores amyloid. Cheilocystidia obovate, clavate, subcylindrical, fusiform or lageniform, usually in the ventral part covered with warts or longer excrescences. Pleurocystidia present, sometimes numerous.

SPECIES—? *Mycena borealis* A. H. Smith, *M. font-queri* Maire, *M. latifolia* (Peck) A. H. Smith.

It has long been assumed that Saccardo (1887: 268) was the author who made the recombination *Mycena latifolia*, but this is an error. The binomial as published by Saccardo was preceded by an asterisk, which could be interpreted as the indication of a subspecies, as did e.g. Reid (1968: 14). Later (1911: 146), however, and referring to his earlier publication, Saccardo made it perfectly clear that *latifolia* was meant as a varietal epithet. As far as I am aware A. H. Smith (1935: 599) was (unwittingly) the first author to have published the recombination *Mycena latifolia*.

12. Sect. **P u d i c a e** Maas G., *sect. nov.*

Mycena stirps Quisquiliaris Sing. in Lilloa 22: 360. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 392. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena quisquiliaris* (Joss.) Kühn. (= *Mycena pudica* Hora).

Basidiomata parva, fragillima, alba. Pileus siccus, puberulus. Lamellae horizontales vel subarcuatae, late adnatae. Stipes puberulus. Basidia 4-sporigera. Sporae amyloideae. Cheilocystidia fusiformia vel lageniformia, laevia, interdum apice capitata. Pleurocystidia nulla. — Species typica: *Mycena pudica* Hora.

Basidiomata small, very fragile, white. Pileus dry, puberulous. Lamellae horizontal or somewhat arcuate, broadly adnate, Stipe puberulous. Basidia 4-spored. Spores amyloid. Cheilocystidia fusiform to lageniform, smooth, sometimes apically capitata. Pleurocystidia absent.

SPECIES.—*Mycena pudica* Hora.

Singer (l.c.) included several species more in his stirps *Quisquiliaris*, such as *Mycena brownii* A. H. Smith and *M. pseudoclavicularis* A. H. Smith. However, both these species differ too much from *M. pudica* to consider them even remotely related. *Mycena brownii* (Smith, 1947: 363) was described as having a well-pigmented pileus, moderately pliant flesh, a fairly long stipe with abruptly bulbous base, and often contorted or branched cheilocystidia. *Mycena pseudoclavicularis* was stated to have a pileus with viscid surface, pliant-cartilaginous flesh, a long, cartilaginous-pliant, and glabrous stipe which becomes lubricous when wet, and too short spores if compared with those of *M. pudica*.

13. Sect **Rubromarginatae** Sing. ex Maas G., *sect. nov.*

Mycena [subsect?] *Calodontes* Kühn., Genre *Mycena*: 162, 394. 1938 (illegitimate: later homonym); not *Mycena* [sect.] *Calodontes* (Fr. ex Berk.) Quél., 1872: 102. — Lectotype (here chosen): *Mycena capillaripes* Peck.

Mycena stirps Rubromarginata Sing. in *Annls mycol.* 41: 140. 1943; in *Lilloa* 22: 360. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 392. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena rubromarginata* (Fr. ex Fr.) Kummer.

Mycena subsect. *Ciliatae* A. H. Smith, N. Am. spec. *Mycena*: 40, 196, 206. 1947 (illegitimate: later homonym); not *Mycena* sect. *Ciliatae* J. E. Lange, 1914: 11, 13, 18. — Lectotype (here chosen): *Mycena capillaripes*.

Mycena stirps Capillaripes A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena capillaripes*.

Mycena stirps Elegantula A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena elegantula* Peck.

Mycena [subsect?] *Marginatae* Locq., Petite fl. champ. Fr. 1: 174. 1956 (illegitimate: later homonym); not *Mycena* [subsect.] *Marginatae* J. E. Lange, 1914: 13, 18. — Lectotype (here chosen): *Mycena rubromarginata*.

Basidiomata aliquantula vel statura media. Pileus vulgo hygrophanus, pigmentis diversissimis coloratus. Lamellae adscendentes, anguste vel late adnatae, plus minusve ventricosae, acie haud concava, fere semper intensius colorata. Stipes elongatus, tenuis, media parte plerumque glaber, basi tamen vulgo fibrillis crassis longisque munitus. Basidia (raro 2-) 4-sporigera. Spores amyloideae. Cheilocystidia numerosa, obpyriformia, clavata, subcylindracea, fusiformia vel lageniformia, laevia vel surculis diverse formati atque ramosis instructa. Pleurocystidia nulla vel cheilocystidiis similia. Pileipellis e hyphis vulgo diverticulatis.

Basidiomata fairly small to medium large. Pileus pruinose or glabrous, usually hygrophanous, variously coloured. Lamellae ascending, narrowly to broadly adnate, more or less ventricose, with the edge never concave and almost always more intensely coloured than the sides. Stipe elongate, slender, often glabrous in the middle part, but with the base usually covered in long and coarse fibrils. Basidia (rarely 2-) 4-spored. Spores amyloid. Cheilocystidia numerous to abundant, obpyriform, clavate, subcylindrical, fusiform or lageniform, smooth or with variously shaped and branched excrescences. Pleurocystidia lacking or similar to the cheilocystidia. Hyphae of the pileipellis usually diverticulate.

SPECIES.—*Mycena albidolilacea* Kühn. & Maire apud Kühn., *M. atromarginata* (Lasch) Kummer, *M. capillaripes* Peck, *M. cheboyganensis* A. H. Smith, *M. citrinomarginata* Gillet, *M. elegantula* Peck, *M. luteoalcalina* sensu Kühn., *M. olivaceobrunnea* A. H. Smith, *M. olivaceomarginata* (Masseé apud Cooke) Masseé (and *M. neoavenacea* Hongo which may be only a form), *M. purpureofusca* (Peck) Sacc., *M. renati* Quél., *M. roseomarginata* Hongo (if distinct from the next), *M. rubromarginata* (Fr. ex Fr.) Kummer, *M. seynii* Quél., *M. viridimarginata* P. Karst.

Singer (l.c.) also included *Mycena luteoalcalina* Sing. but, according to Moser (1978: 18), this is the same as *M. renati*.

As regards *M. thymicola* Vel., also taken to be a member of the present section, I have insufficient experience to be certain whether or not it is a distinct species.

14. Sect. **FRAGILIPEDES** (Fr.) Quél.

Agaricus [sect.] *Fragilipedes* Fr., *Epicr. Syst. mycol.*: 108. 1838; Cooke, *Handb. Br. Fungi* 1: 68. 1871 (formally accepted as section). — *Mycena* [sect.] *Fragilipedes* (Fr.) Quél., *Champ. Jura Vosges*: 105. 1872: — *Mycena* [ser?] *Fragilipedes* (Fr.) Kühn., Genre *Mycena*: 457. 1938. — *Mycena* groupe *Fragilipedes* (Fr.)

Konr. & Maubl., Agar.: 319. 1948 (inadmissible term denoting rank). — Lectotype (here chosen): *Agaricus alcalinus* Fr. ex Fr.

Mycena sect. *Ciliatae* J. E. Lange in Dansk bot. Ark. 1 (5): 11, 13, 18. 1914. — *Mycena* [rank?] *Ciliatae* (J. E. Lange) Kühn., Genre *Mycena*: 383. 1938. — *Mycena* subsect. *Ciliatae* (J. E. Lange) Sing. in Annlis mycol. 41: 140. 1943; in Lilloa 22: 360. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 392. 1975. — Lectotype (Sing., 1951: 360): *Mycena alcalina*.

Mycena [subsect.] *Concolores* J. E. Lange in Dansk bot. Ark. 1(5): 13, 20. 1914. — Lectotype (here chosen): *Mycena alcalina*.

Mycena sect. *Alcalinae* Konr. & Maubl., Ic. sel. Fung. 6: 270. 1934. — Lectotype (Donk, unpublished): *Mycena alcalina*.

Mycena sect. *Polygrammae* Konr. & Maubl., Ic. sel. Fung. 6: 271. 1934. — Lectotype (Donk, unpublished): *Mycena polygramma* (Bull. ex Fr.) S. F. Gray.

Mycena [subsect?] *Fuscescentes* Kühn., Genre *Mycena*: 162, 453. 1938 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena alcalina*.

Mycena [ser?] *Rigidipedes* Kühn., Genre *Mycena*: 494. 1938 (illegitimate: later homonym); not *Mycena* sect. *Rigidipedes* (Fr.) Quél., 1872: 104. — Lectotype (here chosen): *Mycena filopes* sensu Kühn. (= *Mycena vitilis*).

Mycena stirps *Alcalina* Sing. in Annlis mycol. 41: 141. 1943; in Lilloa 22: 361. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 392. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena alcalina*.

Mycena stirps *Polygramma* Sing. in Annlis mycol. 41: 143. 1943 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena polygramma*.

Mycena stirps *Subcana* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Monotype: *Mycena subcana* A. H. Smith.

?*Mycena* stirps *Subsupina* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena subsupina* A. H. Smith.

Mycena stirps *Leptocephala* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena leptocephala* (Pers. ex Fr.) Gillet.

Mycena stirps *Praelonga* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena praelonga* (Peck) Sacc.

Mycena stirps *Vitilis* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena vitilis* (Fr.) Quél.

Mycena stirps *Polygramma* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Monotype: *Mycena polygramma*.

Mycena stirps *Algeriensis* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena algeriensis* Maire apud Kühn.

Mycena stirps *Laevigata* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena laevigata* (Lasch) Gillet.

?*Mycena* subsect. *Cinereae* A. H. Smith, N. Am. spec. *Mycena*: 126. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena subsupina* A. H. Smith.

Basidiomata medium large to large. Pileus glabrous to fibrillose, often hygrophanous, grey-brown in various shades, not infrequently very dark to almost black at the centre, more rarely pale to whitish. Lamellae ascending, narrowly to broadly adnate, sometimes decurrent with a tooth, grey to grey-brown or whitish, sometimes becoming stained with reddish brown spots, edge always convex, concolorous to whitish. Stipe elongate, fissile or fragile in some species, firm to tenacious and somewhat cartilaginous in others, glabrous for the greater part, but as a rule pubescent or with coarse fibrils at the base, largely concolorous with the pileus. Basidia 4-spored. Spores amyloid. Cheilocystidia numerous, often large, clavate, subcylindrical, fusiform or lageniform, frequently apically attenuated to form a narrow neck, smooth to somewhat branched or with several prominent excrescences. Pleurocystidia numerous to absent. Hyphae of the pileipellis smooth to more or less densely diverticulate.

SPECIES.—*Mycena aetites* (Fr.) Quél., *M. alcalina* (Fr. ex Fr.) Kummer, *M. algeriensis* Maire apud Kühn., *M. alnetorum* Favre, *M. atrocyanea* (Batsch ex Fr.) Gillet, *M. avellaneibrunea*

Thiers, *M. excisa* (Lasch) Kummer, *M. fragillima* A. H. Smith, *M. fusco-ocula* A. H. Smith, *M. griseiconica* Kauffm., *M. jacobi* Maire, *M. kauffmaniana* A. H. Smith, *M. laevigata* (Lasch) Gillet, *M. leptcephala* (Pers. ex Fr.) Gillet, *M. niveipes* Murrill, *M. polygramma* (Bull. ex Fr.) S. F. Gray, *M. overholtsii* Smith & Solheim, *M. praelonga* (Peck) Sacc., *M. radicata* Thiers, *M. strobilicola* Favre & Kühn. apud Kühn., *M. subcana* A. H. Smith, ?*M. subcucullata* A. H. Smith, *M. subfumosa* A. H. Smith, *M. subfusca* A. H. Smith, ?*M. subsupina* A. H. Smith, *M. vitilis* (Fr.) Quél., *M. zephrus* (Fr. ex Fr.) Kummer.

The section as it is conceived here may be judged to be somewhat too inclusive. Species like *M. subcucullata* and *M. subsupina*, both of which are members of Smith's stirps *Subsupina*, were described to possess 'rigid' to 'rather tough and cartilaginous' stipes, which is contrary to the description of the section by Fries (1838: 108): 'Stipes *fragilis*'. On the other hand, it should be remembered that Kühner apparently was in no doubt about the correct position of *M. algeriensis* (1938: 490, 'stipe ... fibro-cartilagineux élastique') and *M. excisa* (1938: 493, 'stipe ... tenace, cartilagineux') in a group which also comprises such species as *M. abramsii* (= *M. praecox*) (1938: 482, 'stipe ... non tenace, mais au contraire tendre et cassant') and *M. aetites* (1938: 475, 'stipe ... fragile'), in other words, species that he considered true *Fragilipedes*. Yet, it may be necessary to look into this matter at some time in the near future.

15. Sect. LACTIPEDES (Fr.) Quél.

Agaricus [sect.] *Lactipedes* Fr., Epicr. Syst. mycol.: 114. 1838; Cooke, Handb. Br. Fungi I: 72. 1871 (formally accepted as section). — *Mycena* [sect.] *Lactipedes* (Fr.) Quél., Champ. Jura Vosges: 107. 1872; Sing. in *Lilloa* 22: 361. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 393. 1975 (formally accepted as section). — *Mycena* subsect. *Lactipedes* (Fr.) Métrod in Prodr. fl. mycol. Madagasc. 3: 20, 21, 57. 1949. — Lectotype (Sing., 1951: 361): *Agaricus galopus* Pers. ex Fr.

Galactopus Earle in Bull. N. Y. bot. Gdn 5: 426. 1909. — Lectotype (Donk, unpublished): *Mycena haematopus* (Pers. ex Fr.) Kummer.

Mycena [rank?] *Genuinae* Kühn., Genre *Mycena*: 160, 212. 1938 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena galopus*.

Mycena [rank?] *Granulatae* Kühn., Genre *Mycena*: 160, 213. 1938 (not val. publ.: no Latin descr.). — *Mycena* subsect. *Granulatae* (Kühn.) Sing. in Annl. mycol. 41: 137. 1943 (not val. publ.: no Latin descr.). — Lectotype (Sing., l.c.): *Mycena crocata* (Schrad. ex Fr.) Kummer.

Mycena [rank?] *Ciliatae* Kühn., Genre *Mycena*: 161, 216. 1938. — *Mycena* subsect. *Ciliatae* (Kühn.) Sing. in Annl. mycol. 41: 137. 1943 (illegitimate: later homonym); not *Mycena* sect. *Ciliatae* J. E. Lange, 1914: 11, 13, 18. — Lectotype (here chosen): *Mycena sanguinolenta*.

Mycena [rank?] *Calodontes* Kühn., Genre *Mycena*: 216. 1938 (nomen nudum). — Lectotype (here chosen): *Mycena sanguinolenta*.

Mycena [rank?] *Concolores* Kühn., Genre *Mycena*: 223. 1938 (nomen nudum). — Lectotype (here chosen): *Mycena galopus*.

Mycena stirps *Galopus* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena galopus*.

Mycena stirps *Haematopus* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena haematopus*.

Basidiomata medium large to large. Pileus dry (somewhat viscid in one case), more or less hygrophanous, variously coloured. Lamellae ascending, adnate, often decurrent with a tooth, edge concolorous with the sides or paler, in one case more intensely coloured. Stipe dry, glabrous to more or less pubescent, exuding a watery, milky or coloured juice when cut or broken, Basidia 2- or 4-spored. Spores amyloid. Cheilocystidia numerous, clavate, subcylindrical, fusiform or

lageniform, usually smooth but not infrequently also with irregularly placed and/or shaped excrescences. Pleurocystidia absent to fairly numerous. Hyphae of the pileipellis more or less densely diverticulate.

SPECIES.—*Mycena abramsii* (Murrill) Murrill (syn. *M. praecox* Vel.), *M. atkinsoniana* A. H. Smith, *M. cayugaensis* A. H. Smith, *M. crocata* (Schrad. ex Fr.) Kummer, *M. erubescens* Höhn., *M. galopus* (Pers. ex Fr.) Kummer, *M. haematopus* (Pers. ex Fr.) Kummer, *M. sanguinolenta* (Alb. & Schw. ex Fr.) Kummer, *M. subsanguinolenta* A. H. Smith.

In my opinion *M. abramsii* is better placed in section *Lactipedes* instead of section *Fragilipedes* as considered by Kühner (1938: 482).

On account of its more or less viscid pileus and, more especially, its rather small and differently shaped cheilocystidia, *Mycena crocata* stands apart from the other members of the present section.

Smith (1947: 39) introduced a stirps *Anomala* (a nomen nudum, to be sure) which he considered intermediate between his stirpes *Galopus* and *Haematopus*. It would seem, however, that its lectotype (here chosen)—*Mycena anomala* Beardslee—is better placed in the genus *Hydropus* (Kühn.) Sing.

16. Sect. HYGROCYBOIDEAE (Fr.) Sing.

Agaricus [sect.] *Hygrocyboideae* Fr., Syst. mycol. 1: 155. 1821. — *Mycena* sect. *Hygrocyboideae* (Fr.) Sing. in Beih. Sydowia 7: 49. 1973 ('*Hygrocyboideae*'). — Lectotype (Singer, 1975: 394): *Mycena epipterygia* (Scop. ex Fr.) S. F. Gray.

Agaricus [sect.] *Glutinipedes* Fr., Epicr. Syst. mycol.: 116. 1838; Cooke, Handb. Br. Fungi 1: 73. 1871 (formally accepted as section). — *Mycena* [sect.] *Glutinipedes* (Fr.) Quél., Champ. Jura Vosges: 108. 1872; Singer in Lilloa 22: 362. ('1949') 1951 (formally accepted as section). — *Mycena* [subsect?] *Glutinipedes* (Fr.) Kühn., Genre *Mycena*: 161, 346. 1938. — Lectotype (Sing., 1951: 362): *Mycena epipterygia*.

Collopus Earle in Bull. N. Y. bot. Gdn 5: 426. 1909. — Monotype: *Mycena epipterygia*.

Mycena sect. *Gummosae* J. E. Lange in Dansk bot. Ark. 1(5): 11, 16, 36. 1914. — *Mycena* [subsect.] *Gummosae* (J. E. Lange) Oort in Meded. Ned. mycol. Ver. 16-17: 200, 242. 1928. — Lectotype (Donk, unpublished): *Mycena epipterygia*.

Mycena [sect.] *Glutinosae* Kühn. in Bull. bimens. Soc. linn. Lyon 10: 125. 1931. — Lectotype (Donk, unpublished): *Mycena epipterygia*.

Mycena stirps *Epipterygia* Sing. in Anns mycol. 41: 139. 1943 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena epipterygia*.

Mycena subgen. *Glutinipes* A. H. Smith, N. Am. spec. *Mycena*: 41, 43, 401. 1947 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena epipterygia*.

?*Mycena* stirps *Insignis* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Monotype: *Mycena insignis* A. H. Smith.

Mycena stirps *Epipterygia* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena epipterygia*.

Mycena stirps *Griseoviridis* A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Monotype: *Mycena griseoviridis* A. H. Smith.

Mycena sect. *Viscosae* A. H. Smith, N. Am. spec. *Mycena*: 41, 401, 418. 1947 (not val. publ.: no Latin descr.). — Lectotype (Donk, unpublished): *Mycena viscosa* Maire.

?*Mycena* stirps *Tenax* A. H. Smith, N. Am. spec. *Mycena*: 42. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena tenax* A. H. Smith.

Mycena subsect. *Gummosae* Sing. in Lilloa 22: 362 ('1949') 1951; Agar. mod. taxon., 3rd ed.: 394. 1975 (illegitimate: later homonym); not *Mycena* sect. *Gummosae* J. E. Lange, 1914: 11, 16, 36. — Type species (Sing., 1951: 362): *Mycena viscosa* Maire.

Mycena [subsect?] *Viscosae* Locq., Petite fl. champ. Fr. 1: 175. 1956 (not val. publ.: no Latin descr.). — Type species (Locq., l.c.): *Mycena epipterygia*.

Basidiomata medium large. Pileus viscid, never orange. Lamellae ascending, decurrent with a tooth, with gelatinizing edge which is separable as an elastic-tough thread. Stipe viscid, usually with some yellowish colour, sometimes reddening with age. Basidia 2- or 4-spored. Spores amyloid. Cheilocystidia variously shaped but generally clavate, with shorter or longer and variously shaped excrescences. Pleurocystidia none. Hyphae of the pileipellis diverticulate, embedded in a gelatinous, separable layer.

SPECIES.—*Mycena epipterygia* (Scop. ex Fr.) S. F. Gray with its numerous varieties (see Maas Geesteranus, 1980a), *M. simia* Kühn. apud Kühn. & Lamoure, *M. subinamyloidea* Sing.

Some of the stirpes mentioned by Smith have been included in the present section with some doubt, and it may well be asked whether stirpes *Tenax* would not deserve to be removed to form a separate group. Kühner (1938: 383) apparently was equally uncertain where to place *Mycena tenax* A. H. Smith.

Mycena lilacifolia (Peck) A. H. Smith (1947: 414) might be considered related to the members of the present section on account of the yellow colours of pileus and stipe, but it deviates in that the edge of the lamellae does not gelatinize, in the lack of cheilocystidia, and in the non-amyloid spores. Smith placed the species in his section *Caespitosae*, where it is equally anomalous.

17. Sect. FULIGINELLAE (A. H. Smith ex Sing.) Maas G.

Mycena stirps *Vulgaris* Sing. in Annl. mycol. 41: 139. 1943 (inadmissible term denoting rank). Lectotype (here chosen): *Mycena vulgaris* (Pers. ex Fr.) Kummer.

Mycena sect. *Fuliginellae* A. H. Smith, N. Am. spec. *Mycena*: 42, 401, 429. 1947 (not val. publ.: no Latin descr.). — *Mycena* subsect. *Fuliginellae* (A. H. Smith) Sing. in Lilloa 22: 362. ('1949') 1951 (not val. publ.: no Latin descr.). — *Mycena* subsect. *Fuliginellae* A. H. Smith ex Sing. in Sydowia 15: 65. 1962. — *Mycena* sect. *Fuliginellae* (A. H. Smith ex Sing.) Maas G. in Proc. K. Ned. Akad. Wet. (C) 83: 406. 1980. — Lectotype (Sing., 1951: 362): *Mycena vulgaris*.

Mycena stirps *Vulgaris* A. H. Smith, N. Am. spec. *Mycena*: 42. 1947 (nomen nudum). — Lectotype (here chosen): *M. vulgaris*.

Mycena groupe *Vulgares* Kühn. & Romagn., Fl. analyt. champ. sup.: 109. 1953 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena vulgaris*.

Basidiomata medium large. Pileus viscid. Lamellae hardly ascending, arcuate to more or less horizontal, broadly adnate, edge gelatinizing and separable as an elastic-tough thread. Stipe viscid to glutinous, pallid to fuscous, not reddening with age. Basidia 4-spored. Spores amyloid. Cheilocystidia apically profusely branched. Pleurocystidia absent. Hyphae of the pileipellis diverticulate, embedded in a gelatinous, separable layer.

SPECIES.—*Mycena vulgaris* (Pers. ex Fr.) Kummer.

18. Sect. CAESPITOSAE (A. H. Smith ex Sing.) Maas G.

Mycena sect. *Caespitosae* A. H. Smith, N. Am. spec. *Mycena*: 41, 401, 406. 1947 (not val. publ.: no Latin descr.). — *Mycena* subsect. *Caespitosae* (A. H. Smith) Sing. in Lilloa 22: 362. ('1949') 1951 (not val. publ.: no Latin descr.). — *Mycena* subsect. *Caespitosae* A. H. Smith ex Sing. in Sydowia 15: 65. 1962. — *Mycena* sect. *Caespitosae* (A. H. Smith ex Sing.) Maas G. in Proc. K. Ned. Akad. Wet. (C) 83: 407. 1980. — Lectotype (Sing., 1951: 362): *Mycena texensis* A. H. Smith.

Mycena stirps leaiana A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena leaiana* (Berk.) Sacc.

Mycena stirps Subeipterygia A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Monotype: *Mycena subeipterygia* Murrill.

Basidiomata fairly large to large, lignicolous and usually caespitose. Pileus glabrous, viscid, entirely white or with the centre grey-brown, orange in one species. Lamellae adnate to somewhat decurrent (with the subhymenium in at least some species known to be gelatinous). Stipe viscid to glutinous. Basidia apparently 2- or 4-spored. Spores pip-shaped, at least in some species known to be amyloid. Cheilocystidia clavate, fusiform or lageniform, smooth or apically somewhat lobed or with a few, irregularly shaped, blunt excrescences. Pleurocystidia scattered or absent. Hyphae of the pileipellis embedded in a gelatinous, separable layer.

SPECIES.—*Mycena austinii* (Peck) Kühn., *M. euspeirea* (Berk. & Curt.) Sacc., *M. glutinosa* Beardslee, *M. hondurensis* A. H. Smith, *M. leaiana* (Berk.) Sacc., *M. subeipterygia* Murrill, *M. texensis* A. H. Smith.

19. Sect. CALAMOPHILAE Maas G.

Mycena sect. *Calamophilae* Maas G. in Proc. K. Ned. Akad. Wet. (C) 83: 409. 1980. — Monotype: *Mycena belliae* (Johnst. apud Berk.) P. D. Orton.

Basidiomata medium large, arising from a mycelial patch. Pileus soon becoming umbilicate, puberulous to tomentose, then glabrescent and becoming viscid. Lamellae arcuate-decurrent, somewhat elastic. Stipe densely puberulous, then glabrescent and becoming somewhat viscid, reddening at the base with age. Basidia 4-spored. Spores elongate to almost cylindrical, amyloid. Cheilocystidia fusiform to clavate, smooth or forked to somewhat branched. Pleurocystidia absent. Cortical layer of the pileus an ixotrichodermium, forming a viscid, tough, separable pellicle. Hyphae of the stipe continuous with those of the pileus. Subhymenium not gelatinized.

SPECIES.—*Mycena belliae* (Johnst. apud Berk.) P. D. Orton.

The present section and sect. *Caespitosae* clearly have much in common. Unfortunately, several members of the latter are incompletely known, which renders it difficult to decide whether these sections had not better be subordinated as subsections within a larger entity.

20. Sect. CALODONTES (Fr. ex Berk.) Quéf.

Agaricus subtrib. *Calodontes* Fr., Syst. mycol. 1: 111. 1821 (inadmissible term denoting rank). — *Agaricus* [sect.] *Calodontes* Fr. ex Berk. in J. E. Smith, Engl. Fl. 5 (2): 43. 1836; Fr., Epicr. Syst. mycol.: 99. 1838; Cooke, Handb. Br. Fungi 1: 63. 1871 (formally accepted as section). — *Mycena* [sect.] *Calodontes* (Fr. ex Berk.) Quéf., Champ. Jura Vosges: 102. 1872. — *Mycena* subsect. *Calodontes* (Fr. ex Berk.) Métrod, Prodr. fl. mycol. Madagasc. 3: 20, 32. 1949. — Lectotype (Donk, unpublished, but see also Berk., l.c.): *Agaricus pelianthinus* Fr.

Basidiomata medium large to large, collybioid. Pileus moist but not viscid (said to be lubricous in one species), hygrophanous. Lamellae more or less horizontal, sinuate-adnate, broadly adnate or decurrent with a tooth. Stipe fragile. Basidia 4-spored. Spores amyloid or non-amyloid. Cheilocystidia clavate, subcylindrical, more or less fusiform or lageniform with broadly rounded apex. Pleurocystidia, if present, similar. Hyphae of the pileipellis smooth.

20.1. Subsect MARGINATAE J. E. Lange

Prunulus S. F. Gray, Nat. Arrang. Br. Pl. 1: 63. 1821. — Lectotype (Earle, 1909: 393, 427): *Agaricus denticulatus* [= *Mycena pelianthina* (Fr.) Quél.].

Mycena sect. *Ciliatae* [subsect.] *Marginatae* J. E. Lange in Dansk bot. Ark. 1 (5): 13, 18. 1914. — Lectotype (Donk, unpublished): *Mycena pelianthina*.

Mycena stirps *Pelianthina* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — *Mycena* stirps *Pelianthina* Sing. in Lilloa 22: 363. ('1949') 1951 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena pelianthina*.

Mycena [subsect.] *Pelianthinae* Locq., Petite fl. champ. Fr. 1: 174. 1956 (not val. publ.: no Latin descr.). — Lectotype (Donk, unpublished): *Mycena pelianthina*.

Basidiomata with features as in sect. *Calodontes*, but lamellae with the edge more intensely coloured than the sides. Spores amyloid.

SPECIES.—*Mycena pelianthina* (Fr.) Quél., *M. rutilantiformis* (Murrill) Murrill.

20.2. Subsect. *Purae* (Konr. & Maubl.) Maas G., *comb. nov.*

Mycena sect *Purae* Konr. & Maubl., Ic. sel. Fung. 6: 269. 1934. — Lectotype (Sing., 1951: 363): *Mycena pura* (Pers. ex Fr.) Kummer.

Mycenula P. A. Karst. in Medd. Soc. Fauna Fl. fenn. 16: 89. 1889. — Type species (Donk, 1962: 193): *Mycena pura*.

Mycena [subsect?] *Janthinae* Kühn., Genre *Mycena*: 162, 445. 1938 (not val. publ.: no Latin descr.). — *Mycena* subsect. *Janthinae* (Kühn.) A. H. Smith, N. Am. spec. *Mycena*: 40, 149, 185. 1947 ('*Janthinae*', not val. publ.: no Latin descr.). — Lectotype (Donk, unpublished): *Mycena pura*.

Mycena stirps *Janthina* Sing. in Annls mycol. 41: 141. 1943 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena pura*.

Mycena stirps *Pura* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — *Mycena* stirps *Pura* Sing. in Lilloa 22: 363. ('1949') 1951; Agar. mod. taxon., 3rd ed.: 395. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena pura*.

Basidiomata with features as in sect. *Calodontes*, but lamellae with the edge concolorous with the sides or paler. Spores amyloid.

SPECIES.—*Mycena kuehneriana* A. H. Smith, *M. pura* (Pers. ex Fr.) Kummer, *M. subaquosa* A. H. Smith.

20.3. Subsect. *Violacellae* Sing. ex Maas G., *subsect. nov.*

Mycena stirps *Violacella* Sing., Agar. mod. taxon., 3rd ed.: 395. 1975 (inadmissible term denoting rank). — Lectotype (here chosen): *Mycena violacella* (Speg.) Sing.

Basidiomata with features as in sect. *Calodontes*, but spores non-amyloid.

SPECIES.—*Mycena pearsoniana* Dennis ex Sing.

21. Sect. ADONIDEAE (Fr.) Quél.

Agaricus [sect.] *Adonidei* Fr., Epicr. Syst. mycol.: 101. 1838 ('*Adonideae*'); Cooke, Handb. Br. Fungi 1: 65. 1871 (formally accepted as section). — *Mycena* [sect.] *Adonideae* (Fr.) Quél., Champ. Jura Vosges: 103. 1872; Sing., Agar. mod. taxon., 3rd ed.: 395. 1975 (formally accepted as section). — *Mycena* [subsect?] *Adonideae*

(Fr.) Kühn., Genre *Mycena*: 163, 546. 1938 ('*Adonidae*'). — *Hemimycena* sect. *Adonideae* (Fr.) Sing. in *Annls mycol.* 41: 120, 123. 1943 ('*Adonidae*'). — *Marasmiellus* sect. *Adonidei* (Fr.) Sing. in *Lilloa* 22: 301. ('1949') 1951 ('*Adonidī*'). — Lectotype (Sing., 1951: 301): *Agaricus adonis* Bull. ex Fr.

Mycena sect. *Flavoalbae* Konr. & Maubl., Ic. sel. Fung. 6: 276. 1934. — Lectotype (Donk, unpublished): *Mycena flavoalba* (Fr.) Quél.

Mycena [sect?] *Genuinae* Kühn., Genre *Mycena*: 163, 538. 1938. — Lectotype (here chosen): *Mycena flavoalba*.

Mycena subsect. *Typicae* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena adonis* (Bull. ex Fr.) S. F. Gray.

Mycena stirps *Luteopallens* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Monotype: *Mycena luteopallens* (Peck) Sacc.

Mycena stirps *Flavoalba* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena flavoalba*.

Mycena stirps *Adonis* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena adonis*.

Mycena stirps *Amabilissima* A. H. Smith, N. Am. spec. *Mycena*: 40. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena amabilissima* (Peck) Sacc.

Mycena subsect. *Euadonidae* A. H. Smith, N. Am. spec. *Mycena*: 149. 163. 1947 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena adonis*.

Mycena [subsect.] *Amabilissimae* Locq., Petite fl. champ. Fr. 1: 174. 1956 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena flavoalba*.

Basidiomata fairly small to medium large. Pileus glabrous to pruinose, more or less moist, in one species somewhat lubricous, hygrophanous, mostly very brightly coloured, usually very much paling with age. Lamellae ascending at first, becoming more or less horizontal, adnate to somewhat uncinat, usually brightly coloured. Stipe glabrous to puberulous, at the base as a rule covered with long fibrils, usually brightly coloured, hyphae continuous with those of the pileus. Basidia 2- or 4-spored. Spores weakly amyloid or non-amyloid. Cheilocystidia fusiform to lageniform, smooth. Pleurocystidia similar. Hyphae of the pileipellis as far as known diverticulate.

SPECIES.—*Mycena adonis* (Bull. ex Fr.) S. F. Gray, *M. amabilissima* (Peck) Sacc., *M. argillascens* Mitchel & Smith, *M. aurantiidisca* Murrill (if distinct from *M. adonis*), *M. flavoalba* (Fr.) Quél., ?*M. fusipes* Murrill, *M. leptophylla* (Peck) Sacc., *M. luteopallens* (Peck) Sacc., *M. roseipallens* Murrill, ?*M. roseocandida* (Peck) Sacc.

Among the stirpes here taken to be synonymous with sect. *Adonideae*, Smith (1947: 40) also mentioned stirps *Flavifolia*, of which *Mycena flavifolia* Peck is the monotype. However, this species with its clavate and densely diverticulate cheilocystidia is definitely not a member of the present section. It may be judged to have some relation with sect. *Polyadelphia*.

Stirps *Carolinensis* A. H. Smith (1947: 40), typified by *Mycena carolinensis* Smith & Hesler, is another dubious group, about which I can say no more than that it does not belong to the *Adonideae*.

I am reluctant to follow Kühner who placed *Mycena roseipallens* (1938: 565) and *M. leptophylla* (1938: 581) in the section *Hiemales*.

M. Lange (1955: 41) described a *Mycena citrinovirens* which he compared with some members of the section *Adonideae*. A serious barrier, however, is the fact that the cheilocystidia are shown to have fairly long excrescences, much in the way of those found in section *Hygrocyboideae*. But Lange stated that the pileus has a 'pellicle ... hardly subgelatinous in KOH', while he also made no mention of the tough, thread-like edge that can be lifted from the lamellae. Clearly, *M. citrinovirens* needs re-examination.

22. Sect. *ACICULAE* Kühn. ex Sing.

Mycena [subsect?] *Aciculae* Kühn., Genre *Mycena*: 163, 602. 1938 (not val. publ.: no Latin descr.). — *Hemimycena* sect. *Aciculae* (Kühn.) Sing. in *Annls mycol.* 41: 120, 121, 123. 1943 (not val. publ.: no Latin descr.). — *Marasmiellus* sect. *Aciculae* (Kühn.) Sing. in *Lilloa* 22: 301. ('1949') 1951 (not val. publ.: no Latin descr.). — *Mycena* sect. *Aciculae* Kühn. ex Sing. in *Sydowia* 15: 65. 1962. — Lectotype (Sing., 1951: 301): *Mycena acicula* (Schaeff. ex Fr.) Kummer.

Mycena stirps *Acicula* A. H. Smith, N. Am. spec. *Mycena*: 39. 1947 (nomen nudum). — Lectotype (here chosen): *Mycena acicula*.

Mycena subsect. *Rubrae* Métrod in *Prodr. fl. mycol. Madagasc.* 3: 20, 21, 88. 1949. — Lectotype (Donk, unpublished): *Mycena acicula*.

Basidiomata fairly small. Pileus pruinose, becoming glabrous, brightly coloured. Lamellae ascending, adnate to more or less decurrent with a tooth, brightly coloured. Stipe firm, puberulous, with long fibrils at the base, brightly coloured, hyphae abruptly distinct from those of the pileus. Basidia 2- or 4-spored. Spores narrowly pip-shaped, non-amyloid. Cheilocystidia clavate, subcylindric to fusiform, smooth, more rarely apically forked. Pleurocystidia similar. Hyphae of the pileipellis densely branched or diverticulate.

SPECIES.—*Mycena acicula* (Schaeff. ex Fr.) Kummer, *M. oregonensis* A. H. Smith.

23. Sect. *HIEMALES* Konr. & Maubl.

Mycena [sect.] *Hiemales* Konr. & Maubl., Ic. sel. *Fung.* 6: 274. 1934; Sing., *Agar. mod. taxon.*, 3rd ed.: 396. 1975 (formally accepted as section). — *Marasmiellus* sect. *Hiemales* (Konr. & Maubl.) Sing. in *Lilloa* 22: 302. ('1949') 1951. — Lectotype (Sing., 1951: 302): *Mycena hiemalis* (Osborn. apud Retz. ex Fr.) Quél.

Mycena [subsect?] *Hiemales* Kühn., Genre *Mycena*: 164, 564. 1938 (not val. publ.: no Latin descr.). — *Hemimycena* sect. *Hiemales* (Kühn.) Sing. in *Annls mycol.* 41: 120, 121, 123. 1943 (not val. publ.: no Latin descr.). — Lectotype (Donk, unpublished): *Mycena hiemalis*.

Basidiomata fairly small to medium large, usually corticolous or lignicolous. Pileus glabrous to somewhat pruinose, never brightly coloured. Lamellae narrowly to broadly adnate. Stipe glabrous to puberulous, white to whitish or horn-coloured, apically bright yellow in one variety. Basidia 2- or 4-spored. Spores as far as known non-amyloid. Cheilocystidia cylindrical, fusiform or somewhat lageniform, smooth or apically forked. Pleurocystidia absent or similar. Hyphae of the pileipellis smooth or diverticulate.

23.1. Subsect. *Hiemales* Maas G., *subsect. nov.*

Mycena [sect?] *Epiphloae* Kühn., Genre *Mycena*: 163, 564. 1938 (not val. publ.: no Latin descr.). — Lectotype (here chosen): *Mycena hiemalis*.

Mycena [subsect?] *Typicae* Kühn., Genre *Mycena*: 164, 564. 1938 (not val. publ.: no Latin descr.). — *Marasmiellus* subsect. *Typici* (Kühn.) Sing. in *Lilloa* 22: 302. ('1949') 1951 (not val. publ.: no Latin descr.). — *Mycena* subsect. *Typicae* (Kühn.) Sing., *Agar. mod. taxon.*, 3rd ed.: 396. 1975 (not val. publ.: no Latin descr.). — Lectotype (Sing., 1951: 302): *Mycena hiemalis*.

Basidiomata characteribus sicut in sect. *Hiemales* sed lamellae adscendentes, acie convexa. — Species typica: *Mycena hiemalis*.

Basidiomata with features as in sect. *Hiemales*, but lamellae ascending and with the edge convex.

SPECIES.—*Mycena grisellina* Favre, *M. hiemalis* (Osb. apud Retz. ex Fr.) Qué!., *M. olida* Bres., *M. radiciper* Favre.

23.2. Subsect. *Omphaliariae* Kühn. ex Maas G., *subsect. nov.*

Mycena [subject?] *Omphaliariae* Kühn., Genre *Mycena*: 164. 582. 1938 (not val. publ.: no Latin descr.). — *Marasmiellus* subsect. *Omphaliarii* (Kühn.) Sing. in *Lilloa* 22: 302. ('1949') 1951 (not val. publ.: no Latin descr.). — *Mycena* subsect. *Omphaliariae* (Kühn.) Sing., Agar. mod. taxon., 3rd ed.: 396. 1975 (not val. publ.: no Latin descr.). — Lectotype (Sing., 1951: 302): *Mycena speirea* (Fr. ex Fr.) Gillet.

Mycena stirps Speirea A. H. Smith, N. Am. spec. *Mycena*: 41. 1947 (nomen nudum). — Monotype: *Mycena speirea*.

Basidiomata characteribus sicut in sect. *Hiemales* sed lamellae subhorizontales vel arcuatae, acie concava.

Basidiomata with features as in sect. *Hiemales*, but lamellae more or less horizontal to arcuate, with the edge concave.

SPECIES.—*Mycena alba* (Bres. apud Sacc.) Kühn., *M. atropapillata* Kühn. & Maire apud Kühn., *M. phaeophylla* Kühn., *M. speirea* (Fr. ex Fr.) Gillet.

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