

ARTICLE XI.—*A Check-List of the Coccidæ.* BY T. D. A.
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Anyone who will take the trouble to peruse the "Zoological Record" will see that the present is a time of unusual activity among coccidologists. In the last volume to hand, that for 1893, nearly four pages are occupied by the abstract of the literature on this family, as against three pages for the rest of the Homoptera! Before many years have passed, the *Catalogue général des Hémiptères* of M. Severin will have reached the Coccidæ, and we may then expect to be presented with an elaborate bibliographical index to the group. In the meanwhile the works of Signoret, Comstock, Maskell, and the forthcoming list of American Homoptera by Ashmead, will greatly assist us in reviewing the subject; but I have thought that a check-list, complete to date, would be a noteworthy convenience at the present time.

In preparing this list I have consulted almost all the recent works, but for many of the older ones have been obliged to rely on the information given by Signoret. A list of the one hundred and twenty-four persons who have named genera, species, or varieties of Coccidæ is appended, with the dates on or between which their writings pertinent in this connection were published. For the older works, the dates may not in all cases be perfectly correct, as those given by Signoret and Hagen do not always agree. The numbers in parentheses after the authors' names indicate the number of valid species described by each.

Specific names may be placed in three categories according to the manner of publication:

(1.) *Nomina nuda*. Names published wholly without description. These are entirely ignored in the present list.

(2.) *Nomina seminuda*. Names published with descriptive matter insufficient for the determination of the species. These are included, but numbered separately from the rest. The length of a description is not a proper test in this connection, as a very short account may be ample to identify a well-marked species, while some quite long descriptions are inadequate.

(3.) *Nomina valida*. Names published with descriptions sufficient for the recognition of the species. These are numbered consecutively.

S. means synonym, v., variety or mutation.

Many names proposed by Green, W. G. Johnson, Olliff, and the present writer have been included, though unpublished at the time of writing; but in every case the description is understood to have been prepared, and to be awaiting very early publication. For the reference of *Ortonia natalensis* to *Icerya* I am indebted to Mr. L. O. Howard, who has examined specimens. The use of the name *vitis* for *Margarodes vitium* seems to be demanded by strict priority, though it is only adopted with extreme reluctance. *Tetrura* is referred to *Oudablis*, as it seems to be practically identical with it. *Asterolecanium oncidii* is restored, as I have received from Trinidad (Hart) a different species, which I believe to be the real *A. aureum*. In *Lecanium* I have separated the section *Eulecanium*; but among the tropical forms I have not even distinguished *Bernardia* or *Saissetia* (*L. oleæ*, &c.), because the very large number of new species lately discovered necessitates a thorough revision of the groups, with more prolonged study than is possible for me at the present. I am not familiar with *Aspidiotus sabalis*,

Comst., but have no option but to propose a generic name (*Comstockiella*) for it, as Comstock's excellent description and figures show that it is not an *Aspidiotus*. Some of its characters might almost be called Psylliform.

The Japanese species are placed with the palæarctic, but it must be admitted that many of them have oriental or Indian affinities.

The species added since the list was made up are numbered consecutively from the end of the list.

LIST OF AUTHORITIES.

- | | |
|--------------------------------------|-----------------------------------|
| Anderson, J., 1787-95. (1.) | Crawford, F. S., (see Maskell). |
| Ashmead, W. H., 1879-91. (1.) | Curtis, John, 1838-43. (1.) |
| Atkinson, E. T., 1886-89. (1.) | Dalman, J. W., 1826. |
| Baerensprung, F. von, 1849. (4.) | De Geer, Carl, 1752-60. (1.) |
| Beccari, 1877. (1.) | Del Guercio, G., 1894. (2.) |
| Bernard. (1.) | Douglas, J. W., 1881-93. (23.) |
| Bergen, C. A. von, 1739-48. | Dufour, L., 1833-64. (1.) |
| Boisduval, J. A., 1867-68. (10.) | Dugès, A., 1888. |
| Bosc d'Antic, L. A. G., 1784. | Fabricius, J. C., 1775-1803. (3.) |
| Bouché, P. F., 1833-51. (17.) | Fitch, Asa, 1855-59. (9.) |
| Brandt, J. F., 1834-36. (1.) | Fonscolombe, Boyer de, 1834. (4.) |
| Brème, F. de. (1.) | Forbes, S. A., 1884-94. (2.) |
| Bremi-Wolf, J. J., 1847. | Forster, A., 1851. |
| Buckton, G. B., 1894. | Frauenfeld, G. R. von, 1868. (1.) |
| Burmeister, H. C. C., 1839-49. (1.) | Froggatt, W. W., 1893-94. (22.) |
| Butler, A. G., 1876. | Germar, E. F., 1856. (3.) |
| Chavannes, M. A., 1848. (2.) | Gennadius, P., 1881-83. (2.) |
| Cockerell, T. D. A., 1892-95. (104.) | Geoffroy, E. F., 1767. (2.) |
| Cockerell and Bennett, 1895. (1.) | Giard, A., 1893-95. (1.) |
| Cockerell and Townsend, 1894. | Gmelin, J. F., 1788-93. (3.) |
| Colvéé, P., 1880. (5.) | Goethe, R., 1884. (1.) |
| Comstock, J. H., 1881-83. (32.) | Goureau, Col., 1867. (1.) |
| Cook, A. J., 1878-79. (1.) | Gray, J. E., 1828. (1.) |
| Coquillett, D. W., 1889-90. (5.) | Green, E. E., 1886-95. (44.) |
| Costa, O. G., 1850-57. (3.) | Guérin-Méneville, F. E., 1841-69. |
| Craw, Alex., 1893-94. (2.) | (1.) |

- Guilding, L., 1833. (1.)
 Hardwicke, Gen. T., 1822. (1.)
 Hardy, J., 1860.
 Hartig, Theo., 1839. (1.)
 Haworth, A. H., 1812. (1.)
 Icery, E., 1864. (1.)
 Illiger, J. C. W., (see Burm., 1835).
 Inzenga (see Del Guercio).
 Johnson, W. G., ined. (4.)
 Kaltenbach, J. H., 1846-75.
 Karsch (see Mik, 1882).
 Kawaii, H., 1867.
 Kennicott, R., 1854.
 Kerner, J. S., 1778. (1.)
 Kerr, James, 1781. (1.)
 Kirby, W. F., 1891.
 Klug, J. C. F., 1830. (1.)
 Kollar, V., 1848-51. (1.)
 Künckel d' Herculaïs, J., 1877-78. (1.)
 Lamarck, de, 1801. (1.)
 Leach, W. E., 1814-18.
 Ledermueller, M. F., 1761-76.
 Lichtenstein, J., 1873-86. (3.)
 Linné, C. von, 1735-72. (17.)
 Llave, de la, 1832. (1.)
 Loew, F., 1862-84. (4.)
 Lucas, H., 1853-55. (2.)
 Maskell, W. M., 1879-95. (192.)
 Mayer.
 Menge, A., 1856. (1.)
 Modeer, Adolph, 1778-92. (3.)
 Montrouzier, P., 1864. (1.)
 Morgan, A. C. F., 1888-93. (5.)
 Morgan and Cockerell, 1892-93. (1.)
 Newport, Geo., 1852.
 Newstead, R., 1891-95. (20.)
 Niedielski, (1.)
 Nietner, John, 1861. (1.)
 Olliff, A. S., 1891. (3.)
 Packard, A. S., 1869-70. (2.)
 Pallas, P. S., 1767-1801.
 Panzer, G. W. F., 1793-1806.
 Penzig, O., 1887. (1.)
 Philippi, F., 1884. (1.)
 Planchon, Prof., 1864. (3.)
 Putnam, J. D., 1880. (1.)
 Rathvon, Dr., 1854. (1.)
 Ratzeburg, J. T. C., 1843-44.
 Réaumur, R. A. F. de, 1734-42.
 Reed, E. C., 1895.
 Riley, C. V., 1873-81. (1.)
 Riley and Howard, 1890. (3.)
 Rossi, P., 1790-94.
 Rübsaamen, E. H., 1894. (5.)
 Sasaki, C., 1894. (1.)
 Schrader, H. L., 1863. (7.)
 Schrank, F. von. P., 1798-1804. (7.)
 Scudder, S. H., 1890. (1.)
 Shaw, Geo., 1806. (1.)
 Signoret, Dr. V., 1867-86. (91.)
 Snellen, van Vollenhoven, S. C., 1852. (1.)
 Sulc, Karel, 1894-95. (2.)
 Targioni-Tozzetti, A., 1866-94. (22.)
 Tepper, J. G. O., 1893. (5.)
 Thiebaut, de Berneaud. 1824.
 Thomas, C., (see Forbes, 1894).
 Townsend, C. H. T., 1892. (1.)
 Tryon, Hy., 1889. (1.)
 Vallot, Dr. J. N., 1830-39. (2.)
 Walker, Francis, 1852-58: (3.)
 Walsh, B. D., 1860-68. (1.)
 Westwood, J. O., 1839-71. (8.)
 White, A., 1846.
 White, B., 1880.
 Zetterstedt, J. W., 1828-40.

COCCIDÆ.

Monophlebinæ.

Monophlebus Leach.

Oriental, ♂ only known.

1. *dubius, Fabr.*
- s. *fabricii, Westw.*
2. *atripennis, Klug.*
3. *leachi, Westw.*
4. *saundersi, Westw.*

Ceylon, ♀ known.

5. *zeylanicus, Green.*

Patria incerta.

6. *burmeisteri, Westw.*

Africa, ♂ only known.

7. *raddoni, Westw.*

Australia.

8. *illigeri, Westw.*
9. *crawfordi, Mask.*
- v. *levis, Mask.*
- v. *pilosior, Mask.*
10. *fuscus, Mask.*

Guerinia, Sign. ex Targ.

11. *serratulæ, Fabr.*

Drosicha, Walk.

12. *contrahens, Walk. MS., Sign.*

Llaveia, Sign.

13. *axinus, Llave.*
- v. *dorsalis, Dugès.*

Tessarobelus, Montr.

14. *guerinii, Montr.*

Callipappus, Guér.

15. *westwoodii, Guér.*

Walkeriana, Sign.

16. *floriger, Walk.*
17. *compacta, Green.*

18. *euphorbiæ, Green.*

19. *poleii, Green.*

20. *senex, Green.*

Cælostoma, Mask.

New Zealand.

21. *assimile, Mask.*
22. *wairoense, Mask.*
23. *zealandicum, Mask.*
24. *compressum, Mask.*
25. *pilosum, Mask.*

Australia.

26. *australe, Mask.*
27. *immane, Mask.*
28. *rubiginosum, Mask.*

Palæococcus, Ckll.

(Leachia, Sign., preocc.)

Palæarctic.

29. *fuscipennis, Burm.*
30. *hellenicus, Genn.*

New Zealand.

31. *zealandicus, Mask.*

Neotropical.

32. *braziliensis, Walk.*

Fossil, ♂ only known.

33. *simplex, Scudd.*
34. *irregularis, Germ.*
35. *pinnatus, Germ.*
36. *trivenosus, Germ.*

Ortonia Sign.

Neotropical.

37. *bouvari, Sign.*
38. *uhleri, Sign.*

Icerya Sign.

Australia.

39. *purchasi, Mask.*
40. *koebelei, Mask.*

Ethiopian.

41. natalensis, Dougl.

Oriental.

42. seychellarum, Westw.
s. sacchari, Guér.
43. ægyptiacum, Dougl.
44. tangalla, Green.
45. crocea, Green.
46. pilosa, Green.

Neotropical.

47. montserratensis, R. & H.
48. palmeri, R. & H.
s. g. *Crypticerya*, Ckll.
49. rosæ, R. & H.
50. australis, Mask.
s. g. *Proticerya*, Ckll.
51. rileyi, Ckll.

Porphyrophorinæ.

Porphyrophora, Brandt.

Palearctic.

52. gallica, Sign.
53. hameli, Brandt.
s. armeniaca, Burm.
54. perrisi, Sign.
55. polonica, L.
56. radicum-graminis, Baer.
? fragariæ, Gm.
? poterii, Auctt.
? potentillæ, Mayer.
? alchimillæ, Bergen.

Margarodes, Guild.

Neotropical.

57. formicarium, Guild.
s. g. *Sphæraspis*, Giard.
58. vitis, F. Phil.
s. vitium, Giard.
s. trilobitum, Reed.

Coccinæ.

Coccus, L.

59. cacti, L.
? v. bassi, Targ.
v. ceylonicus, Green.

60. tomentosus, Lam.
61. confusus, Ckll.

Capulinia, Sign.

62. sallei, Sign.

Gymnococcus, Dougl.

63. agavium, Dougl.

Conchaspis, Ckll.

(*Pseudinglisia*, Newst.)

64. angræci, Ckll.
s. rodriguezianæ, Newst.
v. hibisci, Ckll.

Eriococcus, Targ.

Palearctic.

65. aceris, Sign.
66. buxi, Sign.
67. ericæ, Sign.
68. insignis, Newst.
69. thymi, Schr.
70. rorismarinus, Fonsc.

American.

71. azaleæ, Comst.
72. quercus, Comst.
73. neglectus, Ckll.
74. coccineus, Ckll.
v. lutescens, Ckll.
75. dubius, Ckll.

New Zealand.

76. araucariæ, Mask.
77. multispinus, Mask.
78. hoheriæ, Mask.
79. pallidus, Mask.
80. raithbyi, Mask.
81. phyllocladi, Mask.
82. fagicorticis, Mask.
83. danthoniæ, Mask.

Australia.

- 76a. araucariæ v. minor, Mask.
66a. buxi v. australis, Mask.
77a. multispinus v. lævigatus,
Mask
84. paradoxus, Mask.
85. tepperi, Mask.
86. confusus, Mask.

87. eucalypti, *Crawf. MS., Mask. Cerococcus*, Comst.
 88. leptospermi, *Mask.* 111. quercus, *Comst.*
 89. turgipes, *Mask.* 112. ehrhorni, *Ckll.*
 90. coriaceus, *Mask.*
 91. conspersus, *Mask.*
Rhizococcus, Sign.
 Palæarctic.
 92. gnidii, *Sign.*
 New Zealand.
 93. celmisiae, *Mask.*
 94. fossor, *Mask.*
 95. totaræ, *Mask.*
 96. pulchellus, *Mask.*
 97. maculatus, *Mask.*
 98. intermedius, *Mask.*
 Australia.
 99. grandis, *Mask.*
 v. spinosior, Mask.
 100. casuarinæ, *Mask.*
 101. pustulatus, *Mask.*
Gossyparia, Sign.
 Palæarctic.
 102. mannifera, *Hardw.*
 s. manniparus, Sign.
 103. ulmi, *Geoff.*
 s. alni, Mod.
 s. spurius, Mod.
 ? s. farinosus, DeG.
 s. lanigera, Gmel.
 New Zealand.
 104. cavellii, *Mask.*
 Australia.
 105. casuarinæ, *Mask.*
 106. confluens, *Mask.*
Nidularia, Targ.
 107. pulvinata, *Planch.*
Antonina, Sign.
 108. purpurea, *Sign.*
 109. brachypodii, *Licht.*
Xylococcus, Lw.
 110. filiferus, *Lw.*
Solenophora, *Mask.*
 113. fagi, *Mask.*
 114. corokiae, *Mask.*
Rhizæcus, Künck.
 115. falcifer, *Künck.*
Puto, Sign.
 116. antennata, *Sign.*
Cryptococcus, Dougl.
 117. fagi, *Baer.*
Ripersia, Sign.
 Palæarctic.
 118. corynepthori, *Sign.*
 119. pulveraria, *Newst.*
 120. tomlinii, *Newst.*
 121. fraxini, *Newst.*
 122. subterranea, *Newst.*
 774. terrestris, *Newst.*
 Nearctic.
 123. maritima, *Ckll.*
 Australia.
 124. leptospermi, *Mask.*
 New Zealand.
 125. formicicola, *Mask.*
 126. rumicis, *Mask.*
 127. fagi, *Mask.*
Phenacoccus, Ckll.
 (Pseudococcus, *Sign.*, ex err.)
 Palæarctic.
 128. aceris, *Sign.*
 129. æsculi, *Sign.*
 130. brunnitarsis, *Sign.*
 131. hederæ, *Sign.*
 132. mespili, *Geoff.*
 ? s. pruni, Burm.
 133. platani, *Sign.*
 134. quercus, *Dougl.*

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| 135. ulicis, <i>Dougl.</i> | 158. vitis, <i>Nied.</i> | |
| 136. ulmi, <i>Dougl.</i> | 159. walkeri, <i>Newst.</i> | |
| 137. socius, <i>Newst.</i> | 775. hibernicus, <i>Newst.</i> | |
| 138. pergandei, <i>Ckll.</i> | 776. radicum, <i>Newst.*</i> | |
| <i>Nearctic.</i> | | |
| 139. yuccæ, <i>Coq.</i> | 160. adonidum, <i>L.</i> | |
| s. mexicanus, <i>Ckll.</i> | s. longispinus, <i>Targ.</i> | |
| 140. helianthi, <i>Ckll.</i> | ? s. coffeæ, <i>Lederm.</i> | |
| <i>Neotropical.</i> | | |
| 139a. yuccæ v. barberi, <i>Ckll.</i> | s. longifilis, <i>Comst.</i> | |
| <i>Oriental.</i> | | |
| 141. mangiferæ, <i>Green.</i> | 161. bromeliæ, <i>Bouché.</i> | |
| <i>Australia.</i> | | |
| 142. casuarinæ, <i>Mask.</i> | 162. cyperi, <i>Sign.</i> | |
| 143. nivalis, <i>Mask.</i> | 163. hoyæ, <i>Sign.</i> | |
| <i>New Zealand.</i> | | |
| 144. asteliæ, <i>Mask.</i> | 164. litiacearum, <i>Bouché.</i> | |
| <i>Oudablis</i> , <i>Sign.</i> | 165. mamillariæ, <i>Bouché.</i> | |
| (<i>Tetrura</i> , <i>Licht.</i>) | 166. perrisii, <i>Sign.</i> | |
| 145. quadricaudata, <i>Sign.</i> | 167. pteridis, <i>Sign.</i> | |
| 146. rubi, <i>Licht.</i> | 168. tuliparum, <i>Bouché.</i> | |
| 147. lauri, <i>Boisd.</i> | 169. theobromæ, <i>Dougl.</i> | |
| 148. piceæ, <i>Lw.</i> | 170. zamia, <i>Lucas.</i> | |
| <i>Dactylopius</i> , <i>Costa.</i> | <i>American.</i> | |
| <i>Palearctic.</i> | | |
| 149. alaterni, <i>Sign.</i> | 171. crawii, <i>Coq.</i> | |
| 150. caricis, <i>Genn.</i> | 172. ryani, <i>Coq.</i> | |
| 151. ceratonis, <i>Sign.</i> | 173. ephedræ, <i>Coq.</i> | |
| 152. citri, <i>Boisd.</i> | 174. trifolii, <i>Forbes.</i> | |
| s. destructor, <i>Comst.</i> | 175. sorghiellus, <i>Forbes.</i> | |
| ? s. farinosus, <i>DeG.</i> | 176. aphyllonis, <i>Ckll.</i> | |
| s. phyllococcus, <i>Ashm.</i> | 1. ? poæ, <i>Thos.</i> | |
| s. brevispinus, <i>Targ. p.p.</i> | 177. virgatus, <i>Ckll.</i> | |
| 153. ficus, <i>Sign.</i> | v. farinosus, <i>Ckll.</i> | |
| 154. indicus, <i>Sign.</i> | v. humilis, <i>Ckll.</i> | |
| 155. lavandulæ, <i>Sign.</i> | 178. segregatus, <i>Ckll.</i> | |
| 156. robinis, <i>Sign.</i> | 179. simplex, <i>Ckll.</i> | |
| 157. viburni, <i>Sign.</i> | 180. brevipes, <i>Ckll.</i> | |
| | 181. nipæ, <i>Mask.</i> | |
| | 182. filamentosus, <i>Ckll.</i> | |
| | 183. solani, <i>Ckll.</i> | |
| | v. atriplicis, <i>Ckll.</i> | |
| | 184. townsendi, <i>Ckll.</i> | |
| | v. steelii, <i>Ckll. and Twms.</i> | |
| | 185. sacchari, <i>Ckll.</i> | |

* I believe that the form described by Newstead as the second stage of *D. radicum* is a distinct species, and a true *Ripersia*. It cannot well be doubted that it is, in fact, the long-lost *Coccus halophilus*, Hardy, which must be called *Ripersia halophila*.

186. *olivaceus*, *Ckll.*

Sandwich Is.

187. *vastator*, *Mask.*

Marquesas Is.

188. *pandani*, *Ckll.*

Oriental.

189. *viridis*, *Newst.*

190. *ceriferus*, *Newst.*

191. *cocotis*, *Mask.*

192. *talini*, *Green.*

193. *scrobicularum*, *Green.*

Ethiopian.

194. *graminis*, *Mask.*

Australian.

195. *affinis*, *Ma-k.*

196. *lobulatus*, *Mask.*

197. *herbicola*, *Mask.*

198. *ericicola*, *Mask.*

199. *acaciæ*, *Mask.*

200. *albizzia*, *Mask.*

201. *hibbertia*, *Mask.*

202. *globosus*, *Mask.*

203. *eucalypti*, *Mask.*

New Zealand.

204. *alpinus*, *Mask.*

205. *calceolariæ*, *Mask.*

206. *glaucus*, *Mask.*

207. *poæ*, *Mask.*

208. *arecæ*, *Mask.*

209. *aurilanatus*, *Mask.*

210. *obtectus*, *Mask.*

211. *iceryoides*, *Mask.*

Subfam. incert.

Ochyrocoris, *Menge.*

(Fossil in amber.)

212. *electrina*, *Menge.*

Polyclona, *Menge.*

(Fossil in amber, no species
named; probably not a
coccid.)

Aspisarcus, *Newpt.*

2. *eucalypti*, *Newpt.*

Genus incertus.

Palæarctic.

3. *aterrimus*, *Costa.*

4. *asari*, *Schr.*

5. *cratægi*, *Kalt.*

6. *crispus*, *Fonsc.*

7. *cryptus*, *Kawall.*

8. *elioides*, *Costa.*

9. *fagi*, *Walk.*

10. *frauenfeldi*, *Karsch.*

11. *fraxini*, *Chav.*

12. *halophilus*, *Hardy.*

13. *hordeolum*, *Dalm.*

14. *hypericonis*, *Gmel. ex Pall.*

15. *hystrix*, *Baer.*

16. *laricis*, *Bouché.*

17. *myrtilli*, *Kalt.*

18. *pilosellæ*, *L.*

19. *purpuratus*, *Dalm.*

20. *strobi*, *Baer.*

21. *uva*, *Mod.*

22. *uvæ-ursi*, *L.*

s. arbuti, *Fabr.*

23. *xylostei*, *Schr.*

Ethiopian.

24. *capensis*, *L.*

25. *diosmatis*, *Mod.*

26. *ceratiformis*, *Butler.*

Oriental.

27. *laniger*, *W. F. Kirb.*

28. *chlæoon*, *And.*

29. *diacopeis*, *And.*

30. *erion*, *And.*

31. *koieos*, *And.*

32. *microogenes*, *And.*

33. *oogenes*, *And.*

34. *sinensis*, *Walk.*

35. *trichodes*, *And.*

Australia.

36. *blanchardii*, *Targ.*

America.

37. *caudatus*, *Walk. ♂.*

38. *edwardsii*, *Ashm. ♂.*

39. *tuberculatus*, *Bouché.*

Fossil in Amber.

40. avitus, Menge ♂.
41. termitinus, Menge ♂.

Hemicoccinæ.

Kermes, Auctt.

Palearctic.

213. ballotæ, Sign.
214. bauginii, Planch.
215. ilicis, Linn.
 s. vermilio, Planch.
216. fuscus, Sign.
217. gibbosus, Sign.
218. pallidus, Sign. ex Réaum.
219. reniformis, Sign. ex Réaum.
220. variegatus Gm.

Ethiopian.

221. quercus, Newst.

Nearctic.

222. galliformis, Riley.
223. gillettei, Ckll.

Australian.

224. acaciæ, Mask.

Ortheziinæ.

Orthezia, Bosc.

Palearctic.

225. cataphracta, Shaw.
 s. chiton, Zett.
 s. signoreti, B. White.
226. urticæ, Linn.
 s. characias, Bosc.
 s. dubius, Panz.
 ? *s. dispar*, Kalt.
 ? *s. glechomane*, Fab.
 ? *s. delavauxi*, Thib.
 ? *s. uva*, Mod.
227. floccosa, DeG.
 s. normani, Dougl.

228. mænariensis, Dougl.

Nearctic.

42. americana, Walk.
229. occidentalis, Dougl.
230. annæ, Ckll.

231. nigrocincta, Ckll.
232. sonorensis, Ckll.

Neotropical.

233. insignis, Dougl.
 s. nacreæ, Buckt.
234. prælonga, Dougl.

Ortheziola, Sulc.

235. vej dovskyi, Sulc.

Asterolecaniinae.

Lecaniodiaspis, Targ.

236. sardoa, Targ.
 s. g. Prosopophora, Dougl.
Nearctic.

237. yuccæ, Riley MS., Tons.
 v. rufescens, Ckll.
238. prosopidis, Mask.
777. celtidis, Ckll.

Neotropical.

239. dendrobii, Dougl.

Japanese.

240. quercus, Ckll.

Australian.

241. eucalypti, Mask.
242. acaciæ, Mask.

Asterolecanium, Targ.

Series i.

Palearctic.

243. quercicola, Bouché.
244. ilicicola, Targ.
245. hederæ, Licht.
 s. massalongianum, Targ.
 s. valloti, Licht.
246. arabidis, Licht. MS., Sign.
247. fimbriatum, Fonsc.

Tropical.

248. aureum, Boisd.
249. oncidii, Ckll.
 s. aureum, Targ. ex err.
 ? *s. of epidendri*, Bouché.
250. pustulans, Ckll.

Australia.

251. *stypeliæ*, Mask.
252. *ventruosum*, Mask.

New Zealand.

253. *epacridis*, Mask.

Series ii.

254. *bryoides*, Mask.

*Series iii.**Tropical.*

255. *bambusæ*, Boisd.
256. *miliaris*, Boisd.
v. *longum*, Green.
257. *delicatum*, Green.
258. *solenopheroïdes*, Green.
259. *palmae*, Ckll.
260. *urichi*, Ckll.
s. g. *Pollinia*, Targ.
261. *pollini*, Costa.
s. *costæ*, Targ.
262. *thesii*, Dougl.
263. *grande*, Newst.

Brachyscelinæ.*Tachardia*, Sign.

(Carteria, Sign., preocc.)

American.

264. *mexicana*, Comst.
265. *gemmifera*, Ckll.
266. *pustulata*, Ckll.
267. *fulgens*, Ckll.
268. *cornuta*, Ckll.
269. *larreæ*, Comst.

Oriental.

270. *lacca*, Kerr.
s. *ficus*, Fabr.

Australian.

271. *melaleucæ*, Mask.
272. *acaciæ*, Mask.
273. *decorella*, Mask.

Gascardia, Targ.

274. *madagascariensis*, Targ.

Apiomorpha, Rübs.

(Brachyscelis, Schrad., preocc.)

275. *munita*, Schrad.
v. *foliosa*, Tepp.
v. *reducta*, Tepp.
276. *pileata*, Schrad.
? v. *ovicoloides*, Tepp.
277. *pharetrata*, Schrad.
278. *ovicola*, Schrad.
v. *glabra*, Tepp.
279. *duplex*, Schrad.
280. *tricornis*, Frog.
281. *minor*, Frog.
282. *variabilis*, Frog.
283. *conica*, Frog.
v. *subconica*, Tepp.
284. *pomiformis*, Frog.
285. *baeuerleni*, Frog.
286. *dipsaciformis*, Frog.
287. *sessilis*, Frog.
288. *rosiformis*, Frog.
289. *fletcheri*, Olliff.
290. *nux*, Olliff.
291. *umbellata*, Frog.
292. *thorntoni*, Frog.
293. *regularis*, Tepp.
294. *urnalis*, Tepp.
295. *calycina*, Tepp.
? v. *neumanni*, Tepp.
296. *rugosa*, Frog.
297. *strombyosa*, Tepp.
298. *cornifex*, Rübs.
299. *similis*, Rübs.
300. *karschi*, Rübs.
301. *beyeria*, Tepp.
? alii generis.

Ascelis, Schrad.

302. *præmollis*, Schrad.
303. *schraderi*, Frog.
304. *attenuata*, Frog.

Opisthoscelis, Schrad.

305. *subrotunda*, Schrad.
v. *gracilis*, Schrad.
306. *verrucula*, Frog.
307. *maskelli*, Frog.
308. *spinosa*, Frog.
309. *pisiformis*, Frog.

310. mammularis, *Frog.*
 311. fibularis, *Frog.*
 312. maculata, *Frog.*
 313. serrata, *Frog.*
 314. globosa, *Rübs.*
- Frenchia*, Mask.
 316. casuarinæ, *Mask.*
 317. semiocculta, *Mask.*
- Idiococcinæ.**
- Sphærococcus*, Mask.
Sandwich Is.
 318. bambusæ, *Mask.*
Australia.
 319. acaciæ, *Mask.*
 320. casuarinæ, *Mask.*
 321. elevans, *Mask.*
 322. froggatti, *Mask.*
 323. inflatipes, *Mask.*
 324. leptospermi, *Mask.*
 325. melaleucæ, *Mask.*
 326. pirogallis, *Mask.*
 327. stypheliæ, *Mask.*
 s. g. *Pseudolecanium*, Ckll.
Japan.
 328. tokionis, *Ckll.*
- Cylindrococcus*, Mask.
Australia.
 329. casuarinæ, *Mask.*
 330. spiniferus, *Mask.*
 331. amplior, *Mask.*
- Crocidocysta*, Rübs.
 315. froggatti, *Rübs.*
- Lecaniinæ.**
- Signoretia*, Targ.
 332. luzulæ, *L. Duf.*
 v. australis, *Mask.*
- Eriochiton*, Mask.
 333. hispidus, *Mask.*
 334. spinosus, *Mask.*
 335. cajani, *Mask.*
- Filippia*, Targ.
 336. oleæ, *Costa.*
 s. follicularis, *Targ.*
- Eriopeltis*, Sign.
 337. festucæ, *Fonsc.*
 338. lichtensteinii, *Sign.*
 43. brachypodii, *Giard.*
- Lichtensia*, Sign.
Palæarctic.
 339. viburni, *Sign.*
 778. eatoni, *Newst.*
Nearctic.
 340. lycii, *Ckll.*
Neotropical.
 341. lutea, *Ckll.*
- Pulvinaria*, Targ.
Palæarctic.
 342. artemisiæ, *Sign.*
 343. betulæ, *Linn.*
 v. alni, *Dougl.*
 344. camellicola, *Sign.*
 345. ericæ, *Lw.*
 346. fraxini, *Sign.*
 347. linearis, *Targ.*
 348. mesembryanthemi, *Vall.*
 349. oxyacanthæ, *Linn.*
 350. persicæ, *Newst.*
 351. populi, *Sign.*
 352. ribesiæ, *Sign.*
 353. tremulæ, *Sign.*
 354. vitis, *Linn.*
 355. carpini, *Linn.*
 356. euonymi, *Gour.*
 44. fagi, *Hardy.*
 357. lanata, *Gm.*
 s. marginata, *Targ.*
 358. aurantii, *Ckll.*
Nearctic.
 359. innumerabilis, *Rathv.*
 s. acericola, *W. & R.*
 360. macluræ, *Kenn. MS., Fitch.*
 361. bigeloviæ, *Ckll.*

330 *Illinois State Laboratory of Natural History.*

Neotropical.

362. *urbicola*, *Ckll.*
363. *dendrophthoræ*, *Ckll.*
364. *cupaniæ*, *Ckll.*
365. *simulans*, *Ckll.*
779. *broadwayi*, *Ckll.*

Oriental.

366. *obscura*, *Newst.*
367. *gasteralpha*, *Icery.*
s. *iceryi*, *Guér.*
368. *psidii*, *Mask.*
369. *tessellata*, *Green.*
370. *tomentosa*, *Green.*

Australian.

371. *flavicans*, *Mask.*
372. *maskelli*, *Olkiff.*
s. *atriplicis*, *Mask.*
v. *spinosior*, *Mask.*
373. *dodoneæ*, *Mask.*
374. *tecta*, *Mask.*

Sandwich Is.

375. *mammeæ*, *Mask.*

Patria incerta.

45. *cestri*, *Bouché.*
376. *brassiæ*, *Ckll.*
s. g. *Takahashia*, *Ckll.*
377. *japonica*, *Ckll.*
s. g. *Protopulvinaria*, *Ckll.*
378. *pyriformis*, *Ckll.*

Pseudopulvinaria, *Atk.*

379. *sikkimensis*, *Atk.*

Ceronema, *Mask.*

380. *banksiæ*, *Mask.*

Ctenochiton, *Mask.*

New Zealand.

381. *depressus*, *Mask.*
v. *minor*, *Mask.*
382. *elæocarpi*, *Mask.*
383. *elongatus*, *Mask.*
384. *flavus*, *Mask.*
385. *fuscus*, *Mask.*
386. *hymenantheræ*, *Mask.*
387. *perforatus*, *Mask.*

388. *piperis*, *Mask.*

389. *viridis*, *Mask.*

390. *dacrydii*, *Mask.*

Australia.

391. *eucalypti*, *Mask.*

392. *rhizophoræ*, *Mask.*

Lecanochiton, *Mask.*

393. *metrosideri*, *Mask.*

394. *minor*, *Mask.*

Inglisia, *Mask.*

New Zealand.

395. *leptospermi*, *Mask.*

396. *ornata*, *Mask.*

397. *patella*, *Mask.*

398. *inconspicua*, *Mask.*

399. *fagi*, *Mask.*

Australia.

400. *foraminifer*, *Mask.*

Neotropical.

401. *vitrea*, *Ckll.*

Fairmairia, *Sign.*

402. *bipartita*, *Sign.*

Ceroplastodes, *Ckll.*

403. *niveus*, *Ckll.*

404. *acaciæ*, *Ckll.*

405. *daleæ*, *Ckll.*

Vinsonia, *Sign.*

406. *stellifera*, *Westw.*

- s. *pulchella*, *Sign.*

Ceroplastes, *Gray.*

Palæarctic.

407. *rusci*, *Linn.*

- s. *hydatis*, *Costa.*

- s. *testudiniformis*, *Targ.*

- s. *artemisiæ*, *Rossi.*

408. *mimosæ*, *Sign.*

Nearctic.

409. *irregularis*, *Ckll.*

Neotropical.

410. *cassiæ*, *Chav.*

411. *fairmairii*, *Targ.*

412. *iheringi*, *Ckll.*
 413. *psidii*, *Crav.*
 414. *cistudiformis*, *Twins. MS., Ckll.*
 46. *chilensis*, *Gray.*
 47. *jamaicensis*, *A. White.*
 415. *cirripediformis*, *Comst.*
 416. *plumbaginis*, *Ckll.*
 417. *depressus*, *Ckll.*
 418. *denudatus*, *Ckll.*
 419. *floridensis*, *Comst.*
 420. *janeirensis*, *Gray.*
 421. *albolineatus*, *Ckll.*
 422. *utilis*, *Ckll.*
 780. *euphorbiæ*, *Ckll.*
 781. *mexicanus*, *Ckll.*
 Oriental.
 423. *ceriferus*, *Anders.*
 s. dugesii, *Licht. MS., Twins.*
 424. *vinsoni*, *Sign.*
 425. *actiniformis*, *Green.*
 Ethiopian.
 48. *myricæ*, *Linn.*
 Australian.
 426. *rubens*, *Mask.*
 49. *australasiæ*, *Walk.*
Ericerus, *Guér.*
 427. *pé-la*, *Westw.*
Physokermes, *Targ.*
 428. *abietis*, *Mod.*
 s. hemicryphus, *Dalm.*
 s. racemosum, *Ratz.*
 429. *coloradensis*, *Ckll.*
 430. *insignicola*, *Craw, emend.*
Lecanium, *Illig.*
 Palæarctic.
 431. *angustatum*, *Sign.*
 432. *maculatum*, *Sign.*
 433. *elongatum*, *Sign.*
 434. *genistæ*, *Sign.*
 435. *clypeatum*, *Dougl.*
 436. *emericæ*, *Planch.*
 Patria incerta.
 437. *acuminatum*, *Sign.*
 438. *alienum*, *Dougl.*
 439. *anthurii*, *Boisd.*
 440. *assimile*, *Newst.*
 v. amaryllidis, *Ckll.*
 441. *beaumontiæ*, *Dougl.*
 442. *palmae*, *Haw.*
 s. cycadis, *Boisd.*
 443. *depressum*, *Targ.*
 ? v. of nigrum, *Nietn.*
 444. *fillicum*, *Boisd.*
 ? v. of hemisphæricum,
 Targ.
 445. *hemisphæricum*, *Targ.*
 v. hibernaculonem, *Boisd.*
 ? v. coffeæ, *Walk.*
 446. *hesperidum*, *Linn.*
 v. lauri, *Boisd.*
 447. *minimum*, *Newst.*
 448. *oleæ*, *Bern.*
 v. testudo, *Curt.*
 ? v. citri, *Inzenga.*
 449. *tessellatum*, *Sign.*
 450. *perforatum*, *Newst.*
 451. *pseudhesperidum*, *Ckll.*
 50. *vaccinii-macrocarpum*, *Goe-*
 the.
 452. *wistariæ*, *Sign.*
 Nearctic.
 51. *platycerii*, *Pack.*
 453. *phoradendri*, *Ckll.*
 Neotropical.
 454. *terminaliæ*, *Ckll.*
 455. *longulum*, *Dougl.*
 v. chirimoliæ, *Mask.*
 456. *rubellum*, *Ckll.*
 457. *schini*, *Licht. MS., Ckll.*
 458. *batatae*, *Ckll.*
 459. *punctatum*, *Ckll.*
 460. *imbricatum*, *Ckll.*
 461. *baccharidis*, *Ckll.*
 462. *urichi*, *Ckll.*
 463. *reticulatum*, *Ckll.*

332 *Illinois State Laboratory of Natural History.*

464. *sallei*, *Sign.*
 465. *monile*, *Ckll.*
 466. *verrucosum*, *Sign.*
 467. *pseudosemen*, *Ckll.*
 468. *begoniæ*, *Dougl.*
 ? *v. of nigrum*, *Nietn.*
 782. *nanum*, *Ckll.*
 Oriental and Ind. Ocean.
 469. *viride*, *Green.*
 470. *guerinii*, *Sign.*
 471. *nigrum*, *Nietn.*
 ? *v. depressum*, *Targ.*
 ? *v. begoniæ*, *Dougl.*
 472. *coffeæ*, *Walk.*
 ? *v. of hemisphæricum*,
 Targ.
 473. *mangiferae*, *Green.*
 474. *planum*, *Green.*
 v. maritimum, *Green.*
 475. *ophiorrhizæ*, *Green.*
 476. *geometricum*, *Green.*
 477. *marginatum*, *Green.*
 478. *expansum*, *Green.*
 479. *antidesmæ*, *Green.*
 480. *caudatum*, *Green.*
 481. *acutissimum*, *Green.*
 482. *piperis*, *Green.*
 483. *formicarium*, *Green.*
 Australian.
 484. *patersoniæ*, *Mask.*
 485. *pingue*, *Mask.*
 486. *scrobiculatum*, *Mask.*
 487. *baccatum*, *Crawf. MS., Mask.*
 488. *frenchii*, *Mask.*
 New Zealand.
 489. *cassinia*, *Mask.*
 s. g. Thoumeyella, *Ckll.*
 490. *mirabile*, *Ckll.*
 491. *quadrifasciatum*, *Ckll.*
 s. g. Pseudokermes, *Ckll.*
 492. *nitens*, *Ckll.*
 s. g. Eulecanium, *Ckll.*
 Palæarctic.
 493. *aceris*, *Schr.*
 494. *æsculi*, *Koll.*
 495. *tiliæ*, *Linn.*
 496. *ulmi*, *Linn.*
 v. fasciatum, *Costa.*
 497. *alni*, *Mod.*
 498. *berberidis*, *Schr.*
 499. *capreae*, *Linn.*
 s. cypræola, *Dalm.*
 s. gibber, *Dalm.*
 s. salicis, *Bouché.*
 500. *cerasi*, *Goethe.*
 501. *ciliatum*, *Dougl.*
 502. *corni*, *Bouché.*
 503. *coryli*, *Linn.*
 504. *distinguendum*, *Dougl.*
 505. *fuscum*, *Gmel.*
 506. *quercus*, *Linn.*
 507. *genevense*, *Targ.*
 508. *bituberculatum*, *Targ. MS.,*
 Sign.
 509. *juglandis*, *Bouché.*
 ? *s. juglandifex*, *Fitch.*
 ? *s. variegatum*, *Goethe.*
 510. *mori*, *Sign.*
 511. *persicæ*, *Fabr.*
 512. *prunastri*, *Fonsc.**
 513. *pyri*, *Schr.*
 514. *rosarum*, *Snell.*
 515. *rotundum*, *Sign. ex Réaum.*
 516. *rugosum*, *Sign.*
 517. *sarothamni*, *Dougl.*
 518. *douglasi*, *Sulc.*
 519. *rubi*, *Schr.*
 Nearctic.
 520. *antennatum*, *Sign.*
 521. *caryæ*, *Fitch.*
 v. canadense, *Ckll.*
 522. *cerasifex*, *Fitch.*
 522. *fletcheri*, *Ckll.*

* According to Mr. R. Newstead (*in litt.*), *L. prunastri* and *L. rotundum* are forms of one species.

523. armeniacum, *Craw.* *Aclerda*, Sign.
 ? v. of pruinorum. 540. subterranea, Sign.
524. pruinorum, *Comst. MS., Coq.*
525. corylifex, *Fitch.* **Diaspinæ.**
 ? s. of coryli, L.
526. cynosbati, *Fitch.* *Aspidiotus*, Bouché.
527. fitchi, Sign. *Palæarctic.*
528. quercitronis, *Fitch.* 541. abietis, *Schr.*
 529. robiniarum, *Dougl.* s. pini, *Comst.*
 s. robinia, *Riley MS., Thoms.* s. abietis, *Comst.*
530. quercifex, *Fitch.* 542. affinis, *Targ.*
531. ribis, *Fitch.* 543. betulæ, *Baer.*
532. tarsale, Sign. 544. caldesii, *Targ.*
533. tulipiferæ, *Cook.* 545. ceratonis, Sign.
 534. lintneri, *Ckll. & Benn.* 62. ericæ, *Boisd.*
- Myxolecanium*, Beccari. 546. denticulatus, *Targ.*
 535. kibaræ, Beccari. 547. duplex, *Ckll.*
- Genus incert.** 63. genistæ, *Westw.*
 s. ulicis, Sign.
53. angræci, *Boisd.* 64. gnidii, Sign.
54. australe, *Walk.* 548. hederæ, *Vall.*
 ? v. nerii, Bouché.
55. cambii, *Ratz.* 549. hippocastani, Sign.
56. capense, *Walk.* 550. ilicis, Sign.
57. epidendri, *Bouché.* 551. juglandis, *Colv.*
 ? s. *Asterolecanium oncidii.* ? s. juglans-regiæ, *Comst.*
58. gigas, *Bremi.* 552. lentisci, Sign.
- ? s. of *Kermes* sp. 553. niger, Sign.
59. vagabundum, *Kalt. ex Först.* 554. oleæ, *Colv.*
60. vulgare, *Först.* 555. oleastri, *Colv.*
- Lecanopsis*, Targ. 556. ostreæformis, *Curt.*
 s. pyri, *Licht.*
- Palæarctic.* 557. oxyacanthæ, Sign.
536. rhizophila, *Targ.* 558. zonatus, *Frauenf.*
 537. formicarum, *Newst.* s. quercus, Sign.
783. brevicornis, *Newst.* 559. spurcatus, Sign.
- Mexican.* 560. secretus, *Ckll.*
61. dugesii, *Licht. MS., Sign.* 561. signoreti, *Comst.*
 s. Targionia nigra, Sign.
- Australia.* 562. tilia, Sign.
784. filicum, *Mask.* 563. villosus, *Targ.*
- Spermococcus*, Giard. 564. vitis, Sign.
538. fallax, *Giard.* 565. piricola, *Del Guercio.*
 ? s. of *Diaspis pyri*, *Colv. ♀*,
- Exæretopus*, Newst. 785. albopunctatus, *Ckll.*
539. formiceticola, *Newst.*

786. minimus, *Leon.*
 787. patavinus, *Berl.*
 Patria incerta.
 566. aloes, *Boisd.*
 567. budleiaë, *Sign.*
 568. rapax, *Comst.*
 s. camelliaë, Sign., nec Bdv.
 ? *s. convexus, Comst.*
 569. chamæropsis, *Sign.*
 570. aurantii, *Mask.*
 s. coccineus, Genn.
 s. citri, Comst.
 v. citrinus, Coquill.
 571. cyanophylli, *Sign.*
 572. cycadicola, *Boisd.*
 573. destructor, *Sign.*
 v. fallax, Ckll.
 s. cocotis, Newst.
 574. epidendri, *Bouché.*
 65. kennedyæ, *Boisd.*
 575. lataniaë, *Sign.*
 576. myrsinaë, *Sign.*
 577. nerii, *Bouché.*
 ? *v. of hederæ, Vall.*
 v. limonii, Sign.
 66. palmarum, *Bouché.*
 578. pandani, *Sign.*
 579. perniciosus, *Comst.*
 580. phormii, *de Brème.*
 581. sphærioides, *Ckll.*
 582. vriesciæ, *Sign.*
 583. spinosus, *Comst.*
 788. degeneratus, *Leon.*
 789. minor, *Berl.*
 Nearctic.
 584. ancylus, *Putn.*
 585. howardi, *Ckll.*
 586. forbesi, *W. G. Johns.*
 587. æsculi, *W. G. Johns.*
 588. cydoniaë, *Comst.*
 589. juglans-regiaë, *Comst.*
 ? *s. of juglandis, Colv.*
 v. pruni, Ckll.
 v. albus, Ckll.
 590. obscurus, *Comst.*
 591. perseæ, *Comst.*
 592. smilacis, *Comst.*
 593. tenebriosus, *Comst.*
 594. comstocki, *W. G. Johns.*
 595. uvæ, *Comst.*
 v. coloratus, Ckll.
 596. townsendi, *Ckll.*
 Neotropical.
 597. nigropunctatus, *Ckll.*
 598. yuccæ, *Ckll.*
 599. bowreyi, *Ckll.*
 600. latastei, *Ckll.*
 601. ficus, *Ashm.*
 602. scutiformis, *Ckll.*
 603. articulatus, *Morg.*
 604. personatus, *Comst.*
 605. biformis, *Ckll.*
 v. cattleyæ, Ckll.
 v. odontoglossi, Ckll.
 606. dictyospermi, *Morg.*
 v. arecæ, Newst.
 v. jamaicensis, Ckll.
 607. mangiferaë, *Ckll.*
 608. punicæ, *Ckll.*
 609. diffinis, *Newst.*
 s. affinis, Newst. præocc.
 v. lateralis, Ckll.
 610. palmæ, *Morg. & Ckll.*
 611. mimosæ, *Comst.*
 612. sacchari, *Ckll.*
 613. hartii, *Ckll.*
 v. luntii, Ckll.
 614. longispina, *Morg.*
 Fiji Islands.
 615. vitiensis, *Mask.*
 Oriental.
 616. theæ, *Mask. nec Green.*
 67. transparens, *Green.*
 ? *s. of nerii, Bouché.*
 617. orientalis, *Newst.*
 618. osbeckiaë, *Green.*
 619. occultus, *Green.*
 620. trilobitiformis, *Green.*
 Australian.
 621. ceratus, *Mask.*

622. unilobis, *Mask.*
 623. extensus, *Mask.*
 624. acaciæ, *Morg.*
 v. propinquus, Mask.
 625. casuarinæ, *Mask.*
 626. eucalypti, *Mask.*
 627. subrubescens, *Mask.*
 628. fimbriatus, *Mask.*
 629. fodiens, *Mask.*
 630. bossiæ, *Mask.*
 631. cladii, *Mask.*
 632. rossi, *Crawf. MS., Mask.*
 New Zealand.
 633. corokiæ, *Mask.*
 634. dysoxylis, *Mask.*
 635. atherospermiæ, *Mask.*
 636. carpodeti, *Mask.*
 637. sophoræ, *Mask.*
Comstockiella, *Ckll.*
 638. sabalis, *Comst.*
Diaspis, *Costa.*
 Palæarctic.
 639. blankenhorni, *Targ.*
 640. colvei, *Penzig.*
 641. carueli, *Targ.*
 642. juniperi, *Bouché.*
 643. minima, *Targ.*
 644. leperii, *Sign.*
 645. pentagona, *Targ.*
 646. pyri, *Colvée.*
 ? *s. of circularis, Fitch.*
 ? *v. pyri, Boisd. ex err.*
 ? *v. ostreæformis, Sign. ex*
 err.
 ? *v. piricola, Del Guercio.*
 647. visci, *Schr.*
 648. patelliformis, *Sasaki.*
 Patria incerta.
 649. calyptroides, *Costa.*
 650. zamiæ, *Morg.*
 651. amygdali, *Tryon.*
 v. lanatus, Morg. & Ckll.
 652. pinnulifera, *Mask.*
 Nearctic.
 653. cacti, *Comst.*
 ? *v. of calyptroides, Costa.*
 654. toumeyii, *Ckll.*
 Neotropical.
 653 a. cacti *v. opuntia, Ckll.*
 v. opunticola, Newst.
 655. chilensis, *Ckll.*
 New Zealand.
 656. santali, *Mask.*
 Oriental.
 657. flavescens, *Green.*
Aulacaspis, *Ckll.*
 Palæarctic.
 658. rosæ, *Bouché.*
 Patria incerta.
 659. boisduvalii, *Sign.*
 ? *v. tentaculatus, Morg.*
 660. bromeliæ, *Kerner.*
 68. cymbidii, *Bouché.*
 Nearctic.
 790. texensis, *Ckll.*
Pseudoparlatoria, *Ckll.*
 661. parlatorioides, *Comst.*
 662. ostreata, *Ckll.*
Parlatoria, *Sign.*
 Palæarctic.
 663. victrix, *Ckll.*
 664. zizyphus, *Lucas.*
 665. targionii, *Del Guercio.*
 666. theæ, *Ckll.*
 v. viridis, Ckll.
 791. calianthina, *Berlese.*
 Patria incerta.
 667. pergandei, *Comst.*
 v. camelliæ, Comst.
 v. crotonis, Ckll.
 668. proteus, *Curt.*
 Australia.
 669. pittospori, *Mask.*
 670. myrtus, *Mask.*

Syngenaspis, Sulc.

792. *parlatoriæ*, *Sulc.*

Mytilaspis, Sign.

Palaearctic.

69. *abietis*, *Sign. nec Schr.*
? *v. of linearis*, *Mod.*

70. *anguinus*, *Bosqd.*
? *alii generis.*

671. *ficus*, *Sign.*
672. *flava*, *Targ.*
? *v. of linearis*, *Mod.*

674. *linearis*, *Mod.*
s. arborum, *Schr.*
s. conchiformis, *Gm.*
s. falciformis, *Baer.*

793. *newsteadi*, *Sulc.*
675. *pomorum*, *Bouché.*
? *v. of linearis*, *Mod.*
s. pyrus-malus, *Kenn.*
s. juglandis, *Fitch.*
s. pomicorticis, *Riley.*
? *v. juglandis*, *Sign.*
? *v. vitis*, *Goethe.*
? *v. ulicis*, *Dougl.*
? *v. flava*, *Targ.*

71. *saliceti*, *Bouché.*
? *s. of Chionaspis salicis*, *L.*

676. *crawii*, *Ckll.*
Patria incerta.

677. *pinnæformis*, *Bouché.*
? *v. citricola*, *Pack.*

678. *citricola*, *Pack.*
s. flavescens, *Targ.*
s. fulva, *Targ.*
? *v. of pinnæformis*, *Bouché.*

679. *gloverii*, *Pack.*
680. *longirostris*, *Sign.*
? *s. Ischnospis filiformis*, *Dgl.*

Neotropical.

681. *philococcus*, *Ckll.*
682. *crotonis*, *Ckll.*
683. *alba*, *Ckll.*
794. *carinata*, *Ckll.*

Nearctic.

683a. *alba v. concolor*, *Ckll.*

Sandwich Is.

672a. *flava v. hawaiiensis*, *Mask.*

Oriental.

684. *elongata*, *Green.*
685. *pallida*, *Green.*

Australia.

686. *striata*, *Mask.*
687. *nivea*, *Mask.*
688. *grisea*, *Mask.*
689. *pallens*, *Mask.*
690. *casuarinæ*, *Mask.*
691. *formosa*, *Mask.*
692. *spinifera*, *Mask.*
693. *convexa*, *Mask.*
694. *grandilobis*, *Mask.*

New Zealand.

695. *intermedia*, *Mask.*
696. *lactea*, *Mask.*
697. *pyriformis*, *Mask.*
698. *phymatodidis*, *Mask.*
699. *metrosideri*, *Mask.*
700. *leptospermi*, *Mask.*
701. *cordylinidis*, *Mask.*
702. *drimydis*, *Mask.*
703. *epiphytidis*, *Mask.*

Pinnaspis, Ckll.

704. *buxi*, *Bouché.*
? *v. pandani*, *Comst.*
705. *pandani*, *Comst.*
? *v. of buxi*, *Bouché.*
706. *bambusæ*, *Ckll.*

Chionaspis, Sign.

Palaearctic.

707. *aceris*, *Sign.*
708. *alni*, *Sign.*
709. *myrthi*, *Bouché.*
710. *planchonii*, *Sign.*
711. *populi*, *Baer.*
72. *rosæ*, *Goethe.*
712. *salicis*, *L.*
? *s. saliceti*, *Bouché.*
? *v. fraxini*, *Sign.*
s. maquarti, *Targ.*
713. *fraxini*, *Sign.*

- ? v. of salicis, *L.*
 714. vaccinii, *Bouché.*
 s. myrtilli, *Kalt.*
 715. sorbi, *Dougl.*
 716. latus, *Ckll.*
 717. bambusæ, *Ckll.*
 795. difficilis, *Ckll.*
 796. nerii, *Newst.*
 797. bilobis, *Newst.*
 Patria incerta.
 718. aspidistræ, *Sign.*
 719. biclavis, *Comst.*
 v. detecta, *Mask.*
 720. braziliensis, *Sign.*
 721. citri, *Comst.*
 722. minor, *Mask.*
 Nearctic.
 723. americana, *W. G. Johns.*
 724. euonymi, *Comst.*
 725. furfurus, *Fitch.*
 s. harrisii, *Walsh.*
 s. cerasi, *Fitch.*
 726. salicis-nigræ, *Walsh.*
 ? v. of salicis, *L.*
 727. ortholobis, *Comst.*
 728. pinifoliæ, *Fitch.*
 729. nyssæ, *Comst.*
 730. spartinæ, *Comst.*
 731. lintneri, *Comst.*
 Neotropical.
 732. major, *Ckll.*
 Sandwich Is.
 733. prunicola, *Mask.*
 Oriental.
 734. theæ, *Mask.*
 73. gossypii, *Fitch.*
 718a. aspidistræ v. mussændæ,
 Green.
 743a. eugeniae v. varicosa, *Green.*
 v. litzeæ, *Green.*
 735. vitis, *Green.*
 736. graminis, *Green.*
 737. minuta, *Green.*
 738. acuminata, *Green.*
 739. elæagni, *Green.*
 740. exercitata, *Green.*
 Australian.
 741. assimilis, *Mask.*
 742. nitida, *Mask.*
 743. eugeniae, *Mask.*
 744. xerotidis, *Mask.*
 New Zealand.
 745. dubia, *Mask.*
 746. dysoxylis, *Mask.*
Leucaspis, *Sign.*
 Palearctic.
 74. epidaurica, *Genn.*
 747. loewi, *Colv.*
 748. pusilla, *Lw.*
 749. pini, *Hartig.*
 s. candida, *Targ.*
 750. signoreti, *Targ.*
 Australian.
 751. cordylinidis, *Mask.*
Ischnaspis, *Dougl.*
 752. filiformis, *Dougl.*
 ? s. of longirostris, *Sign.*
Fiorinia, *Targ.*
 Palearctic.
 753. sulcii, *Newst.**
 Patria incerta.
 754. fioriniæ, *Targ.*
 s. arecæ, *Boisd.*
 s. pellucida, *Targ.*
 v. camelliæ, *Comst.*
 Australia.
 755. acaciæ, *Mask.*
 756. expansa, *Mask.*
 757. rubra, *Mask.*
 758. syncarpiae, *Mask.*
 New Zealand.
 759. grossulariæ, *Mask.*
 760. minima, *Mask.*
 761. stricta, *Mask.*

*Mr. Sule regards this as a *Leucaspis*.

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| 762. <i>gigas</i> , Mask. | New Zealand. |
| s. <i>asteliae</i> , Mask. | 769. <i>media</i> , Mask. |
| Oriental. | <i>Aonidia</i> , Sign. |
| 763. <i>saprosmae</i> , Green. | Palæarctic. |
| 764. <i>secreta</i> , Green. | 770. <i>lauri</i> , Bouche. |
| 765. <i>scrobicularum</i> , Green. | 771. <i>blanchardi</i> , Targ. |
| 766. <i>palmæ</i> , Green. | Oriental. |
| <i>Poliaspis</i> , Mask. | 772. <i>corniger</i> , Green. |
| Patria <i>incerta</i> . | Australia. |
| 767. <i>cycadis</i> , Comst. | 773. <i>fusca</i> , Mask. |
| Australia. | |
| 768. <i>exocarpi</i> , Mask. | |

ADDENDA TO JULY 21.

Since the above list was put into the printer's hands, several publications have appeared to which brief reference must be made. Berlese and Leonardi have proposed some new genera of Diaspinæ,—*Howardia* (with *H. elegans*, Leon.), *Aonidiella*, and *Aspidites*; besides giving *Chrysomphalus* generic rank and proposing a new subgenus *Diaspidiotus*. It appears to me, however, that the characters used to distinguish these genera are not always of generic value, while *Howardia* is made to include forms which are really not congeneric.

Newstead has published, as new, *Icerya ewarti* and *Aspidiotus maculatus* from Lagos, and *Parlatoria distinctissima* (which seems to be an *Aonidia*) from Baluchistan.

Mr. Claude Fuller, since the lamentable death of Mr. Olliff, has published the following, to which MS names had been given by Olliff: *Brachyscelis pedunculata*, *B. crispa*, *B. nux*, *B. shraderi*, *B. fletcheri*.

Mr. Green (Ind. Mus. Notes) has given a preliminary account of seventy-two Coccids found in Ceylon. To these may be added the following, kindly communicated from Mr. Green's MSS, bringing the Ceylon list to eighty-seven:

<i>Aspidiotus ficus</i> , Ashm.	<i>Aonidia lullata</i> , Green.
" <i>rossi</i> , Mask.	" <i>loranthi</i> , Green.
" <i>cyanophylli</i> , Sign.	" <i>obscura</i> , Green.
" <i>excisus</i> , Green.	<i>Mytilaspis cocculi</i> , Green.
" <i>putearius</i> , Green.	" <i>gloverii</i> , Pack.
" <i>cydoniæ</i> , Comst.	<i>Diaspis fagrææ</i> , Green.
" <i>secretus</i> , Ckll.	<i>Conchaspis socialis</i> , Green.
" <i>inuitatus</i> , Green.	

Mr. Green informs me that his *Diaspis circulata* is *Aspidiotus camelliæ*, and that *Dactylopius talini* is *D. ceriferus*.

Miss M. W. Tyrrell has published *Lecanium pruinosum* v. *kermoides* from California. I doubt if it belongs to *pruinsum*.

T. D. A. C.