

TRANSACTIONS
OF THE
NEW ZEALAND INSTITUTE,
1894.

I.—ZOOLOGY.

ART. I.—*Synoptical List of Coccidæ reported from Australasia and the Pacific Islands up to December, 1894.*

By W. M. MASKELL, Registrar of the University of New Zealand, Corr. Mem. Roy. Soc. of South Australia.

[Read before the Wellington Philosophical Society, 17th October, 1894.]

Sub-family DIASPIDINÆ.

Genus *Aspidiotus*, Bouché.

This genus is cosmopolitan.

ASPIDIOTUS ACACIÆ, Morgan.—Morgan, Ent. Mo. Mag., Aug., 1889, p. 353; Maskell, N.Z. Inst. Trans., 1892, p. 205.

Hab. In Tasmania, on *Acacia pycnantha*; in New South Wales, on *Eucalyptus* sp. (Whitton).

ASPIDIOTUS ACACIÆ, Morgan, var. *propinqua*, Maskell.—Maskell, N.Z. Trans., 1892, p. 205.

Hab. In New South Wales, on *Acacia* sp. (Mount Victoria); on *Hakea saligna* (Sydney).

ASPIDIOTUS ATHEROSPERMÆ, Maskell.—Maskell, N.Z. Trans., 1878, p. 198; Scale-Insects of N.Z., 1887, p. 40.

Hab. In New Zealand, on *Atherosperma nova-zealandia* (Wellington; Hawke's Bay).

ASPIDIOTUS AURANTII, Maskell. *Aspidiotus coccineus*, Gennadius (Risso, Hist. Nat. des Oranges). *Aspidiotus citri*, Comstock, Canadian Entomologist, vol. xiii., p. 8.—Maskell, N.Z. Trans. 1878, p. 199; ib., 1881, p. 217; ib., 1883, p. 120; ib., 1891, p. 12; ib., 1892, p. 206; ib., 1894, p. 40; Scale-Insects of N.Z., 1887, p. 40. Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 293; 2nd Cornell University Ent. Rep., 1883, p. 59. Riley and Howard, "Insect Life," passim. Royal Gardens, Kew, Bulletin, Sept., 1891, p. 221.

Hab. In Australia, New Zealand, Fiji, Sandwich Islands, Samoa, Tonga, New Caledonia, on *Citrus*. Occurs on the same trees in many other countries: in California and in Jamaica on *Eucalyptus*, *Lignum-vitæ*, &c.

ASPIDIOTUS BOSSIÆ, Maskell.—Maskell, N.Z. Trans., 1891, p. 10.

Hab. In Australia, on *Bossia procumbens* (Victoria).

ASPIDIOTUS BUDLEIÆ, Signoret.—Signoret, Ann. de la Soc. Ent. de France, 1868, p. 115. Maskell, N.Z. Trans., 1878, p. 198; Scale-Insects of N.Z., 1887, p. 40.

Hab. In New Zealand, on *Acacia* sp. (Nelson).

ASPIDIOTUS CAMELLIÆ, Signoret. *Aspidiotus rapax*, Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 307.—Signoret, Ann. de la Soc. Ent. de France, 1868, p. 117. Maskell, N.Z. Trans., 1878, p. 200; ib., 1884, p. 21; ib., 1890, p. 3; ib., 1894, p. 39; Scale-Insects of N.Z., 1887, p. 41. Morgan, Ent. Mo. Mag., Aug., 1889, p. 351.

Hab. In New Zealand, on *Camellia japonica*, *Euonymus japonicus*, *Salix babylonica* (Christchurch; Wellington); in Europe, on *Camellia*; in North America, on *Euonymus*, *Olea*, and other plants.

ASPIDIOTUS CARPODETI, Maskell.—Maskell, N.Z. Trans., 1884, p. 21; Scale-Insects of N.Z., 1887, p. 41.

Hab. In New Zealand, on *Carpodetus serratus*, *Vitex littoralis* (Wellington).

ASPIDIOTUS CASUARINÆ, Maskell.—Maskell, N.Z. Trans., 1893, p. 66.

Hab. In Australia, on *Casuarina equisetifolia* (New South Wales).

ASPIDIOTUS CERATUS, Maskell.—Maskell, N.Z. Trans., 1894, p. 39.

Hab. In Australia, on *Acacia stenophylla* (South Australia).

ASPIDIOTUS CLADII, Maskell.—Maskell, N.Z. Trans., 1890, p. 3; *ib.*, 1892, p. 205; *ib.*, 1893, p. 67; *ib.*, 1894, p. .

Hab. In Australia, on *Cladium* sp. (Victoria); on *Lepidosperma* sp. (South Australia); on *Xerotes* sp. (New South Wales).

ASPIDIOTUS COROKIÆ, Maskell.—Maskell, N.Z. Trans., 1890, p. 2.

Hab. In New Zealand, on *Corokia cotoneaster* (Reefton).

ASPIDIOTUS CYDONIÆ, Comstock.—Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 295. Maskell, N.Z. Trans., 1891, p. 13.

Hab. In Samoa, on *Citrus*; in North America, on *Cydonia vulgaris* (Florida).

ASPIDIOTUS DYSOXYLI, Maskell.—Maskell, N.Z. Trans., 1878, p. 198; *Scale-Insects of N.Z.*, 1887, p. 43.

Hab. In New Zealand, on *Dysoxylon spectabile* (Wellington).

ASPIDIOTUS EPIDENDRI, Bouché. *Chermes epidendri*, Boisduval. —Bouché, Ent. Zeit. Stett., 1844, p. 293. Boisduval, Ent. Hort., 1867, p. 339. Signoret, Ann. de la Soc. Ent. de France, 1868, p. 121. Maskell, N.Z. Trans., 1878, p. 197; *Scale-Insects of N.Z.*, 1887, p. 44.

Hab. In New Zealand, on *Acacia* sp. (Christchurch); in Europe, on hothouse orchids.

ASPIDIOTUS EUCALYPTI, Maskell.—Maskell, Trans. Roy. Soc. South Australia, vol. xi., 1887–88, p. 102; N.Z. Trans., 1891, p. 11; *ib.*, 1892, p. 206.

Hab. In Australia, on *Eucalyptus*, var. sp. (South Australia); on *Casuarina* sp. (New South Wales).

ASPIDIOTUS EXTENSUS, Maskell.—Maskell, N.Z. Trans., 1894, p. 41.

Hab. In Australia, on *Eucalyptus capitellata* (New South Wales; Victoria).

ASPIDIOTUS FICUS, Comstock.—Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 296. Maskell, N.Z. Trans., 1894, p. 39.

Hab. In Australia, on various plants, probably *Citrus*, in Botanical Gardens, and elsewhere (New South Wales; Queensland).

ASPIDIOTUS FODIENS, Maskell.—Maskell, N.Z. Trans., 1891, p. 10.

Hab. In Australia, on *Acacia* sp. (Victoria).

ASPIDIOTUS KENNEDYÆ, Boisduval.—Boisduval, Ent. Hort.,

- 1867, p. 326. Signoret, Ann. de la Soc. Ent. de France, 1868, p. 124.
Hab. In "New Holland," on *Kennedyia* sp.
- ASPIDIOTUS LONGISPINA, Morgan.—Morgan, Ent. Mo. Mag., August, 1889, p. 352. Maskell, N.Z. Trans., 1894, p. 38.
Hab. In Sandwich Islands, on *Citrus* and *Mangifera*; in Demerara, on *Cupania sapida*.
- ASPIDIOTUS NERII, Bouché. *Aspidiotus bouchei*, Targioni-Tozzetti.—Bouché, Schädl. Gart. Insek., 1883, p. 52. Signoret, Ann. de la Soc. Ent. de France, 1868, p. 126. Targioni, Studie sulle Coccineglie, 1867. Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 301. Maskell, N.Z. Trans., 1881, p. 217; Scale-Insects of N.Z., 1887, p. 44.
Hab. In New Zealand, on *Coprosma lucida* and *Corynocarpus lævigatus* (Wellington); in Australia, on *Oleander*, *Citrus*, *Acacia*, &c. (South Australia; New South Wales; Victoria; Queensland); in Sandwich Islands, on apple and pear; in North America, on *Citrus*, *Oleander*, &c.; in Europe, on many diverse plants.
Probably cosmopolitan and omnivorous.
- ASPIDIOTUS PHORMII, Brème.—Signoret, Ann. de la Soc. Ent. de France, 1868, p. 130.
Hab. In Europe, on *Phormium tenax* (New Zealand flax).
- ASPIDIOTUS ROSSI, Maskell (Crawford).—Maskell, N.Z. Trans., 1890, p. 3; *ib.*, 1891, p. 11; *ib.*, 1892, p. 207.
Hab. In Australia, on *Oleander*, *Eucalyptus*, *Ricinocarpus*, *Xanthorrhæa*, and many other plants (South Australia; Victoria; New South Wales; Queensland).
- ASPIDIOTUS SOPHORÆ, Maskell.—Maskell, N.Z. Trans., 1883, p. 121; Scale-Insects of N.Z., 1887, p. 45.
Hab. In New Zealand, on *Sophora tetraptera* (Christchurch).
- ASPIDIOTUS SUBRUBESCENS, Maskell.—Maskell, N.Z. Trans., 1891, p. 9; *ib.*, 1892, p. 207.
Hab. In Australia, on *Eucalyptus*, var. sp. (Victoria); on *Banksia* sp. (New South Wales).
- ASPIDIOTUS UNILOBIS, Maskell.—Maskell, N.Z. Trans., 1894, p. 40.
Hab. In Australia, on *Acacia* sp. (tea-tree) (New South Wales).
- ASPIDIOTUS VITIENSIS, Maskell.—Maskell, N.Z. Trans., 1894, p. 40.
Hab. In Fiji, on various forest-trees.

Genus **Aonidia**, Targioni-Tozzetti.

This genus has hitherto been reported only from Europe and Australia.

AONIDIA FUSCA, Maskell.—Maskell, N.Z. Trans., 1894, p. 43.

Hab. In Australia, on peach (New South Wales).

Genus **Diaspis**, Costa.

This genus appears to be nearly, if not quite, cosmopolitan, but probably prefers tropical or, at least, warm countries.

DIASPIS AMYGDALI, Tryon.—Tryon, "Report on Insect- and Fungus-pests," 1889, p. 89. Maskell, N.Z. Trans., 1894, p. 44.

Hab. In Australia, on peach (*Persica vulgaris*) (New South Wales; Queensland).

DIASPIS BOISDUVALII, Signoret.—Signoret, Ann. de la Soc. Ent. de France, 1868, p. 432. Maskell, N.Z. Trans., 1878, p. 200; *ib.*, 1884, p. 23; *ib.*, 1894, p. 44; Scale-Insects of N.Z., 1887, p. 46.

Hab. In New Zealand, on various hothouse plants (Christchurch; Wellington); on *Acacia* sp. (Wellington); in Australia, on hothouse orchids (South Australia); in Europe, on hothouse orchids; in Sandwich Islands, on orchids.

DIASPIS FIMBRIATA, Maskell.—Maskell, N.Z. Trans., 1892, p. 208.

Hab. In Australia, on *Eugenia smithii* (New South Wales).

DIASPIS PINNULIFERA, Maskell.—Maskell, N.Z. Trans. 1890, p. 4; *ib.*, 1892, p. 208; *ib.*, 1894, p. 44.

Hab. In Fiji, on (?); in Demerara, on *Croton* sp.

DIASPIS ROSÆ, Sandberg. — Sandberg, Abhand. priv. Boh., 1784, p. 317. Signoret, Ann. de la Soc. Ent. de France, 1868, p. 441. Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 312. Maskell, N.Z. Trans., 1878, p. 201; Scale-Insects of N.Z., 1887, p. 47.

Hab. In New Zealand, on rose (*passim*); in Sandwich Islands, on rose; in Australia, on rose (*passim*); in Europe, North America, China, &c., on rose.

DIASPIS SANTALI, Maskell. — Maskell, N.Z. Trans., 1883, p. 122; Scale-Insects of N.Z., 1887, p. 47.

Hab. In New Zealand, on *Santalum cunninghamii* (Hawke's Bay).

Genus **Parlatoria**, Targioni-Tozzetti.

This genus appears to exist (in the open air) only in tropical or warm countries.

PARLATORIA MYRTUS, Maskell.—Maskell, N.Z. Trans., 1890, p. 12.

Hab. In Australia, on *Myrtus communis* (Victoria).

PARLATORIA PITTOSPORI, Maskell.—Maskell, N.Z. Trans., 1890, p. 11.

Hab. In Australia, on *Pittosporum undulatum* (Victoria).

PARLATORIA PROTEUS, Curtis. *Aspidiotus proteus*, Curtis. *Parlatoria orbicularis*, Targioni-Tozzetti.—Curtis, Gard. Chron., 1843, p. 674, Targioni, Catal., 1868, p. 42. Signoret, Ann. de la Soc. Ent. de France, 1868, p. 451. Comstock, 2nd Corn. Univ. Ent. Rep., 1883, p. 114. Maskell, N.Z. Trans., 1892, p. 213.

Hab. In Australia, on apple (Queensland).

Genus **Mytilaspis**, Targioni-Tozzetti.

This genus is probably cosmopolitan.

MYTILASPIS CASUARINÆ, Maskell.—Maskell, N.Z. Trans., 1892, p. 209.

Hab. In Australia, on *Casuarina* sp.

MYTILASPIS CITRICOLA, Packard.—Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 321. Maskell, N.Z. Trans., 1889, p. 135; *ib.*, 1894, p. 48.

Hab. In New Zealand, on *Citrus* (Reefton); in Fiji, on *Citrus*; in Australia, on *Citrus* (New South Wales; Queensland); in North America, on *Citrus* (Florida); in South Australia, on *Croton* in stoves; in Victoria, on *Banksia integrifolia*.

MYTILASPIS CONVEXA, Maskell.—Maskell, N.Z. Trans., 1893, p. 70.

Hab. In Australia, on *Acacia* sp. (New South Wales).

MYTILASPIS CORDYLINIDIS, Maskell.—Maskell, N.Z. Trans., 1878, p. 195; Scale-Insects of N.Z., 1887, p. 48.

Hab. In New Zealand, on *Cordyline australis* (passim).

MYTILASPIS DRIMYDIS, Maskell.—Maskell, N.Z. Trans., 1878, p. 196; Scale-Insects of N.Z., 1887, p. 49.

Hab. In New Zealand, on *Drimys colorata* (Dunedin).

MYTILASPIS EPIPHYTIDIS, Maskell.—Maskell, N.Z. Trans., 1884, p. 21; Scale-Insects of N.Z., 1887, p. 49.

Hab. In New Zealand, on *Astelia cunninghamii* (Wellington).

MYTILASPIS FLAVA, Targioni-Tozzetti, var. *hawaiiensis*, Maskell.—Maskell, N.Z. Trans., 1894, p. 47. Targioni-Tozzetti, Catal., 1868, p. 44. Comstock, 2nd Corn. Univ. Rep., 1883, p. 123.

Hab. In Sandwich Islands, on "bark of shade trees."

MYTILASPIS FORMOSA, Maskell.—Maskell, N.Z. Trans., 1893, p. 68.

Hab. In Australia, on *Eucalyptus orbifolia* (Western Australia); on *Eucalyptus corynocalyx* (South Australia).

MYTILASPIS GLOVERII, Packard.—Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 323. Maskell, N.Z. Trans., 1890, p. 8.

Hab. In Australia, on *Citrus* (Victoria).

MYTILASPIS GRANDILOBIS, Maskell.—Maskell, N.Z. Trans., 1893, p. 70.

Hab. In Australia, on *Banksia* sp. (Victoria).

MYTILASPIS GRISEA, Maskell.—Maskell, N.Z. Trans., 1889, p. 133.

Hab. In Australia, on *Eucalyptus*, var. sp., and on *Acacia*, var. sp. (New South Wales).

MYTILASPIS INTERMEDIA, Maskell.—Maskell, N.Z. Trans., 1890, p. 7.

Hab. In New Zealand, on *Leptospermum scoparium* (Reefton).

MYTILASPIS LACTEA, Maskell.—Maskell, N.Z. Trans., 1894, p. 48.

Hab. In New Zealand, on *Fuchsia excorticata* (Wellington; Woodville).

MYTILASPIS LEPTOSPERMI, Maskell.—Maskell, N.Z. Trans., 1881, p. 215; Scale-Insects of N.Z., 1887, p. 50.

Hab. In New Zealand, on *Leptospermum scoparium* (passim).

MYTILASPIS METROSIDERI, Maskell.—Maskell, N.Z. Trans., 1879, p. 293; Scale-Insects of N.Z., 1887, p. 50.

Hab. In New Zealand, on *Metrosideros robusta* (Wellington).

MYTILASPIS NIVEA, Maskell.—Maskell, N.Z. Trans., 1894, p. 46.

Hab. In Australia, on *Melaleuca nodosa* (New South Wales).

MYTILASPIS PALLENS, Maskell.—Maskell, N.Z. Trans., 1889, p. 134.

Hab. In Australia, on *Xanthorrhæa* sp. (New South Wales).

MYTILASPIS PALLIDA, Green, var. (?).—Maskell, N.Z. Trans., 1894, p. 46.

Hab. In Sandwich Islands, on *Podocarpus* sp.

MYTILASPIS PHYMATODIDIS, Maskell.—Maskell, N.Z. Trans., 1879, p. 292; Scale-Insects of N.Z., 1887, p. 51.

Hab. In New Zealand, on *Phymatodes billardieri* (Auckland; Wellington).

MYTILASPIS POMORUM, Bouché. *Aspidiotus pomorum*, Bouché, 1851. *Aspidiotus conchiformis*, auctorum. *Aspidiotus pyrus-malus*, Kennicott, 1854. *Aspidiotus juglandis*, Fitch, 1856. *Aspidiotus falciformis*, Bärensprung, 1849. *Mytilaspis pomicorticis*, Riley, 1865. *Mytilaspis pomorum*, Signoret, 1868.—Bouché, Ent. Zeit. Stett., 1851, xii. Kennicott, Acad. Sci. Clevel., 1854. Fitch, Ann. Rep. N.Y. State Ag. Soc., 1856. Bärensprung, Journ. d'Alton et Burm., 1849. Riley, Fifth Rep. Missouri State Ent., p. 95. Signoret, Ann. de la Soc. Ent. de France, 1868, p. 98. Maskell, N.Z. Trans., 1878, p. 192; Scale-Insects of N.Z., 1887, p. 51.

Hab. In New Zealand, on apple, pear, hawthorn, &c. (passim); in Australia, on apple (Victoria); in Sandwich Islands, on apple; in Europe and North America, on apple.

MYTILASPIS PYRIFORMIS, Maskell.—Maskell, N.Z. Trans., 1878, p. 194; *ib.*, 1881, p. 215; *ib.*, 1884, p. 22; *ib.*, 1890, p. 4; Scale-Insects of N.Z., 1887, p. 53.

Hab. In New Zealand, on *Coprosma* (Christchurch); on *Dysoxylon spectabile*, *Atherosperma novæ-zealandiæ*, *Rhipogonum* sp., *Pinus* sp. (Wellington).

MYTILASPIS SPINIFERA, Maskell.—Maskell, N.Z. Trans., 1893, p. 69.

Hab. In Australia, on *Acacia pendula* (New South Wales).

MYTILASPIS STRIATA, Maskell.—Maskell, N.Z. Trans., 1894, p. 47.

Hab. In Australia, on *Casuarina* sp. (New South Wales).

Genus **Leucaspis**, Targioni-Tozzetti.

This genus has hitherto been reported only from Europe and Australia.

LEUCASPIS CORDYLINIDIS, Maskell.—Maskell, N.Z. Trans., 1892, p. 209.

Hab. In Australia, on *Cordyline* sp. (New South Wales).

Genus **Poliaspis**, Maskell.

This genus has hitherto been reported only from Australia, New Zealand, and North America.

POLIASPIS EXOCARPI, Maskell.—Maskell, N.Z. Trans., 1891, p. 17; *ib.*, 1893, p. 72; *ib.*, 1894, p. 52.

Hab. In Australia, on *Exocarpus cupressiformis* (Victoria);

on *Santalum* sp. (North Australia); on *Oxylobium trilobatum* (New South Wales).

POLIASPIS MEDIA, Maskell.—Maskell, N.Z. Trans., 1879, p. 293; *ib.*, 1890, p. 9; *Scale-Insects of N.Z.*, 1887, p. 57.

Hab. In New Zealand, on *Veronica* sp., *Leucopogon fraseri*, *Cyathodes acerosa*, various ferns (Wellington; Nelson; Canterbury).

Genus **Chionaspis**, Signoret.

This genus appears to be cosmopolitan.

CHIONASPIS ASSIMILIS, Maskell.—Maskell, Trans. Roy. Soc. South Australia, 1887–88, p. 102.

Hab. In Australia, on *Eucalyptus*, var. sp. (South Australia).

CHIONASPIS (?) BICLAVIS, Comstock, var. *detecta*, Maskell.—N.Z. Trans., 1894, p. 49. Comstock, 2nd Corn. Univ. Ent. Rep., 1883, p. 98.

Hab. In Sandwich Islands, on bark of (?).

CHIONASPIS BRASILIENSIS, Signoret.—Maskell, N.Z. Trans., 1892, p. 210; *ib.*, 1893, p. 68. Signoret, Ann. de la Soc. Ent. de France, 1868, p. 444.

Hab. In Australia, on orchid (New South Wales); in South America, on (?); in Ceylon, on ferns.

CHIONASPIS CITRI, Comstock.—Maskell, N.Z. Trans., 1884, p. 23; *ib.*, 1892, p. 211; *Scale-Insects of N.Z.*, 1887, p. 54. Comstock, 2nd Corn. Univ. Ent. Rep., 1883, p. 100.

Hab. In Tonga (South Pacific), on *Citrus*; in New Zealand, on *Citrus*; in Australia, on *Citrus*; in North America, on *Citrus*.

CHIONASPIS DUBIA, Maskell.—Maskell, N.Z. Trans., 1881, p. 216; *Scale-Insects of N.Z.*, 1887, p. 54.

Hab. In New Zealand, on *Coprosma*, *Rubus*, *Asplenium* (Canterbury; Auckland).

CHIONASPIS DUBIA, Maskell, *forma minor*.—Maskell, N.Z. Trans., 1890, p. 8.

Hab. In New Zealand, on *Leptospermum scoparium*, *Cyathodes acerosa*, *Asplenium* sp. (Wellington; Reefton).

CHIONASPIS DYSOXYLI, Maskell.—Maskell, N.Z. Trans., 1884, p. 22; *ib.*, 1889, p. 135; *ib.*, 1890, p. 8; *Scale-Insects of N.Z.*, 1887, p. 55.

Hab. In New Zealand, on *Dysoxylon spectabile*, *Melicytus ramiflorus*, *Hoheria angustifolia* (Wellington; Hawke's Bay; Auckland; Canterbury).

CHIONASPIS EUGENIÆ, Maskell.—Maskell, N.Z. Trans., 1891, p. 14.

Hab. In Australia, on *Eugenia elliptica*, *Viburnum* sp., *Leptospermum lævigatum*, *Melaleuca ericifolia*, &c. (Victoria; New South Wales):

CHIONASPIS EUGENIÆ, Maskell, var.—Maskell, N.Z. Trans., 1892, p. 211.

Hab. In Australia, on *Eucalyptus* sp. (Victoria).

CHIONASPIS MINOR, Maskell.—Maskell, N.Z. Trans., 1884, p. 33; Scale-Insects of N.Z., 1887, p. 56. Cockerell, Ent. Mo. Mag., 1893, p. 38.

Hab. In New Zealand, on *Parsonsia* sp., *Rhipogonum scandens* (passim); in Jamaica, on palm.

CHIONASPIS NITIDA, Maskell.—Maskell, N.Z. Trans., 1891, p. 15.

Hab. In Australia, on *Daviesia corymbosa* (Victoria; South Australia).

CHIONASPIS PRUNICOLA, Maskell.—Maskell, N.Z. Trans., 1894, p. 49.

Hab. In Sandwich Islands, on "Japanese plum."

CHIONASPIS XEROTIDIS, Maskell.—Maskell, N.Z. Trans., 1894, p. 50.

Hab. In Australia, on *Xerotes longifolia* (New South Wales).

Genus *Fiorinia*, Targioni-Tozzetti.

This genus has hitherto been reported, in the open air, from New Zealand and Australia. It exists in hothouses in Europe and North America.

FIORINIA ACACIÆ, Maskell.—Maskell, N.Z. Trans., 1881, p. 16,

Hab. In Australia, on *Acacia pycnantha* (South Australia).

FIORINIA ASTELIÆ, Maskell. *Diaspis gigas*, Maskell.—Maskell, N.Z. Trans., 1878, p. 201; *ib.*, 1881, p. 217; *ib.*, 1884, p. 24; *ib.*, 1889, p. 137; Scale-Insects of N.Z., 1887, p. 58.

Hab. In New Zealand, on *Atherosperma novæ-zealandiæ*, *Astelia cunninghamii*, *Coprosma* var. sp., *Pittosporum eugenioide*, &c. (passim).

FIORINIA CAMELLIÆ, Comstock.—Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 329; Maskell, N.Z. Trans., 1891, p. 16; *ib.*, 1892, p. 211.

Hab. In Australia, on *Livistonia* sp., and various palms and on *Leptospermum* sp. (New South Wales); in North America, on camellia and palms.

FIORINIA EXPANSA, Maskell.—Maskell, N.Z. Trans., 1894, p. 51.

Hab. In Australia, on *Melaleuca linariifolia* (New South Wales).

FIORINIA GROSSULARIÆ, Maskell.—Maskell, N.Z. Trans., 1883, p. 123; Scale-Insects of N.Z., 1887, p. 59.

Hab. In New Zealand, on *Ribes grossularia*.

FIORINIA MINIMA, Maskell.—Maskell, N.Z. Trans., 1883, p. 122; Scale-Insects of N.Z., 1887, p. 59.

Hab. In New Zealand, on *Brachyglottis repanda* (Canterbury).

FIORINIA RUBRA, Maskell.—Maskell, N.Z. Trans., 1893, p. 71.

Hab. In Australia, on *Acacia* sp. (Western Australia).

FIORINIA STRICTA, Maskell.—Maskell, N.Z. Trans., 1883, p. 124; *ib.*, 1884, p. 24; *ib.*, 1894, p. 51; Scale-Insects of N.Z., 1887, p. 60.

Hab. In New Zealand, on *Dendrobium* sp., *Hedycarya* sp.; *Phormium tenax*, *Cordyline australis*, *Astelia cunninghamii*, *Muhlenbeckia* sp., *Hoheria angustifolia*, &c. (*passim*).

FIORINIA SYNCARPIÆ, Maskell.—Maskell, N.Z. Trans., 1892, p. 212.

Hab. In Australia, on *Syncarpia laurifolia* (New South Wales).

Genus *Ischnaspis*, Douglas.

This genus has hitherto been reported only from the West Indies, Demerara, and Mexico.

ISCHNASPIS FILIFORMIS, Douglas.—Douglas, Ent. Mo. Mag., 1887, p. 21. Maskell, N.Z. Trans., 1894, p. 52.

Hab. In Australia, on palms in greenhouses (South Australia).

Sub-family LECANINÆ.

Section LECANODIASPIDÆ, Maskell.

Genus *Lecanochiton*.

This genus has been reported only from New Zealand.

LECANOCHITON METROSIDERI, Maskell.—Maskell, N.Z. Trans., 1881, p. 222; *ib.*, 1883, p. 129; Scale-Insects of N.Z., 1887, p. 64.

Hab. In New Zealand, on *Metrosideros robusta*, *Metrosideros tomentosa* (Otago; Auckland).

LECANOCHITON MINOR, Maskell.—Maskell, N.Z. Trans., 1890, p. 12.

Hab. In New Zealand, on *Metrosideros robusta* (Reefton).

Genus **Ceroplastes**, Gray.

This genus has been reported from Europe, North and South America, India, Africa, and Australia.

CEROPLASTES AUSTRALASIE, Walker.—Walker, List of Homopt. in Brit. Mus., 1087. Signoret, Ann. de la Soc. Ent. de France, 1872, p. 45.

Hab. In Australia, on (?) (New South Wales).

CEROPLASTES CERIFERUS, Anderson.—Anderson, Monograph of *Coccus ceriferus*, 1791. Westwood, Gard. Chron., 1853, 484. Signoret, Ann. de la Soc. Ent. de France, 1872, p. 40. Maskell, N.Z. Trans., 1892, p. 216.

Hab. In Australia, on *Melaleuca hypericifolia*, *Myrica cerifera*, *Pteris* sp., &c. (New South Wales); in India, on *Celastrus* sp., &c.

CEROPLASTES RUBENS, Maskell.—Maskell, N.Z. Trans., 1892, p. 214.

Hab. In Australia, on *Mangifera indica*, *Ficus macrophylla* (Queensland).

Genus **Ctenochiton**, Maskell.

This genus, up to the present time, is confined to New Zealand and Australia.

CTENOCHITON DACRYDII, Maskell.—Maskell, N.Z. Trans., 1891, p. 18.

Hab. In New Zealand, on *Dacrydium cupressinum* (Reef-ton).

CTENOCHITON DEPRESSUS, Maskell.—Maskell, N.Z. Trans., 1883, p. 132; Scale-Insects of N.Z., 1887, p. 66.

Hab. In New Zealand, on *Plagianthus*, *Cyathea*, &c. (Hawke's Bay).

CTENOCHITON DEPRESSUS, Maskell, *forma minor*.—Maskell, N.Z. Trans., 1891, p. 19.

Hab. In New Zealand, on *Coprosma* sp. (Reefton).

CTENOCHITON ELÆOCARPI, Maskell.—Maskell, N.Z. Trans., 1884, p. 26; *ib.*, 1891, p. 17; Scale-Insects of N.Z., 1887, p. 67.

Hab. In New Zealand, on *Elæocarpus dentatus* (Wellington).

CTENOCHITON ELONGATUS, Maskell.—Maskell, N.Z. Trans., 1878, p. 212; Scale-Insects of N.Z., 1887, p. 68.

Hab. In New Zealand, on *Geniostoma ligustrifolium*, *Dendrobium* sp., *Earina* sp. (Auckland; Hawke's Bay; Wellington).

CTENOCHITON EUCALYPTI, Maskell.—Maskell, N.Z. Trans., 1894, p. 52.

Hab. In Australia, on *Eucalyptus siderophloia* (New South Wales).

CTENOCHITON FLAVUS, Maskell.—Maskell, N.Z. Trans., 1883, p. 130; *ib.*, 1884, p. 26; Scale-Insects of N.Z., 1887, p. 68.

Hab. In New Zealand, on *Brachyglottis repanda*, *Panax arboreum*, *Leptospermum scoparium*, *Elæocarpus dentatus* (Wellington).

CTENOCHITON FUSCUS, Maskell.—Maskell, N.Z. Trans., 1883, p. 131; Scale-Insects of N.Z., 1887, p. 70.

Hab. In New Zealand, on *Brachyglottis repanda*, *Panax arboreum* (Canterbury).

CTENOCHITON HYMENANTHERÆ, Maskell.—Maskell, N.Z. Trans., 1884, p. 25; Scale-Insects of N.Z., 1887, p. 71.

Hab. In New Zealand, on *Hymenanchera crassifolia* (Wellington).

CTENOCHITON PERFORATUS, Maskell.—Maskell, N.Z. Trans., 1878, p. 280; *ib.*, 1883, p. 130; Scale-Insects of N.Z., 1887, p. 72.

Hab. In New Zealand, on *Pittosporum eugenioide*, *Panax arboreum*, *Coprosma lucida*, *Rubus australis* (Wellington; Nelson; Canterbury; Otago).

CTENOCHITON PIPERIS, Maskell.—Maskell, N.Z. Trans., 1881, p. 218; *ib.*, 1884, p. 25; Scale-Insects of N.Z., 1887, p. 73.

Hab. in New Zealand, on *Piper excelsum* (Auckland; Hawke's Bay; Wellington).

CTENOCHITON RHIZOPHORÆ, Maskell.—Maskell, N.Z. Trans., 1894, p. 54.

Hab. In Australia, on *Rhizophora mangle* (Queensland).

CTENOCHITON VIRIDIS, Maskell.—Maskell, N.Z. Trans., 1878, p. 211; *ib.*, 1884, p. 24; Scale-Insects of N.Z., 1887, p. 74.

Hab. In New Zealand, on *Panax arboreum*, *Coprosma lucida*, *Hedycarya dentata*, *Atherosperma nova-zealandie*, *Rubus australis* (passim).

Genus *Inglisia*, Maskell.

This genus has only been reported from New Zealand, Australia, and Trinidad (West Indies).

INGLISIA FAGI, Maskell.—Maskell, N.Z. Trans., 1890, p. 13.

Hab. In New Zealand, on *Fagus*, var. sp. (Reefton).

INGLISIA FORAMINIFER, Maskell.—Maskell, N.Z. Trans., 1892, p. 213.

Hab. In Australia, on *Santalum acuminatum* (South Australia).

INGLISIA INCONSPICUA, Maskell.—Maskell, N.Z. Trans., 1891, p. 19.

Hab. In New Zealand, on *Corokia cotoneaster* (Reefton).

INGLISIA LEPTOSPERMI, Maskell.—Maskell, N.Z. Trans., 1881, p. 220; *ib.*, 1884, p. 27; Scale-Insects of N.Z., 1887, p. 75.

Hab. In New Zealand, on *Leptospermum scoparium* (*passim*).

INGLISIA ORNATA, Maskell.—Maskell, N.Z. Trans., 1884, p. 27; Scale-Insects of N.Z., 1887, p. 76.

Hab. In New Zealand, on *Elæocarpus dentatus*, *Leptospermum scoparium* (Wellington); males sometimes on *Coprosma*, *Pittosporum*, &c.

INGLISIA PATELLA, Maskell.—Maskell, N.Z. Trans., 1878, p. 213; *ib.*, 1881, p. 219; Scale-Insects of N.Z., p. 78.

Hab. In New Zealand, on *Coprosma lucida*, *Drimys colorata*, *Atherosperma novæ-zealandiæ* (Wellington; Canterbury).

Genus *Ceronema*, Maskell.

This genus is as yet reported only from Australia.

CERONEMA BANKSIÆ, Maskell.—Maskell, N.Z. Trans., 1894, p. 56.

Hab. In Australia, on *Banksia serrata* (New South Wales).

Section LECANIDÆ.

Genus *Lecanium*, Illiger.

This genus is cosmopolitan.

LECANIUM ACUMINATUM, Signoret.—Signoret, Ann. de la Soc. Ent. de France, 1873, p. 397. Maskell, N.Z. Trans., 1892, p. 219.

Hab. In Sandwich Islands, on *Psidium* sp.; in Europe, on hothouse orchids.

LECANIUM ALIENUM, Douglas.—Douglas, Ent. Mo. Mag., 1886, p. 77.

Hab. In Europe, on *Asplenium bulbiferum* (New Zealand fern).

LECANIUM ANTHURII, Boisduval.—Boisduval, Ent. Hort., 1867, 329. Signoret, Ann. de la Soc. Ent. de France, 1873, p. 435. Maskell, N.Z. Trans., 1892, p. 219.

Hab. In Australia, on *Asparagus* sp. (Victoria); in Europe, on hothouse epiphyte.

LECANIUM BACCATUM, Maskell.—Maskell, N.Z. Trans., 1891, p. 20; *ib.*, 1892, p. 217.

Hab. In Australia, on *Acacia armata* (South Australia), *Acacia calamifolia*, *Acacia longifolia* (Victoria).

LECANIUM CASSINIÆ, Maskell.—Maskell, N.Z. Trans., 1890, p. 15.

Hab. In New Zealand, on *Cassinia leptophylla* (Wellington).

LECANIUM FILICUM, Boisduval.—Boisduval, Ent. Hort., 1867, 336. Signoret, Ann. de la Soc. Ent. de France, 1873, p. 436. Maskell, N.Z. Trans., 1892, p. 220.

Hab. In Australia, on *Lomaria* (?) sp. (New South Wales); in Europe, on hothouse fern, *Pteris argirea*.

LECANIUM FRENCHII, Maskell.—Maskell, N.Z. Trans., 1890, p. 17.

Hab. In Australia, on *Banksia australis* (Victoria).

LECANIUM HEMISPHERICUM, Targioni-Tozzetti. — Targioni, Stud. sulle Coccineglie, 1867, p. 27. Signoret, Ann. de la Soc. Ent. de France, 1873, p. 436. Maskell, N.Z. Trans., 1884, p. 29; *ib.*, 1894, p. 59; Scale-Insects of N.Z., 1887, p. 80.

Hab. In New Zealand, on *Camellia japonica* (Wellington); in Europe, on *Dracæna australis*; in North America, on various greenhouse plants; in Australia, on hothouse plants (South Australia).

LECANIUM HESPERIDUM, Linnæus.—Linnæus, Syst. Nat., 1735, ii., 739. Signoret, Ann. de la Soc. Ent. de France, 1873, p. 399. Maskell, N.Z. Trans., 1878, p. 205; *ib.*, 1892, p. 218; Scale-Insects of N.Z., 1887, p. 80.

Hab. In New Zealand, on *Laurus*, *Ilex*, *Hedera*, *Citrus*, *Camellia*, *Myrtus*, *Buxus*, &c.; in Australia, on *Citrus*, *Laurus*, &c.

LECANIUM HIBERNACULORUM, Boisduval. — Boisduval, Ent. Hort., 1867, p. 337. Signoret, Ann. de la Soc. Ent. de France, 1873, p. 437. Maskell, N.Z. Trans., 1878, p. 207; Scale-Insects of N.Z., 1887, p. 81.

Hab. In New Zealand, on various greenhouse plants (Canterbury); in Europe, on hothouse plants.

LECANIUM LONGULUM, Douglas. *Lecanium chirimoliae*, Maskell.—Douglas, Ent. Mo. Mag., 1887, p. 97. Maskell, N.Z. Trans., 1889, p. 137; *ib.*, 1890, p. 16; *ib.*, 1892, p. 221.

Hab. In Fiji, on *Annona tripetala*; in Sandwich Islands, on *Psidium*, *Bambusa*, *Citrus*, *Acacia*, &c.; in Demerara, on *Annona muricata*, &c.

LECANIUM MACULATUM, Signoret.—Signoret, Ann. de la Soc. Ent. de France, 1873, p. 400. Maskell, N.Z. Trans., 1878, p. 207; Scale-Insects of N.Z., 1887, p. 81.

Hab. In New Zealand, on *Bavardia* (Canterbury); in Europe, on *Hedera*.

LECANIUM MORI, Signoret.—Signoret, Ann. de la Soc. Ent. de France, 1873, p. 407. Maskell, N.Z. Trans., 1884, p. 29; *ib.*, 1893, p. 75; Scale-Insects of N.Z., 1887, p. 82.

Hab. In New Zealand, on *Alsophila colensoi*, *Nephrolepis cordifolia*, *Asplenium flaccidum*, &c.; in Europe, on *Morus albus*.

LECANIUM NIGRUM, Nietner, var. *depressum*, Targioni-Tozzetti.—Nietner, "Enemies of the Coffee-tree," 1861. Targioni, Stud. sulle Coccineglie, 1867, p. 29. Signoret, Ann. de la Soc. Ent. de France, 1873, p. 439. Douglas, Ent. Mo. Mag., 1887, p. 27. Maskell, N.Z. Trans., 1878, p. 206; *ib.*, 1892, p. 220; *ib.*, 1893, p. 73; Scale-Insects of N.Z., 1887, p. 79.

Hab. In New Zealand, on various greenhouse plants; in Australia, on *Hakea* sp., and on "unnamed plant," and on "cultivated vine" (New South Wales); in Sandwich Islands, on *Psidium* sp., *Bambusa* sp.

LECANIUM OLEÆ, Bernard.—Bernard, Mem. d'Hist. Nat. Acad., 1872, p. 108. Signoret, Ann. de la Soc. Ent. de France, 1873, p. 440. Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 336. Maskell, N.Z. Trans., 1884, p. 28; Scale-Insects of N.Z., 1887, p. 82.

Hab. In New Zealand, on *Camellia japonica*, and on "native trees" (Wellington; Hawke's Bay; Auckland); in Sandwich Islands, on *Citrus*, *Psidium*, &c.; in North America, on *Citrus*, *Olea*, &c.; in Europe, on *Olea*.

LECANIUM PATERSONIÆ, Maskell.—Maskell, N.Z. Trans., 1894, p. 57.

Hab. In Australia, on *Patersonia glabrata* (New South Wales).

LECANIUM PINGUE, Maskell.—Maskell, N.Z. Trans., 1894, p. 58.

Hab. In Australia, on *Dillwynia juniperina* (New South Wales).

LECANIUM RIBIS, Fitch.—Fitch, Trans. New York Agric. Soc., 1856. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 624. Maskell, N.Z. Trans., 1890, p. 16; *ib.*, 1891, p. 22.

Hab. In New Zealand, on *Ribes* sp. (gooseberries and currants); in North America, on the same.

LECANIUM ROSARUM, Snellen van Vollenhoven.—Snellen van Vollenhoven, Tijdschrift voor Ent. v., 94. Signoret, Ann. de la Soc. Ent. de France, 1873, p. 427. Maskell, N.Z. Trans., 1891, p. 22.

Hab. In Australia, on *Ribes grossularia* (gooseberry), and on *Rosa*; in Europe, on *Rosa*; perhaps in New Zealand, on *Vitis*.

LECANIUM SCROBICULATUM, Maskell.—Maskell, N.Z. Trans., 1892, p. 221; *ib.*, 1894, p. 58.

Hab. In Australia, on *Acacia* sp. (New South Wales).

LECANIUM TESSELLATUM, Signoret.—Signoret, Ann. de la Soc. Ent. de France, 1873, p. 401. Maskell, N.Z. Trans., 1892, p. 219; *ib.*, 1894, p. 59.

Hab. In Australia, on *Laurus nobilis* (New South Wales); in Europe, on palms in hothouses; in South Australia, on palms.

LECANIUM (?) sp., Maskell.—Maskell, N.Z. Trans., 1893, p. 72.

Hab. In Australia, on *Casuarina* sp. (New South Wales).

NOTE.—The following have been omitted from the foregoing list, as nobody seems to know anything about them or their food-plants, beyond the original names: LECANIUM AUSTRALE, Walker (Tasmania); LECANIUM ORBICULARE, Targioni-Tozzetti (Australia); LECANIUM VIRGATUM, Targioni-Tozzetti (Australia).

Genus *Lecanopsis*, Targioni-Tozzetti.

LECANOPSIS FILICUM, Maskell.—Maskell, Proc. of Linn. Soc. New South Wales, 1893, p. 225.

Hab. In Australia, on *Doodia aspera*, underground (New South Wales).

Genus *Pulvinaria*, Targioni-Tozzetti.

This genus has been reported from Europe, North America, West Indies, Australia, India, New Zealand, and Sandwich Islands.

PULVINARIA CAMELLICOLA, Signoret.—Signoret, Ann. de la Soc. Ent. de France, 1872, p. 208. Maskell, N.Z. Trans., 1878, p. 207.

Hab. In New Zealand, on *Camellia japonica*; in Europe, on the same.

PULVINARIA DODONÆÆ, Maskell.—Maskell, N.Z. Trans., 1892, p. 222.

Hab. In Australia, on *Dodonæa bursarifolia* and on *Myoporum* sp. (South Australia).

PULVINARIA FLAVICANS, Maskell.—Maskell, Trans. Roy. Soc. South Australia, 1887-88, p. 103.

Hab. In Australia, on (?) (South Australia).

PULVINARIA MAMMEÆ, Maskell.—Maskell, N.Z. Trans., 1894, p. 59.

Hab. In Sandwich Islands, on *Mammea americana*.

PULVINARIA MASKELLI, Olliff. *Signoretia atriplicis*, Maskell.—Olliff, Agric. Gaz. New South Wales, 1891, p. 667; *ib.*, 1892, p. 176. Maskell, N.Z. Trans., 1891, p. 23; *ib.*, 1893, p. 76.

Hab. In Australia, on *Atriplex nummularia*, *Rhagodia hastata* (New South Wales).

PULVINARIA MASKELLI, Olliff, var. *spinosior*, Maskell.—Maskell, N.Z. Trans., 1893, p. 78.

Hab. In Australia, on *Frenela (Callitris) robusta* (South Australia).

PULVINARIA PSIDII, Maskell.—Maskell, N.Z. Trans., 1892, p. 223.

Hab. In Sandwich Islands, on *Psidium cattleyanum*.

PULVINARIA TECTA, Maskell.—Maskell, N.Z. Trans., 1893, p. 79.

Hab. In Australia, on *Citrus*, *Acacia* sp., *Daviesia corymbosa* (Victoria; New South Wales).

Section LECANOCOCCIDÆ, Maskell.

Genus *Signoretia*, Targioni-Tozzetti.

This genus has been reported only from Europe and Australia.

SIGNORETIA LUZULÆ, Dufour, var. *australis*, Maskell.—Maskell, N.Z. Trans., 1892, p. 223; *ib.*, 1893, p. 80.

Hab. In Australia, on grass (New South Wales).

Genus *Eriochiton*, Maskell.

This genus has only been reported from New Zealand and India.

ERIOCHITON HISPIDUS, Maskell.—Maskell, N.Z. Trans., 1886, p. 47; *Scale-Insects of N.Z.*, 1887, p. 84.

Hab. In New Zealand, on *Olearia haastii* (Southern Alps).

ERIOCHITON SPINOSUS, Maskell. *Ctenochiton spinosus*, Maskell.—Maskell, N.Z. Trans., 1878, p. 212; *ib.*, 1879, p. 292; *ib.*, 1881, p. 218; *ib.*, 1884, p. 25; *Scale-Insects of N.Z.*, 1887, p. 86.

Hab. In New Zealand, on *Atherosperma novæ-zealandiæ*,

Melicope ternata, *Elæocarpus dentatus*, *Muhlenbeckia adspersa*
(Wellington ; Canterbury).

Sub-family HEMICOCCINÆ, Maskell.

Section KERMITIDÆ, Maskell.

Genus **Kermes**, auctorum.

This genus has been reported from Europe, North America, Algeria, and Australia.

KERMES ACACIÆ, Maskell.—Maskell, N.Z. Trans., 1893, p. 83.

Hab. In Australia, on *Acacia* sp. (New South Wales).

Sub-family COCCINÆ.

Section ACANTHOCOCCIDÆ.

Genus **Solenophora**, Maskell.

This genus has only been reported from New Zealand.

SOLENOPHORA COROKIÆ, Maskell.—Maskell, N.Z. Trans., 1889,
p. 141; *ib.*, 1890, p. 18.

Hab. In New Zealand, on *Corokia cotoneaster* (Reefton).

SOLENOPHORA FAGI, Maskell.—Maskell, N.Z. Trans., 1889,
p. 139.

Hab. In New Zealand, on *Fagus*, var. sp. (Inangahua).

Genus **Prosopophora**, Douglas.

This genus has been reported only from North America, Demerara, and Australia.

PROSOPOPHORA ACACIÆ, Maskell.—Maskell, N.Z. Trans., 1892,
p. 225.

Hab. In Australia, on *Acacia calamifolia* (South Australia).

PROSOPOPHORA EUCALYPTI, Maskell.—Maskell, N.Z. Trans.,
1892, p. 226.

Hab. In Australia, on *Eucalyptus* sp. (New South Wales).

Genus **Planchonia**, Signoret.

This genus appears to be nearly cosmopolitan.

PLANCHONIA BRYOIDES, Maskell.—Maskell, N.Z. Trans., 1893,
p. 84.

Hab. In Fiji, on (?).

PLANCHONIA EPACRIDIS, Maskell.—Maskell, N.Z. Trans., 1881,
p. 224; *Scale-Insects of N.Z.*, 1887, p. 91.

Hab. In New Zealand, on *Leucopogon fraseri* (Canterbury).

PLANCHONIA FIMBRIATA, Boyer de Fonscolombe.—Boyer de Fonscolombe, Ann. de la Soc. Ent. de France, 1834, p. 209; Signoret, Ann. de la Soc. Ent. de France, 1868, p. 283; Maskell, N.Z. Trans., 1893, p. 85; ib., 1894, pp. 61, 62.

Hab. In Australia, on *Leptospermum flavescens* (Queensland).

PLANCHONIA STYPHELLÆ, Maskell.—Maskell, N.Z. Trans., 1891, p. 24; ib., 1893, p. 85; ib., 1894, p. 62.

Hab. In Australia, on *Styphelia richiei*, *Leptospermum juniperinum* (Victoria); in Tasmania, on *Melaleuca* sp.

PLANCHONIA VENTRUOSA, Maskell.—Maskell, N.Z. Trans., 1894, p. 63.

Hab. In Australia, on *Acacia* sp. (New South Wales; South Australia).

Genus *Rhizococcus*, Signoret.

This genus has been reported from Europe, North America, Australia, and New Zealand.

RHIZOCOCCUS CASUARINÆ, Maskell.—Maskell, N.Z. Trans., 1892, p. 230.

Hab. In Australia, on *Casuarina suberosa* (Victoria).

RHIZOCOCCUS CELMISIÆ, Maskell.—Maskell, N.Z. Trans., 1883, p. 135; Scale-Insects of N.Z., 1887, p. 96.

Hab. In New Zealand, on *Celmisia* sp. (Southern Alps).

RHIZOCOCCUS FOSSOR, Maskell.—Maskell, N.Z. Trans., 1883, p. 136; Scale-Insects of N.Z., p. 97.

Hab. In New Zealand, on *Santalum cunninghamii* (Hawke's Bay).

RHIZOCOCCUS GRANDIS, Maskell.—Maskell, N.Z. Trans., 1891, p. 29.

Hab. In Australia, on *Acacia longifolia* (Victoria).

RHIZOCOCCUS GRANDIS, Maskell, var. *spiniosior*, Maskell.—Maskell, N.Z. Trans., 1892, p. 230.

Hab. In Australia, on *Acacia implexa* (Victoria).

RHIZOCOCCUS INTERMEDIUS, Maskell.—Maskell, N.Z. Trans., 1890, p. 19.

Hab. In New Zealand, on *Fagus menziesii* (Reefton).

RHIZOCOCCUS MACULATUS, Maskell.—Maskell, N.Z. Trans., 1889, p. 144.

Hab. In New Zealand, on *Fagus cliffortioides* (Reefton).

RHIZOCOCCUS PULCHELLUS, Maskell.—N.Z. Trans., 1889, p. 143.

Hab. In New Zealand, on *Fagus fusca*, *Fagus menziesii*, *Fagus cliffortioides* (Wellington; Marlborough; Reefton).

RHIZOCOCCUS PUSTULATUS, Maskell.—Maskell, N.Z. Trans., 1892, p. 231.

Hab. In Australia, on *Casuarina* sp. (Victoria).

RHIZOCOCCUS TOTARÆ, Maskell.—Maskell, N.Z. Trans., 1889, p. 142; *ib.*, 1890, p. 19.

Hab. In New Zealand, on *Podocarpus totara*, *Fagus menziesii* (Reefton).

Genus **Gossyparia**, Signoret.

This genus has been reported from Europe, Arabia, North America, Australia, and New Zealand.

GOSSYPARIA CASUARINÆ, Maskell.—Maskell, N.Z. Trans., 1892, p. 227.

Hab. In Australia, on *Casuarina* sp. (New South Wales).

GOSSYPARIA CAVELLII, Maskell.—Maskell, N.Z. Trans., 1889, p. 147.

Hab. In New Zealand, on *Fagus menziesii* (Wellington; Reefton).

GOSSYPARIA CONFLUENS, Maskell.—Maskell, N.Z. Trans., 1892, p. 227.

Hab. In Australia, on *Eucalyptus* sp. (New South Wales).

Genus **Eriococcus**, Targioni-Tozzetti.

This genus has been reported from Europe, North America, Australia, and New Zealand.

ERIOCOCCUS ARAUCARIÆ, Maskell.—Maskell, N.Z. Trans., 1878, p. 218; *ib.*, 1883, p. 134; Scale-Insects of N.Z., p. 93. Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 339 (sub nomine *Rhizococcus*).

Hab. In New Zealand, on *Araucaria excelsa* (Canterbury); in North America, on the same.

ERIOCOCCUS ARAUCARIÆ, Maskell, var. *minor*, Maskell.—Maskell, N.Z. Trans., 1894, p. 64.

Hab. In Australia, on *Kunzea* sp. (New South Wales).

ERIOCOCCUS BUXI, Boyer de Fonscolombe, var. *australis*, Maskell.—Boyer de Fonscolombe, Ann. de la Soc. Ent. de France, 1834, p. 218. Signoret, Ann. de la Soc. Ent. de France, 1874, p. 30. Maskell, N.Z. Trans., 1894, p. 65.

Hab. In Australia, on (?) (Botanic Gardens, Brisbane).

ERIOCOCCUS CONFUSUS, Maskell.—Maskell, N.Z. Trans., 1891, p. 26.

Hab. In Australia, on *Eucalyptus viminalis* (Victoria).

ERIOCOCCUS CONSPERSUS, Maskell.—Maskell, N.Z. Trans., 1892, p. 229.

Hab. In Australia, on *Casuarina* sp. (New South Wales).

ERIOCOCCUS CORIACEUS, Maskell.—Maskell, N.Z. Trans., 1892, p. 229.

Hab. In Australia, on *Eucalyptus* sp. (New South Wales).

ERIOCOCCUS DANTHONIÆ, Maskell.—Maskell, N.Z. Trans., 1890, p. 21.

Hab. In New Zealand, on *Danthonia cunninghamii* (Reefton).

ERIOCOCCUS EUCALYPTI, Maskell.—Maskell, N.Z. Trans., 1891, p. 27.

Hab. In Australia, on *Eucalyptus diversicolor*, *Bursaria spinosa* (South Australia; Victoria).

ERIOCOCCUS FAGICORTICIS, Maskell.—Maskell, N.Z. Trans., 1891, p. 27.

Hab. In New Zealand, on *Fagus fusca* (Reefton).

ERIOCOCCUS HOHERIÆ, Maskell.—Maskell, N.Z. Trans., 1879, p. 298; *ib.*, 1890, p. 20; *ib.*, 1891, p. 26; Scale-Insects of N.Z., 1887, p. 93.

Hab. In New Zealand, on *Hoheria angustifolia* (Canterbury).

ERIOCOCCUS LEPTOSPERMI, Maskell.—Maskell, N.Z. Trans., 1890, p. 22.

Hab. In Australia, on *Leptospermum lævigatum* (Victoria).

ERIOCOCCUS MULTISPINUS, Maskell. *Acanthococcus multispinus*, Maskell.—Maskell, N.Z. Trans., 1878, p. 217; *ib.*, 1879, p. 292; *ib.*, 1884, p. 29; Scale-Insects of N.Z., 1887, p. 94.

Hab. In New Zealand, on *Rubus australis*, *Knightia excelsa*, *Cyathodes acerosa* (Canterbury; Wellington).

ERIOCOCCUS MULTISPINUS, Maskell, var. *lævigatus*, Maskell.—Maskell, N.Z. Trans., 1890, p. 20.

Hab. In Australia, on *Acacia armata* (Victoria).

ERIOCOCCUS PALLIDUS, Maskell.—Maskell, N.Z. Trans., 1884, p. 29; *ib.*, 1890, p. 21; Scale-Insects of N.Z., 1887, p. 95.

Hab. In New Zealand, on *Myoporum lætum*, *Elæocarpus dentatus*, *Fagus menziesii*, *Atherosperma novæ-zealandiæ* (*passim*).

ERIOCOCCUS PARADOXUS, Maskell.—Maskell, Trans. Roy. Soc. South Australia, 1887–88, p. 104.

Hab. In Australia, on *Pittosporum undulatum* (South Australia).

ERIOCOCCUS PHYLLOCLADI, Maskell.—Maskell, N.Z. Trans., 1891, p. 25.

Hab. In New Zealand, on *Phyllocladus trichomanoides* (Reefton).

ERIOCOCCUS RAITHBYI, Maskell.—Maskell, N.Z. Trans., 1889, p. 145.

Hab. In New Zealand, on *Fagus menziesii* (Reefton).

ERIOCOCCUS TEPPERI, Maskell.—Maskell, N.Z. Trans., 1891, p. 29.

Hab. In Australia, on *Eucalyptus globulus*, *Bursaria spinosa* (South Australia; Tasmania).

ERIOCOCCUS TURGIPES, Maskell.—Maskell, N.Z. Trans., 1892, p. 228.

Hab. In Australia, on *Casuarina* sp. (New South Wales).

Section **DACTYLOPIDÆ**, Maskell.

Genus **Coccus**, auctorum.

This genus has been reported from Mexico and (where cultivated as cochineal) Spain, Algiers, &c.; also from Australia.

COCCUS BLANCHARDII, Targioni-Tozzetti. — Targioni-Tozzetti, Catal., 1868, p. 32.

Hab. In Australia, on (?).

Genus **Ripersia**, Signoret.

This genus has been reported from Europe, Australia, and New Zealand.

RIPERSIA FAGI, Maskell.—Maskell, N.Z. Trans., 1890, p. 24.

Hab. In New Zealand, on *Fagus menziesii* (Reefton).

RIPERSIA FORMICICOLA, Maskell.—Maskell, N.Z. Trans., 1891, p. 38.

Hab. In New Zealand, in ants' nests, subterranean (Canterbury).

RIPERSIA LEPTOSPERMI, Maskell.—Maskell, Trans., Roy. Soc., South Australia, 1887–88, p. 106.

Hab. In Australia, on *Leptospermum lævigatum* (South Australia).

RIPERSIA RUMICIS, Maskell. — Maskell, N.Z. Trans., 1891, p. 37.

Hab. In New Zealand, on *Rumex acetosella*, subterranean (Reefton).

Genus **Dactylopius**, Costa.

This genus is cosmopolitan.

DACTYLOPIUS ACACIÆ, Maskell.—Maskell, N.Z. Trans., 1891, p. 33.

Hab. In Australia, on *Acacia linearis*, *Acacia lophantha* (Victoria).

DACTYLOPIUS ADONIDUM, Linnæus. *Coccus adonidum*, Linnæus, Syst. Nat., 1767, p. 740. *Dactylopius adonidum*, Targioni-Tozzetti, Catal., 1868, p. 32.—Signoret, Ann. de la Soc. Ent. de France, 1874, p. 306. Comstock, Ent. Rep. U.S. Dept. Agric., 1880, p. 341. Maskell, N.Z. Trans., 1889, p. 150.

Hab. In Australia and New Zealand, in greenhouses (passim).

DACTYLOPIUS AFFINIS, Maskell.—Maskell, N.Z. Trans., 1893, p. 90.

Hab. In Australia, on tubers of dahlia and potato, underground (New South Wales).

DACTYLOPIUS ALBIZZIÆ, Maskell.—Maskell, N.Z. Trans., 1891, p. 31.

Hab. In Australia, on *Albizzia lophantha* (Victoria; the tree is West Australian).

DACTYLOPIUS ALPINUS, Maskell.—Maskell, N.Z. Trans., 1883, p. 138; Scale-Insects of N.Z., 1887, p. 99.

Hab. In New Zealand, on *Veronica* sp. (Southern Alps).

DACTYLOPIUS ARECÆ, Maskell.—Maskell, N.Z. Trans., 1889, p. 150; *ib.*, 1892, p. 231.

Hab. In New Zealand, on roots of *Areca sapida*, *Ribes grossularia*, various *Gramineæ*, &c., underground (Wellington; Canterbury).

DACTYLOPIUS AURILANATUS, Maskell.—Maskell, N.Z. Trans., 1889, p. 151.

Hab. In New Zealand, on *Araucaria bidwillii*, *Araucaria excelsa* (Auckland).

DACTYLOPIUS CALCEOLARIÆ, Maskell.—Maskell, N.Z. Trans., 1878, p. 218; *ib.*, 1883, p. 138; *ib.*, 1889, p. 149; *ib.*, 1893, p. 89; Scale-Insects of N.Z., 1887, p. 100.

Hab. In New Zealand, on *Calceolaria* sp., *Cordyline australis*, *Danthonia cunninghamii*, *Phormium tenax* (Hawke's

Bay; Canterbury; Stewart Island); in Fiji, on *Saccharum officinarum* (sugar-cane).

DACTYLOPIUS COCOTIS, Maskell.—Maskell, N.Z. Trans., 1889, p. 149; *ib.*, 1891, p. 34.

Hab. In Fiji, on *Cocos nucifera*; in Laccadive Islands, on the same.

DACTYLOPIUS ERICICOLA, Maskell.—Maskell, N.Z. Trans., 1892, p. 232.

Hab. In Australia, on *Erica autumnalis* (Victoria); the plant is from the Cape of Good Hope).

DACTYLOPIUS EUCALYPTI, Maskell.—Maskell, N.Z. Trans., 1891, p. 35; *ib.*, 1892, p. 233; *ib.*, 1893, p. 90; *ib.*, 1894, p. 65.

Hab. In Australia, on *Eucalyptus rostrata*, *Eucalyptus robusta* (South Australia; New South Wales).

DACTYLOPIUS GLAUCUS, Maskell.—Maskell, N.Z. Trans., 1878, p. 219; *ib.*, 1884, p. 30; Scale-Insects of N.Z., 1887, p. 100.

Hab. In New Zealand, on *Panax arboreum*, *Rubus australis*, *Coprosma* var. sp., *Pittosporum eugenioide*, *Piper excelsum*, &c. (*passim*).

DACTYLOPIUS GLOBOSUS, Maskell.—Maskell, N.Z. Trans., 1891, p. 34.

Hab. In Australia, on *Acacia armata*, *Acacia decurrens* (South Australia; Victoria).

DACTYLOPIUS HERBICOLA, Maskell.—Maskell, Agric. Gaz., New South Wales, 1891, p. 352; N.Z. Trans., 1891, p. 36.

Hab. In Australia, on *Aristida vagans* (New South Wales).

DACTYLOPIUS HIBBERTIÆ, Maskell.—Maskell, N.Z. Trans., 1891, p. 32.

Hab. In Australia, on *Hibbertia virgata*, *Hibbertia linearis* (South Australia; Victoria).

DACTYLOPIUS ICERYOIDES, Maskell.—Maskell, N.Z. Trans., 1891, p. 33.

Hab. In New Zealand, on *Fagus fusca* (Reefton).

DACTYLOPIUS LILIACEARUM, Bouché.—Bouché, Ent. Zeit. Stett., 1844, 293. Signoret, Ann. de la Soc. Ent. de France, 1874, p. 319.

Hab. In Europe, on Australian *Liliaceæ*, *Crinum* sp.

DACTYLOPIUS LOBULATUS, Maskell.—Maskell, N.Z. Trans., 1893, p. 91.

Hab. In Australia, on *Eucalyptus globulus* (Victoria; the tree is Tasmanian).

DACTYLOPIUS OBTECTUS, Maskell.—Maskell, N.Z. Trans., 1889, p. 152.

Hab. In New Zealand, on *Fagus fusca* (Reefton).

DACTYLOPIUS POÆ, Maskell.—Maskell, N.Z. Trans., 1878, p. 220; *ib.*, 1889, p. 150; *ib.*, 1890, p. 23; *ib.*, 1893, p. 89; Scale-Insects of N.Z., 1887, p. 101.

Hab. In New Zealand, on roots of grass or trees, underground or just above surface (*passim*).

DACTYLOPIUS VASTATOR, Maskell.—Maskell, N.Z. Trans., 1894, p. 65.

Hab. In Sandwich Islands, on *Citrus* and many other trees (perhaps originally Japan).

DACTYLOPIUS ZAMIÆ, Lucas.—Lucas, Ann. de la Soc. Ent. de France, 1855, p. 107. Signoret, Ann. de la Soc. Ent. de France, 1874, p. 328.

Hab. In Australia, on *Zamia* (*Encephalartos*) *spiralis*.

Genus *Pseudococcus*, Westwood.

This genus has been reported from Europe, North America, Australia, and New Zealand.

PSEUDOCOCCUS ASTELIÆ, Maskell.—Maskell, N.Z. Trans., 1883, p. 139; Scale-Insects of N.Z., 1887, p. 102.

Hab. In New Zealand, on *Astelia* sp. (Hawke's Bay).

PSEUDOCOCCUS CASUARINÆ, Maskell.—Maskell, N.Z. Trans., 1892, p. 235.

Hab. In Australia, on *Casuarina* sp. (Victoria).

PSEUDOCOCCUS NIVALIS, Maskell.—Maskell, N.Z. Trans., 1892, p. 234.

Hab. In Australia, on *Acacia* sp. (New South Wales).

Section IDIOCOCIDÆ, Maskell.

Genus *Sphærococcus*, Maskell.

This genus has been reported only from Australia and the Sandwich Islands.

SPHÆROCOCCUS ACACIÆ, Maskell.—Maskell, N.Z. Trans., 1892, p. 237.

Hab. In Australia, on *Acacia* sp. (New South Wales).

SPHÆROCOCCUS BAMBUSÆ, Maskell.—Maskell, N.Z. Trans., 1892, p. 237.

Hab. In Sandwich Islands, on *Bambusa* sp.

SPHÆROCOCCUS CASUARINÆ, Maskell.—Maskell, N.Z. Trans., 1891, p. 39.

Hab. In Australia, on *Casuarina quadrivalvis* (Victoria).

SPHÆROCOCCLUS ELEVANS, Maskell.—Maskell, N.Z. Trans., 1894, p. 68.

Hab. In Australia, on *Eucalyptus dumosa* (Victoria).

SPHÆROCOCCLUS FROGGATTI, Maskell.—Maskell, N.Z. Trans., 1893, p. 94.

Hab. In Australia, on *Melaleuca linariifolia* (New South Wales).

SPHÆROCOCCLUS INFLATIPES, Maskell.—Maskell, N.Z. Trans., 1892, p. 238.

Hab. In Australia, on *Eucalyptus* sp. (Victoria).

SPHÆROCOCCLUS LEPTOSPERMI, Maskell.—Maskell, N.Z. Trans., 1893, p. 92; *ib.*, 1894, p. 68.

Hab. In Australia, on *Leptospermum lævigatum* (New South Wales).

SPHÆROCOCCLUS MELALEUCÆ, Maskell.—Maskell, N.Z. Trans., 1893, p. 94.

Hab. In Australia, on *Melaleuca linariifolia* (New South Wales).

SPHÆROCOCCLUS PIROGALLIS, Maskell.—Maskell, N.Z. Trans., 1893, p. 95.

Hab. In Australia, on *Leptospermum flavescens* (New South Wales).

SPHÆROCOCCLUS STYPHELIÆ, Maskell.—Maskell, N.Z. Trans., 1894, p. 67.

Hab. In Australia, on *Styphelia (Monotoca) elliptica* (New South Wales).

Genus *Cylindrococcus*, Maskell.

This genus has been reported only from Australia.

CYLINDROCOCCLUS AMPLIOR, Maskell.—Maskell, N.Z. Trans., 1891, p. 44; *ib.*, 1892, p. 240.

Hab. In Australia, on *Casuarina quadrivalvis* (South Australia).

CYLINDROCOCCLUS CASUARINÆ, Maskell.—Maskell, N.Z. Trans., 1891, p. 41.

Hab. In Australia, on *Casuarina quadrivalvis* (Victoria).

CYLINDROCOCCLUS SPINIFERUS, Maskell.—Maskell, N.Z. Trans., 1891, p. 43.

Hab. In Australia, on *Casuarina quadrivalvis* (Victoria; South Australia).

Genus **Aspisarcus**, Newport.

This genus has only been reported from Australia.

ASPISARCUS EUCALYPTI, Newport. — Walker, "Catalogue of Homoptera," 1852, 1088.

Hab. In Australia, on *Eucalyptus*.

Nothing more is known of this genus and species, and even the group to which it may belong is unknown. It is placed here merely provisionally, and in all likelihood it will turn out to be a *Psyllid*.

Sub-family **MONOPHLEBINÆ**, Signoret.Genus **Monophlebus**, Leach.

This genus has been reported from Africa, East Indies, and Australia.

MONOPHLEBUS CRAWFORDI, Maskell. — Maskell, Trans. Roy. Soc. South Australia, 1887-88, p. 108; N.Z. Trans., 1890, p. 28; *ib.*, 1891, p. 51; *ib.*, 1892, p. 243; *ib.*, 1893, p. 102.

Hab. In Australia, on *Eucalyptus*, var. sp. (South Australia; Victoria; New South Wales; Queensland).

MONOPHLEBUS CRAWFORDI, Maskell, var. *levis*, Maskell. — Maskell, N.Z. Trans., 1892, p. 244; *ib.*, 1893, p. 102.

Hab. In Australia, on *Eucalyptus*, var. sp. (South Australia; Victoria; New South Wales).

MONOPHLEBUS CRAWFORDI, Maskell, var. *pilosior*, Maskell. — Maskell, N.Z. Trans., 1892, p. 244; *ib.*, 1893, p. 102.

Hab. In Australia, on *Eucalyptus*, var. sp. (South Australia; Victoria; New South Wales).

MONOPHLEBUS FUSCUS, Maskell. — Maskell, N.Z. Trans., 1892, p. 244.

Hab. In Australia, on *Eucalyptus*, var. sp. (New South Wales).

MONOPHLEBUS ILLIGERI, Westwood. — Westwood, Arcana Ent. I., 22, 3. Signoret, Ann. de la Soc. Ent. de France, 1875, p. 365.

Hab. In Tasmania, on (?).

Genus **Callipappus**, Guérin.

This genus has only been reported from Australia.

CALLIPAPPUS WESTWOODII, Guérin. — Guérin, Revue Zoolog., 1841, p. 129. Westwood, Introd. to Mod. Class. of Insects, 1840, p. 450.

Hab. In Australia, on (?).

Genus *Tessarobelus*, Montrouzier.

This genus has only been reported from New Caledonia.

TESSAROBELUS GUERINII, Montrouzier.—Montrouzier, Ann. de la Soc. Linn. de Lyon, 1864, p. 246. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 600.

Hab. In New Caledonia, on *Melaleuca* sp., *Filices*, var. sp.

Genus *Leachia*, Signoret.

This genus has been reported from Europe, Brazil, and New Zealand.

LEACHIA ZEALANDICA, Maskell.—Maskell, N.Z. Trans., 1890, p. 26.

Hab. In New Zealand, on *Podocarpus totara*, *Fagus* var. sp., *Cupressus dacrydioides*, &c. (Reefton).

Genus *Cœlostoma*, Maskell.

This genus has only been reported from Australia and New Zealand.

CŒLOSTOMA ASSIMILE, Maskell.—Maskell, N.Z. Trans., 1889, p. 153; *ib.*, 1890, p. 30.

Hab. In New Zealand, on *Fagus* sp. (Reefton).

CŒLOSTOMA AUSTRALE, Maskell.—Maskell, Proc. Linn. Soc. New South Wales, 1890, p. 280; N.Z. Trans., 1892, p. 242; *ib.*, 1894, p. 69.

Hab. In Australia, on *Angophora* sp., *Eucalyptus* sp. (New South Wales).

CŒLOSTOMA COMPRESSUM, Maskell.—Maskell, N.Z. Trans., 1891, p. 45.

Hab. In New Zealand, on *Podocarpus totara* (Reefton).

CŒLOSTOMA IMMANE, Maskell.—Maskell, N.Z. Trans., 1891, p. 49; *ib.*, 1892, p. 241; *ib.*, 1894, p. 69.

Hab. In Australia, on *Acacia aneura* (South Australia; New South Wales).

CŒLOSTOMA PILOSUM, Maskell.—Maskell, N.Z. Trans., 1890, p. 29; *ib.*, 1891, p. 49.

Hab. In New Zealand, on *Podocarpus totara*, *Fagus* var. sp., &c. (Reefton).

CŒLOSTOMA RUBIGINOSUM, Maskell.—Maskell, N.Z. Trans., 1892, p. 242.

Hab. In Australia, on *Banksia integrifolia* (Victoria).

CÆLOSTOMA WAIROENSE, Maskell.—Maskell, N.Z. Trans., 1883, p. 141; Scale-Insects of N.Z., 1887, p. 109.

Hab. In New Zealand, on *Phormium tenax*, *Leptospermum scoparium* (Northern Wairoa).

CÆLOSTOMA ZEALANDICUM, Maskell.—Maskell, N.Z. Trans., 1879, p. 294; *ib.*, 1881, p. 226; *ib.*, 1883, p. 141; Scale-Insects of N.Z., 1887, p. 107.

Hab. In New Zealand, on *Muhlenbeckia adspersa*, *Rhipogonum scandens*, and many forest-trees (*passim*).

Genus *Icerya*, Signoret.

This genus has been reported from Mauritius, North America, India, Australia, Egypt, New Zealand, Sandwich Islands.

ICERYA ÆGYPTIACA, Douglas.—Douglas, Ent. Mo. Mag., 1890, p. 79. Riley and Howard, "Insect Life," 1890 (November), p. 97. Maskell, N.Z. Trans., 1893, p. 99.

Hab. In Australia, on *Goodenia ovata* (New South Wales); in Egypt, on *Ficus* sp.

ICERYA KOEBELEI, Maskell.—Maskell, N.Z. Trans., 1892, p. 245; *ib.*, 1894, p. 69.

Hab. In Australia, on *Leptospermum lævigatum* (New South Wales; Queensland).

ICERYA PURCHASI, Maskell.—Maskell, N.Z. Trans., 1878, p. 221; *ib.*, 1883, p. 140; *ib.*, 1884, p. 30; *ib.*, 1886, p. 45; Scale-Insects of N.Z., 1887, p. 104. Riley and Howard, "Insect Life" (*passim*).

Hab. In New Zealand, Australia, Sandwich Islands, South Pacific Islands, North America, &c., &c., on almost every plant (*passim*).

ICERYA ROSÆ, Riley and Howard, var. *australis*, Maskell.—Riley and Howard, "Insect Life," November, 1890, p. 93. Maskell, N.Z. Trans., 1893, p. 101.

Hab. In Australia, on *Hakea gibbosa* (New South Wales).

Genus *Margarodes*, Guilding.

This genus has been reported from Mexico, Chili, and the West Indies. It is the "ground pearl of the Antilles."

MARGARODES sp. (?), Trimen.

Hab. In Australia, underground (?) (North Australia). A doubtful insect. All that I know about it is that a specimen is in the British Museum labelled as above. But it may be of some other genus.

Sub-family BRACHYSCELINÆ.

Genus **Frenchia**, Maskell.

This genus has only been reported from Australia.

FRENCHIA CASUARINÆ, Maskell.—Maskell, N.Z. Trans., 1891, p. 57.

Hab. In Australia, on *Casuarina equisetifolia*, *Casuarina quadrivalvis* (Victoria).

FRENCHIA SEMIOCCULTA, Maskell.—Maskell, N.Z. Trans., 1894, p. 70.

Hab. In Australia, on *Casuarina* sp. (New South Wales).

Genus **Tachardia**, Signoret (1886).

Carteria, Signoret (1876).

This genus has been reported from Australia, North America, Africa, Asia.

TACHARDIA ACACIÆ, Maskell. *Carteria acaciæ*, Maskell.—Maskell, N.Z. Trans., 1891, p. 56.

Hab. In Australia, on *Acacia*, sp. (Central Australia).

TACHARDIA DECORELLA, Maskell. *Carteria decorella*, Maskell.—Maskell, N.Z. Trans., 1892, p. 247; *ib.*, 1894, p. 70.

Hab. In Australia, on *Myrica cerifera*, *Styphelia (Monotoca) elliptica* (New South Wales).

TACHARDIA MELALEUCÆ, Maskell. *Carteria melaleucæ*, Maskell.—Maskell, N.Z. Trans., 1891, p. 54; *ib.*, 1892, p. 249.

Hab. In Australia, on *Melaleuca uncinata*, *Melaleuca pustulata*, *Eucalyptus* sp., *Aster axillaris*, *Leptospermum laevigatum* (New South Wales; Victoria).

Genus **Brachyscelis**, Schrader.

This genus has only been reported from Australia.

BRACHYSCELIS BAUERLENI, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 359. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.

Hab. In Australia, on *Eucalyptus* sp. (New South Wales).

BRACHYSCELIS (?) BEYERLÆ, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 276.

Hab. In Australia, on *Beyeria opaca* (South Australia).

BRACHYSCELIS CALYCINA, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 275.

Hab. In Australia, on *Eucalyptus dumosa*, *Eucalyptus oleosa* (South Australia).

- BRACHYSCHELIS CITRICOLA, Schrader.—Schrader, Trans. Ent. Soc. New South Wales, 1862, p. 3. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 597.
Hab. In Australia, on (?).
- BRACHYSCHELIS CONICA, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 365. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.
Hab. In Australia, on *Eucalyptus viminalis* (New South Wales; Victoria).
- BRACHYSCHELIS CRISPA, Olliff.—Olliff, MS.
Hab. In Australia, on *Eucalyptus* sp. (New South Wales).
- BRACHYSCHELIS DUPLEX, Schrader.—Schrader, Trans. Ent. Soc. New South Wales, 1862, p. 2. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 596. Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 358. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.
Hab. In Australia, on *Eucalyptus* sp. (New South Wales).
- BRACHYSCHELIS ELLIPSOIDALIS, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.
Hab. In Australia, on *Eucalyptus* sp. (Western Australia).
- BRACHYSCHELIS GLABRA, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 278.
Hab. In Australia, on *Eucalyptus rostrata* (South Australia).
 This is probably identical with *B. ovicola*, Schrader.
- BRACHYSCHELIS MINOR, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 363. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.
Hab. In Australia, on *Eucalyptus hamastoma* (New South Wales).
- BRACHYSCHELIS MUNITA, Schrader.—Schrader, Trans. Ent. Soc. New South Wales, 1862, p. 2. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 597. Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 359. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 271; *ib.*, p. 273.
Hab. In Australia, on *Eucalyptus robusta*, *Eucalyptus* var. sp. (New South Wales; Victoria; South Australia).
- BRACHYSCHELIS (?) NEUMANNI, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 275.
Hab. In Australia, on *Eucalyptus dumosa* (South Australia).
- BRACHYSCHELIS NUX, Olliff.—Olliff, MS.
Hab. In Australia, on *Eucalyptus* sp. (New South Wales).

BRACHYSCELIS OVICOLA, Schrader.—Schrader, Trans. Ent. Soc. New South Wales, 1862, p. 3. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 596. Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 367. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.

Hab. In Australia, on *Eucalyptus hæmastoma*, *Eucalyptus gracilis*, *Eucalyptus leucoxyton* (New South Wales; Victoria).

BRACHYSCELIS OVICOLOIDES, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 277.

Hab. In Australia, on *Eucalyptus incrassata*, *Eucalyptus odorata* (South Australia).

BRACHYSCELIS PHARETRATA, Schrader.—Schrader, Trans. Ent. Soc. New South Wales, 1862, p. 3. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 595. Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 370.

Hab. In Australia, on *Eucalyptus sieberiana*, *Eucalyptus corymbosa*, *Eucalyptus capitellata* (New South Wales).

BRACHYSCELIS PILEATA, Schrader.—Schrader, Trans. Ent. Soc., New South Wales, 1862, p. 3. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 593. Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 362. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.

Hab. In Australia, on *Eucalyptus hæmastoma*, *Eucalyptus piperita*, *Eucalyptus sieberiana*, *Eucalyptus capitellata* (New South Wales).

BRACHYSCELIS POMIFORMIS, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 367. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.

Hab. In Australia, on *Eucalyptus* sp. (Queensland; Western Australia).

BRACHYSCELIS REGULARIS, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 273.

Hab. In Australia, on *Eucalyptus rostrata* (South Australia).

BRACHYSCELIS RUGOSA, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 369. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.

Hab. In Australia, on *Eucalyptus* sp. (New South Wales).

BRACHYSCELIS (?) STROMBYLOSA, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 277.

Hab. In Australia, on *Eucalyptus incrassata* (South Australia).

Probably not a *Brachyscelis*.

BRACHYSCELIS SUBCONICA, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 274.

Hab. In Australia, on *Eucalyptus uncinata* (South Australia).

BRACHYSCELIS THORNTONI, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 371. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.

Hab. In Australia, on *Eucalyptus* sp. (New South Wales).

BRACHYSCELIS TRICORNIS, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 361.

Hab. In Australia, on *Eucalyptus siderophloia* (New South Wales).

BRACHYSCELIS UMBELLATA, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 336.

Hab. In Australia, on *Eucalyptus* sp. (New South Wales).

BRACHYSCELIS URNALIS, Tepper.—Tepper, Trans. Roy. Soc. South Australia, 1893, p. 274.

Hab. In Australia, on *Eucalyptus uncinata* (?), *Eucalyptus gracilis* (?) (South Australia).

BRACHYSCELIS VARIABILIS, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1892, p. 364. Tepper, Trans. Roy. Soc. South Australia, 1893, p. 272.

Hab. In Australia, on *Eucalyptus piperita*, *Eucalyptus* var. sp. (New South Wales).

Genus *Opisthoscelis*, Schrader.

This genus has been reported only from Australia.

OPISTHOSCELIS FIBULARIS, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 344.

Hab. In Australia, on *Eucalyptus* sp. (New South Wales; Victoria).

OPISTHOSCELIS GRACILIS, Schrader.—Schrader, Trans. Ent. Soc. New South Wales, 1862, p. 10. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 598.

Hab. In Australia, on (?) (New South Wales).

OPISTHOSCELIS MACULATA, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 345.

Hab. In Australia, on *Eucalyptus leucoxydon*, *Eucalyptus gracilis* (Victoria).

OPISTHOSCELIS MAMMULARIS, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 344.

Hab. In Australia, on *Eucalyptus*, sp. (Victoria).

OPISTHOSCELIS MASKELLI, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 340.

Hab. In Australia, on *Eucalyptus siderophloia*, *Eucalyptus* var. sp. (New South Wales).

OPISTHOSCELIS PISIFORMIS, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 343.

Hab. In Australia, on *Eucalyptus melliodora*, *Eucalyptus robusta*, *Eucalyptus piperita*, *Eucalyptus resinifera* (New South Wales).

OPISTHOSCELIS SERRATA, Froggatt.—Froggatt, Proc. Linn. Soc., New South Wales, 1893, p. 346.

Hab. In Australia, on *Eucalyptus* sp. (Victoria).

OPISTHOSCELIS SPINOSA, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 341.

Hab. In Australia, on *Eucalyptus siderophloia* (New South Wales).

OPISTHOSCELIS SUBROTUNDA, Schrader. — Schrader, Trans. Ent. Soc. New South Wales, 1862, p. 10. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 597. Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 210.

Hab. In Australia, on *Eucalyptus capitellata* (New South Wales).

OPISTHOSCELIS VERRUCULA, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 338.

Hab. In Australia, on *Eucalyptus* sp. (New South Wales).

Genus **Ascelis**, Schrader.

This genus has been reported only from Australia.

ASCELIS ATTENUATA, Froggatt.—Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 214.

Hab. In Australia, on *Eucalyptus piperita* (New South Wales).

ASCELIS PRÆMOLLIS, Schrader.—Schrader, Trans. Ent. Soc. New South Wales, 1862, p. 10. Signoret, Ann. de la Soc. Ent. de France, 1876, p. 599. Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 211.

Hab. In Australia, on *Eucalyptus corymbosa* (New South Wales).

ASCELIS SCHRADERI, Froggatt. — Froggatt, Proc. Linn. Soc. New South Wales, 1893, p. 213.

Hab. In Australia, on *Eucalyptus corymbosa* (New South Wales).