

## ON SOME SCOLYTIDAE AND PLATYPODIDAE OF ECONOMIC IMPORTANCE FROM THE TERRITORY OF PAPUA AND NEW GUINEA

(250. Contribution to the morphology and taxonomy of the Scolytoidea.)

By Karl E. Schedl

LIENZ, OSTTIROL, AUSTRIA

The first account of Scolytidae and Platypodidae of economic importance of Papua and New Guinea was published in *Pacific Insects* 6: 211-14, 1964. Since that time investigations on injurious insects in rubber and cacao plantations have been intensified and a new entomology section dealing with forest insect pests has been established. Mr B. Gray, Forest Entomologist, Department of Forests, recently published a mimeographed report titled "A Review of Forest Entomology, Collection of Insects and future Research in the Territory of Papua and New Guinea." From this report part A is devoted to the distribution, life history, damage and control of a major pest of Hoop pine - *Hylurdrectonus araucariae* Schedl. A number of field experiments dealing with *H. araucariae* have been established.

Field collections in recent years have revealed many Scolytidae and Platypodidae that are infesting Hoop and Klinkii pine; some of them being ambrosia beetles, others breeding under the bark in logs and in cones. Two of the species, *Cryphalus grayi* n. sp. which is described below and *C.* sp. which will be described as soon as more material is made available, infest the secondary branches of Klinkii pine and the needles and branchlets of Hoop pine respectively. *Hypothenemus eruditus* West. and *H. hispidus* Egg. who also infest the needles and branchlets of Hoop pine are secondary species of little economic importance. Three of the new species, *Platypus omissus* n. sp., *P. varipennis* n. sp. and *Diapus papuanus* n. sp., were found in large numbers in a freshly fallen Hoop pine log. Another new species, *Xyleborus glabrellus* n. sp., was found in the stem of an unhealthy Hoop pine.

A new species, *Poecilips pteridophytæ* n. sp., described below represents the first bark beetle ever found in a fern and is therefore of special interest. A few of the species treated below were collected by Dr J. J. H. Szent-Ivany, formerly Senior Entomologist, Department of Agriculture, Stock and Fisheries (D. A. S. F.), T. P. N. G. and by Dr D. Shaw, Principal Plant Pathologist, D. A. S. F., T. P. N. G.

### NEW RECORDS

#### SCOLYTIDAE

##### *Hylurdrectonus araucariae* Schedl

Hoop pine Plantations (Ptns), Wau, Morobe Dist., 6. IX. 1966, B. Gray (8905). 14 km

(9 mi.) along Bulolo-Wau Road, Morobe Dist., 2. X. 1966, in needles and branchlets of Hoop pine 4 m high, B. Gray (9656). Izzy-Dizzy Pltns., Wau, Morobe Dist., 22. X. 1966, in needles and branchlets of Hoop pine, Gray (9660). Kainantu, E. Highlands Dist., 13. X. 1966, in needles and branchlets of 12-13 yr. old planted Hoop pine, Gray (9662). Okapa (Okasa), E. Highlands Distr., 13. X. 1966, in 6 yr. old Hoop pine needles, Gray (9664). Watut River, Watut Valley, 12. XI. 1966, in needles and branchlets of natural Hoop pine, 12-15 m high, Gray (4).

**Hypothenemus eruditus** Westw.

Bulolo-Wau Road, Morobe Dist., 2. X. 1966, in needles and branchlets of Hoop pine, 4 m, Gray (9657). Bulolo, Morobe Dist., 22. X. 1966, virgin forest in Hoop pine needles and branchlets, Gray (9661). Okapa, E. Highlands Dist., 13. X. 1966, in 4 yr. old Hoop pine needles, Gray (9663). Inakanda, L. A. Bulolo, 27. II. 1967, in Hoop pine branchlets, Gray (2). Same locality, 9. III. 1967, in Hoop pine branchlets, 6 m high, Gray & Beraima (4). Okapa (Okasa), Pine Forest, E. Highlands Dist., 22. V. 1967, in branchlet of virgin Hoop pine tree, 14 m high, Gray (6).

**Hypothenemus hispidus** Egg.

Bulolo-Wau Road, Morobe Dist., 2. X. 1966, in needles and branchlets of Hoop pine, 4 m, Gray (9656).

**Cryphalus araucariae** Schedl, new species

Bulolo, Morobe Dist., 22. X. 1966, virgin forest in Hoop pine needles and branchlets, Gray.

**Cryphalus grayi** n. sp.

Rifle Range, L. A. Bulolo, 17. XII. 1966, in branchlet of Klinkii pine. Gray (5); same locality, 9. III. 1967, in Klinkii Pine branch, Gray (5).

**Poecilips papuanus** Eggers

Okapa (Okasa) Pine Forest, E. Highland Dist., 17. V. 1967, in cortex of Hoop pine cone, Gray (1); Same locality. 19. V. 1967, in fruit of *Melicope* sp.; same locality. 24. V. 1967. in cone of Hoop pine, Gray (11).

**Poecilips pteridophytæ** n. sp.

Rifle Range, L. A. Bulolo, 12. XI. 1966, in frond of *Pteridium aquilinum*, Gray (4). Kauli Forest, Wau, Morobe Dist., 6. XI. 1966, ex fern frond, Gray & J. Buchter (8906). Okapa (Okasa) grassland, E. Highland Dist., 18. V. 1967, in stem of bracken fern (*Pteridium aquilinum*), Gray (2). Okapa (Okasa) Pine Forest, E. Highland Dist., 19. V. 1967, in stem of bracken fern (*Pteridium aquilinum*), Gray (5). Punano, E. Highland Dist., 6. VI. 1967, in stem of *Pteridium aquilinum*, Gray (21). Afafinintegu, E. Highland Dist., 7. VI. 1967, in stem of *Pteridium aquilinum*, Gray (22). Bundi, Madang Dist., 15. VI. 1967, in stem of *Pteridium aquilinum*, Gray (26).

**Dryocoetes coffeae** Eggers

Bulolo-Wau road, Morobe Dist., 2. X. 1966, in branchlet of Hoop pine. Gray (9657).

**Arixyleborus canaliculatus** Eggers

Okapa (Okasa) Pine Tree Forest, E. Highlands Dist., 19.V.1967, in flight near stream, Gray (3); same locality, 22.V.1967, in flight, Gray (8). Tarabo, E. Highland Dist., 23.V.1967, in flight, Gray (10).

**Xyleborus barbatus** Hagen

Okapa (Okasa) Pine Forest, E. Highlands Dist., 2.VI.1967, under bark of Lauraceae sp., Gray (17).

**Xyleborus bidentatus** Motsch.

Killerton Beach, N. Dist., 4.VII.1960, in *Anisoptera* sp. log, F. Coppock (4 & 6).

**Xyleborus cognatus** Blandf.

Bulolo, C. N. G. T. Timberyard, 27.I.1967, in pole of *Araucaria* sp. B. Gray.

**Xyleborus cyclopus** Schedl

Okapa (Okasa) Pine Forest, E. Highlands Distr., 2.VI.1967, in freshly fallen log of *Heritiera trifolia*, Gray (14).

**Xyleborus glabrellus** n. sp.

Goroka Cemetary, E. Highlands Dist., 8.VI.1967, in stem of Hoop pine, 14m (45 ft) high, Gray (25).

**Xyleborus perforans** Woll.

Gazelle Pltn., New Britain, 25.V.1965, borer in stem of *Leucaena leucocephala*, shade tree in cacao plantation, Dorothy Shaw, Principal Pathologist (L/144-147). Golf course, Keravat, New Britain, 21.VII.1965, swarming at 5-6 p. m., Gray (8907, 9665). Bulolo, Morobe Dist., New Guinea, 22.X.1966, in house swarming at light 6.30 p. m., Gray. Killerton beach, N. Dist., 27.VI.1960 and 4.VII.1960, in *Anisoptera* sp. log, Coppock (1, 3 and 6).

**Xyleborus similis** Ferr.

Keravat, New Britain, 21.VI.1966, swarming at 5-6 p. m., Gray.

**Xyleborus szent-ivanyi** n. sp.

Papuan Highlands Livestock and Rubber Experiment Station, Bisianumu, C. Dist. of Papua, ca. 480 m (1600 ft), 19.VIII.1959, found on wall of house (crawling on surface), J. H. Szent-Ivany (L/148).

**Eccoptopterus spinosus** Oliv.

Gazelle Pltn., New Britain, 25.V.1965, borer in stem of *Leucaena leucocephala*, shade tree in cacao plantation, Dorothy Shaw, Principal Plant Pathologist (L/141, L/144-147).

## PLATYPODIDAE

**Crossotarsus barbatus** Chap.

Girua Ptn., Popondetta, N. Dist. borer in cacao, G. Baker (C 13, 8786).

**Crossotarsus biconcavus** Schedl

Girua Ptn., Popondetta, N. Dist., 2. VIII. 1966, borer in cacao, Baker (C 13, 8783, 8784, 8785).

**Crossotarsus kuntzeni** Schedl

Bulolo, 4. II, 1967, attracted to house light, Gray.

**Platypus chevrolati** Chapuis

Okapa (Okasa) Pine Forest, E. Highlands Dist., 2. VI. 1967, in freshly fallen log of *Heritiera trifolia*, Gray (18).

**Platypus jansoni** Chapuis

Lalahan Village Cacao Garden, Buka, Bougainville Dist. (nr. Sohano), 1.V.1965, suspected primary borer in stem of *Theobroma cacao*; according to the collector killed 2 cacao trees), H. Burton (L/142-143). Merani Estate, Cape Rodney Area, C. Dist., Papua, 9. X. 1965, boring into green bark of *Hevea brasiliensis* especially in tapping area, G. E. Elworthy (L/161-166).

Wewak, Sepik Dist., N. Guinea, Timberyard of Wewak Timbers Ltd., 17. VI. 1965, borer in *Anthocephalus* and *Anisoptera* logs preservatively treated with below described dip diffusion process (see *Platypus solidus* Walk.), G. N. Vickers (L/155-160). Station L. A. Bulolo, 9. III. 1967, boring into living Klinkii pine pole, Gray. Killerton beach, N. Dist., 27. VI. 1960 & 9. VII. 1960, in *Anisoptera* sp. log, Coppock (1 & 7).

**Platypus omissus** n. sp.

Afafinintegu, E. Highlands Dist., 7. VI. 1967, in fallen log of Hoop Pine, Gray (23).

**Platypus pseudocupulatus** ssp. **artecavus** Schedl

Okapa (Okasa) Pine Forest, E. Highlands Dist., 2. VI. 1967, in freshly fallen log of *Heritiera trifolia*, Gray (14).

**Platypus selysi** Chapuis

Merani Estate, Cape Rodney Area, C. Dist., Papua, 9. X. 1965, boring into green bark of *Hevea brasiliensis* especially in tapping area, G. E. Elworthy (L/167).

**Platypus semiopacus** Strohm.

Afafinintegu, E. Highlands Dist., 7. VI. 1967, in fallen log of Hoop pine, Gray (23).

**Platypus solidus** Walk.

Wewak, Sepik Dist., N. Guinea, Timberyard of Wewak Timbers Ltd., 17. VI. 1965, G. N.

Vickers (L/149-160). Two specimens found in 1 hole of an *Anthocephalus* log, preservative treated by dip-diffusion process using a mixture of Borax, Boracic Acid, Arsenic Pentoxide, Sodium dichromate and Sodium fluoride, a mixture with water to a concentration of 39.7 % (W/W) expressed on a Borax pentahydrate equivalent. Other specimens of the same species found boring in *Anthocephalus* and *Anisoptera* logs preservative treated with the above described dip diffusion process. Killerton beach N. Dist., 27.VI.1960, in *Anisoptera* sp. log, F. Coppock (1 & 8).

**Platypus ustus** n. sp.

Okapa (Okasa) Pine Forest, E. Highlands Dist., 2.VI.1967, in freshly fallen log of *Heritiera trifolia*, Gray (14).

**Platypus varipennis** n. sp.

Afafintegu, E. Highlands Dist., 7.VI.1967, in fallen log of Hoop pine, Gray (23).

**Treptoplatypus multiporus** n. sp.

Okapa (Okasa), Pine Forest, E. Highlands Dist., 2.VI.1967, in freshly fallen log of *Heritiera trifolia*, Gray (15, 20).

**Diapus papuanus** n. sp.

Okapa (Okasa) Pine Forest, E. Highlands Dist., 22.V.1967, in flight, Gray (7). Afafintegu, E. Highlands Dist., 7.VI.1967, in fallen log of Hoop pine, Gray (23).

**Diapus pusillimus** Chap.

Killerton Beach, N. Dist., 27.VI.1960, in *Anisoptera* sp. log, Coppock (3).

Bulolo, C. N. G. T. Timberyard, 27. I. 1967, in poles of *Araucaria* sp. Gray.

**Diapus 5-spinatus** Chap.

Okapa (Okasa) Pine Forest, E. Highlands Dist., 26.V.1967, in flight, Gray (13).

#### DESCRIPTION OF NEW SPECIES

**Cryphalus grayi** Schedl, new species

♀. Testaceous, 1.3 mm long, 2.1× as long as wide. Somewhat similar to *Cryphalus abbreviatus* Schedl from the Philippines, but with asperities of pronotum coarser, summit higher, anterior margin more broadly rounded, asperities minute, equal in size and rather remotely placed; elytra more shining, ground vestiture consisting of very small inclined and stout scales, and irregularly placed erect bristles on interstices less numerous and more conspicuous. *Front* convex, with a more or less distinct longitudinal carina in center, surface silky shining, minutely punctulate, very finely punctured, especially towards epistomal margin, pubescence inconspicuous, some longer hairs near and along anterior margin. *Pronotum* distinctly wider than long (17.5:15.0), posterolateral angles broadly rounded, sides subparallel on basal fifth, thence gradually incurved, anterior margin broadly rounded, armed with 8-10 very small asperities of equal size, subapical constriction merely indicated; summit distinctly behind center, rather high, anterior area convex, covered with rather remotely placed small asperities of nearly equal size, somewhat

more crowded near summit, posterior border of asperate area forming an angle of more than 90°, the basal area and sides very densely and finely punctulate, pubescence sparse, short and erect. Scutellum not visible. *Elytra* distinctly wider (19.0:17.5) and 1.6× as long as pronotum, sides parallel on basal half, thence gradually incurved, apex broadly rounded, declivity commencing after basal two fifths and uniformly convex; entire elytra very densely and very finely punctulate, punctures giving rise to minute stout and inclined scales, without any distinct strial punctures but striae sometimes indicated by impunctate darker lines, the interstices with scattered moderately long erect bristles being more numerous on declivity.

♂. Pronotum more narrowly rounded at apex, asperities more closely placed and front with a long, narrow transverse carina above center.

Holotype in Div. of Entomology, C. S. I. R. O., Canberra; allotype and paratypes in the collection of the Entomology Section, Dept. of Forests Bulolo, T. P. N. G., and in Schedl collection.

*Localities*: Rifle Range L. A., Bulolo, 17. XII. 1966, in branchlet of Klinkii pine, B. Gray (5). Inakanda, L. A., Bulolo, 9. III. 1967, in Klinkii Pine branch, Gray (5).

#### **Poecilips pteridophytæ** Schedl, new species

Piceous, legs ferruginous, 2.4-2.6 mm long, 2.36× as long as wide. Closely allied to *Poecilips nepheli* Egg., but in average a little smaller, more slender and elytra more cylindrical (while in *P. nepheli* Egg. the greatest width is not near base but at commencement of declivity).

*Front* broadly convex, somewhat rostrate, silky shining, minutely punctulate, rather finely punctured, with sparse long pubescence. *Pronotum* distinctly wider than long (30:26), posterolateral angles feebly rounded and of more than 90°, sides feebly divergent on basal fourth, thence obliquely incurved, with a distinct subapical constriction, apex broadly rounded; from base to apex moderately convex, subopaque, minutely punctulate, densely granulate punctate, with sparse long and erect hairs being more conspicuous at sides. Scutellum rather small and impunctate. *Elytra* distinctly wider (33:30), and 1.9× as long as pronotum, sides subparallel on basal half, thence gradually incurved, apex narrowly somewhat angulately rounded, declivity commencing in middle, uniformly and obliquely convex; disc striate punctate, the strial punctures rather coarse near suture, smaller at sides, striae feebly impressed, interstices narrow, partly with some transverse rugae and each with a row of minute punctures bearing moderately long erect hairs; declivity with striae more strongly impressed, interstices subconvex, but pubescence not distinctly longer than on disc.

In some specimens a short longitudinal carina is visible on the anterior half of the front, probably a sexual character.

Holotype in Div. of Entomology, C. S. I. R. O., Canberra; paratypes in the collection of Entomology Section, Dept. of Forests, Bulolo and in Schedl collection.

*Localities*: Rifle Range, L. A. Bulolo, 12. XI. 1966, in frond of *Pteridium aquilinum*, B. Gray (4). Kauli Forest, Wau, Morobe Dist., 6. XI. 1966, ex fern frond, B. Gray & J. Buchter (8906). Okapa (Okasa) grassland, E. Highland Dist., 18. V. 1967, in stem of bracken fern (*Pteridium aquilinum*), Gray (2). Same locality but 19. V. 1967, in stem of bracken fern (*Pteridium aquilinum*), Gray (5). Puano, E. Highland Dist., 6. VI. 1967, in stem of *Pteridium aquilinum*, Gray (22). Afafiningetu, E. Highland Dist., 7. VI. 1967, in stem of *Pteridium aquilinum*, Gray (22). Bundi, Madang Dist., 15. VI. 1967, in stem of *Pteridium aquilinum*, Gray (26).

**Xyleborus szentivanyi** Schedl, new species

♀. Dark brown, 8.7 mm long,  $2.1 \times$  as long as wide. Somewhat allied to *Xyleborus colossus* Blandf., but smaller, the elytral declivity more circular in outline, without the deep impression beneath upper margin, striae more deeply impressed on lower part of declivity and without a distinct transverse depression just before commencement of declivital face.

*Front* narrow, convex, subopaque, minutely punctulate, sparsely shallowly punctured, and with remotely placed long hairs. *Pronotum* distinctly wider than long (31:26), posterolateral angles rectangular and very feebly rounded, sides subparallel on basal fourth, semicircularly rounded anteriorly, in middle of the anterior margin with a short triangular extension; summit very high, situated somewhat behind center, anterior area steeply convex, densely covered with asperities being somewhat larger and not as closely placed anteriorly, very small and crowded around summit, a few of them reaching base, asperities replaced by rather small punctures towards posterolateral angles, pubescence fairly dense and rather long. Scutellum small and impunctate. *Elytra* feebly wider and  $1.5 \times$  as long as pronotum, widest at commencement of declivity, sides straight on little more than basal half, apex very broadly rounded, declivity commencing in middle, obliquely truncate, with well developed margins; disc shining, indistinctly striate-punctate, the striae punctures very small and closely placed, the striae feebly impressed, the interstices very wide, irregularly covered with punctures of about same size than those in striae, their density corresponding about double rows in anterior half, more crowded towards declivity, from interstitial punctures arising medium long reddish hairs; declivital face somewhat convex towards suture, striae punctures more distinct and striae more impressed than on disc, interstices with some of punctures replaced by minute granules, 2nd interstices strongly elevated towards center of declivital face and bearing 3-4 conspicuous tubercles, pubescence short and inclined, apical margin acute and fine, granulate.

Holotype in Schedl collection.

*Locality*: Papuan Highlands Livestock and Rubber Exp. Sta., Bisianumu, Central Dist. 480m (1600 ft), 19. VIII. 1959, found on wall of house (crawling on surface), Dr J. J. H. Szent-Ivany (L/148).

**Platypus omissus** Schedl, new species

♂. Very shining, dark reddish brown, legs and antennae more reddish, 3.7 mm long,  $3.3 \times$  as long as wide. Allied to *Platypus setaceus* Chap., but smaller, more slender, front more shining, punctures of cordate patch around medium sulcus of pronotum coarser, elytral striae narrower, especially near base, interstices less convex, without any granules on the first two of them, declivity more obliquely convex, and apical margin more narrowly rounded.

*Front* flat, brightly shining, very sparsely punctured, the fine punctures bearing fine reddish hairs. *Pronotum* but little longer than wide (33:29), widest behind well developed femoral emarginations, surface brightly shining, with very scattered minute punctures, a little more numerous on anterior half, medium sulcus long, surrounded by a cordate patch of densely placed well defined punctures, a series of long hairs along the anterior margin, a few of them on the sides, single ones half way between cordate patch and side margin. *Elytra* feebly wider (32:29) and  $1.8 \times$  as long as pronotum, widest at commencement of declivity, sides straight and feebly divergent on basal two thirds, thence strongly incurved, apex rather narrowly rounded, declivity commencing well behind basal half and obliquely convex; disc shining, on basal fourth rows of very fine punctures in somewhat impressed lines, thence gradually becoming sulcate but punctures replaced by an opaque reticulation, interstices nearly flat near base, feebly convex behind, covered with scattered very fine punctures; 1st interstices flat, opaque, with a few mi-

nute granules at beginning of declivity, others feebly carinate, more abruptly ceasing, continued of declivital face as gradually diminishing raised lines bearing uniseriate rows of small granules with short semierect setae, at beginning of lower third of the declivital face with a medium-sized pointed tubercle in continuation of 3rd interstices, another such tubercle lower down in continuation of interstice 7, the entire declivity subopaque, minutely punctulate.

♀. A little larger than ♂, the fine punctures on front and on pronotum more numerous and bearing long erect and fine hairs, this pubescence very conspicuous at anterolateral angles of front; elytral disc with not quite regular rows of fine punctures throughout, interstices with numerous punctures of the same size but giving rise to semierect setae like on pronotum, alternate interstices feebly convex, base of 3rd with a series of transverse rugae; the declivity shorter than in ♂, obliquely convex, regularly sulcate, sulci subopaque and minutely punctulate, interstices carinate and uniseriately granulate, granules bearing short semierect reddish setae, apical margin more broadly rounded than in ♂. The dense pubescence of the whole beetle may be observed in freshly emerged specimens, while in old ♀ the hairs are largely abraded.

Holotype and allotype in Div. of Entomology, C. S. I. R. O., Canberra; paratypes in the Entomology Section, Dept. of Forests, Bulolo, T. P. N. G. and in the Schedl collection.

*Locality*: Afafiningetu, E. Highlands Dist., 7. VI. 1967, in fallen log of Hoop Pine, B. Gray (23).

#### **Platypus ustus** Schedl, new species

♂. Piceous, 4.4 mm long, 3.7× as long as wide. Allied to *Platypus obtectus* Schedl, but smaller, pronotum more slender, elytra more distinctly striate-punctate, posterolateral processes shorter and blunt, apical margin between processes uniformly rounded.

*Front* nearly flat, longitudinally wrinkled in upper half, a median longitudinal carina extending from center to vertex, a low hump-shaped elevation on each side just within insertion of antenna, surface subopaque, minutely punctulate, shallowly punctured especially in lower half, a series of long erect hairs at beginning of vertex, a few others in anterolateral angles. *Pronotum* much longer than wide (40.0 : 29.5), widest behind well developed femoral emarginations, surface shining, rather densely covered with fine punctures of not quite equal size, median sulcus long, accompanied on each side with some larger punctures, a few long setae along anterior margin. *Elytra* feebly wider (33.0 : 29.5) and 1.9× as long as pronotum, widest short behind middle, sides feebly divergent in basal half, thence but little convergent up to posterolateral processes which are short, blunt and on outside with a minute angulate edge indicating termination of side margins, declivity restricted to apical third, feebly convex above, nearly perpendicular below, with semicircular depression rather common in this group of the Platypodidae, apical margin between lateral processes semicircular in outline, with a small notch at suture; disc feebly shining, finely striate-punctate, striae punctures small, confluent in parts, striae extremely narrow and not deep, interstices wide, flat, minutely reticulate and with some scattered fine punctures, these punctures becoming much larger on upper feebly convex part of declivity, upper margin of vertical part of declivital face (semicircular depression) blunt near suture, with 1 or 2 small tubercles, more acute on sides below, some short scattered hairs on interstices of upper feebly convex part of declivity.

Holotype in Div. of Entomology, C. S. I. R. O., Canberra; 1 paratype in Schedl collection

*Locality*: Okapa (Okasa), E. Highland Dist., 2. VI. 1967, in freshly fallen log of *Heritiera trifolia*, B. Gray (14,18).



**Platypus varipennis** Schedl, new species

♂. Piceous, 3.6mm long,  $3.7\times$  as long as wide. Allied to *Platypus ustus* n. sp., but smaller, elytral declivity shorter, more strongly convex, apical margin between lateral processes narrower, and interstices of upper convex part of declivity with rows of well developed setose granules.

*Front* flat, feebly impressed, with a median longitudinal carina in the upper half, surface silky shining, minutely punctulate, rather coarsely but not very densely punctured, punctures bearing short erect hairs. *Pronotum* longer than wide (35.0:24.5), widest behind well developed femoral emarginations, surface shining, covered with scattered very fine punctures, median sulcus long and fine, surrounded by a longitudinal patch of densely placed large punctures, a few larger setose punctures along anterior margin. *Elytra* feebly wider (27.0:24.5) and  $1.8\times$  as long as pronotum, widest behind middle, sides straight in basal half, more strongly convergent behind than in *P. ustus* n. sp., the distance between the posterolateral processes shorter than in the allied species, therefore the apical margin between the processes more strongly curved; disc shining, with regular rows of very fine punctures in hardly impressed lines, interstices flat and wide, each with a few scattered minute punctures which are difficult to see; declivity very short, restricted to apical fifth of elytra, rather strongly convex above, strial punctures obsolete, each interstice with a row of granules bearing short semierect setae, the lower perpendicular part of the declivity with the semicircular depression shining, separated from upper part by a feebly raised margin, more distinct towards sides and terminating into a minute tooth indicating termination of side margin of elytra.

Holotype in Div. of Entomology, C. S. I. R. O., Canberra; paratype in Entomological Section, Dept. of Forests, Bulolo, T. P. N. G., and in Schedl collection.

*Locality*: Afafiningetu, E. Highlands Dist., 7. VI. 1967, in fallen log of Hoop Pine, B. Gray (23).

**Diapus papuanus** Schedl, new species

♂. Testaceous, front, anterior part of pronotum and elytra castaneous, 2.2 mm long,  $3.2\times$  as long as wide. A new species to be placed near *Diapus pusillimus* Chap., but somewhat larger, pronotum near base with a median sulcus, on each side of it with a short broad squamous sulcus bent forward along median impressed line, apex of elytra horizontal, acutely margined, with a very small notch at suture, convex and nearly perpendicular face below without a triangular tooth on each side like this can be observed in *D. pusillimus* Chap.

*Front* silky shining, flat, remotely and shallowly punctured, insertion of antennae well before eyes and widely separated from each other. *Pronotum* but little longer than wide (20:19), femoral emarginations short and deep, surface shining, without distinct punctuation in center, a few setose larger punctures along anterior margin, median sulcus fine and long, straight squamous structures near base of *Diapus pusillimus* replaced by a much wider bisinuate sulcus. *Elytra* feebly wider (20:19) and  $1.8\times$  as long as the pronotum, widest after basal three fifths, sides straight, very feebly convergent after greatest width, apex abruptly incurved, elytral disc horizontal, terminating into an acute margin somewhat surpassing upper part of subperpendicular and convex declivital face, a very small notch at suture; elytral disc minutely chagrined on basal  $2/3$ , polished behind, without any distinct rows of punctures; subperpendicular declivital face polished, with a row of setose punctures just beneath upper elevated margin, apical margin broadly curved when seen from above, broadly concave when viewed from behind. Last abdominal sternite perpendicular, circular in outline, densely and rather coarsely punctured and with short pubescence.

Holotype in Div. of Entomology, C. S. I. R. O., Canberra, paratypes in Entomological Sec-

tion, Dept. of Forests, Bulolo, T. P. N. G. and in Schedl collection.

*Locality*: Afafiningetu, E. Highlands Dist., 7. VI. 1967, in fallen log of Hoop pine, B. Gray (23).

***Treptoplatypus multiporus* Schedl, new species**

A long time ago Schedl described *Platypus ornatifrons* from New Guinea (1942 Mitt. Münch. Ent. Ges. 32:198) matching the 2 sexes by similarity of size and general shape and choosing the specific name by the peculiar shape of the ♀ front. The last consignment of timber beetles sent by Mr Gray contained a good series of a species of which the ♂ corresponds in all respects with the type of *Platypus ornatifrons* but the ♀ evidently refers this species to the genus *Treptoplatypus* Schedl. As this series has been taken from galleries there is little doubt that the two sexes belong to one and the same species, while the female described as *Platypus ornatifrons* has to be left in the genus *Platypus* Herbst and has to be placed near *P. gerstaeckeri* Chap. In order to separate the 2 species involved in the original description of *P. ornatifrons* it is proposed to retain this name for the female, referring the male, and the below described female found by B. Gray to a new species called: *Treptoplatypus multiporus*.

♀. Piceous, 5.0 mm long, 3.6× as long as wide. Of similar size and proportions as *Treptoplatypus trepanatus* Chap., but with cavity of front not as deep, raised lateral margin wider and not higher than eyes, flattening out above, pronotum with a patch of large pores, striae punctures of elytra remotely placed in feebly impressed lines etc.

*Front* wide, shining, with a transverse shallow impression, along median line feebly raised, anterior to depression with a rather wide polished impunctate sclerite showing a few punctures with long reddish hairs towards anterolateral angles, lateral border of cavity formed by a small densely punctate band with a few long incurved hairs (in freshly emerged specimens certainly a dense fringe of hairs), this band also following upper margin of cavity but gradually becoming smaller, remaining part of frontal face narrow and perpendicular, separated from the vertex by an acute angle. *Pronotum* about as long as wide, femoral emarginations shallow, median sulcus long and fine, disc polished and nearly impunctate, a few setose punctures along anterior margin, with a patch of large pores (10-11) on each side in central part of disc. *Elytra* feebly wider (12.8:12.4) and 2× as long as pronotum, sides parallel on basal two thirds, very broadly rounded behind, declivity very short and obliquely convex; disc shining, with rows of very fine punctures in hardly impressed lines, these more distinctly so near base, base of interstices 3, 4, 5 somewhat raised and covered by short transverse rugae, with very scattered fine punctures behind; declivity densely and roughly punctured and with semierect yellow pubescence, with an oblique raised ridge dividing declivital convexity into 2 parts as this is rather common in many ♀♀ of the Platypodidae.

Holotype in Div. of Entomology, C. S. I. R. O., Canberra, in the collection of the Entomology Section of the Dept. of Forests, Bulolo, T. P. N. G. and in Schedl collection.

*Locality*: Okapa (Okasa), E. Highlands Dist., 2. VI. 1967, in freshly fallen log of *Heritiera trifolia*, B. Gray (15, 20).