

outer surface of chela. However, it is easily distinguished by its much longer lateral spines on carapace and distally on merus of cheliped and in having three triangular lobes on posterior margin of carapace.

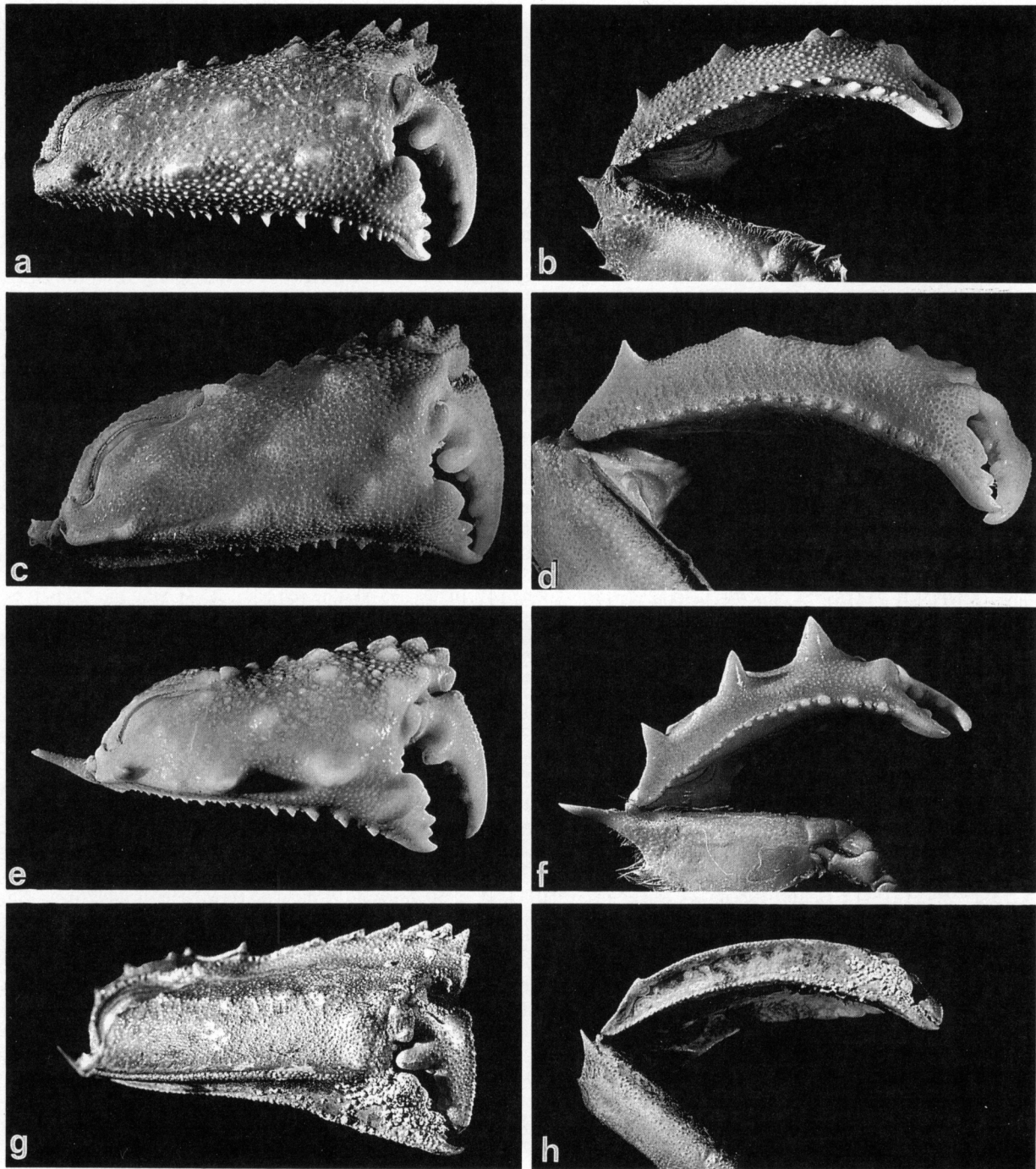


FIG. 9. — Cheliped, external and ventral views : a-b, *Mursia flamma* sp. nov., ♂, holotype, cl 57.9 mm, Madagascar, 370 m (MNHN-B 24371). — c-d, *Mursia spinimanus* Rathbun, 1906, ♂, holotype, cl 35.8 mm, Hawaiian Ids, 232 m (USNM 29922). — e-f, *Mursia trispinosa* Parisi, 1914, ♂ cl 42.5 mm, Philippines, 170-174 m (MNHN-B 24428). — g-h, *Platymera gaudichaudii* H. Milne Edwards, 1837, ♂ cl 45.9 mm, Mexico (MNHN-B 88).

The species described and depicted by RATHBUN (1911) differs from *M. spinimanus* in having a rugose carapace with more prominent radial tubercles, backwards slanting lateral spines and quadrispinose cheliped merus.

DISTRIBUTION. — Hawaiian Islands; 95-461 m.

Mursia trispinosa Parisi, 1914

Fig. 7 c, 9 e-f, 10 h-i

Mursia armata trispinosa Parisi, 1914 : 290, pl. 12.

Mursia armata curtispina - SAKAI, 1936 : 48, pl. 7 fig. 3; 1937 : 87 (part), pl. 11 fig. 4. Non Miers, 1886.

Mursia curtispina trispinosa - SAKAI, 1965 : 53, textfig. 8a-a', pl. 21 fig. 2. — KIM & PARK, 1972 : 57, textfig. 1 a-b, pl. 1 fig. 1.

Mursia trispinosa - TAKEDA & KOYAMA, 1974 : 105. — SAKAI, 1976 : 137, textfig. 74b-b', pl. 43 fig. 4. — MIYAKE, 1983 : 24, pl. 8 fig. 6. — DANG *et al.*, 1986 : 204.

MATERIAL EXAMINED. — **Japan.** Mie Prefecture, Kii, 1978-1979, coll. M. YAMASHITA : 1 ♂, cl 38.5, cw 46.0, mcw 64.4 (NMM 32070). — Shikoku Id., Tosa Bay, April 1961, id. T. SAKAI : 1 ♂, cl 41, cw 48, mcw 68 (BMNH 1961.6.5.23). — November 1965, id. T. SAKAI : 1 ♂, cl 43.5, cw 51.9, mcw 73.0 (USNM 268057). — Misaki, id. M. J. RATHBUN : 1 ♂, cl 39.0, cw 45.8, mcw 73.7 (USNM 63690).

Philippines. MUSORSTOM 1 : stn 12, 14°00.8'N, 120°20.5'E, 210-187 m, 20 March 1976 : 1 ♂, cl 42.7, cw 52.1, mcw 74.8; 4 ♀, cl 25.3-36.7, cw 30.3-43.3, mcw 45.3-64.6 (MNHN-B 24410). — Stn 25, 14°02.7'N, 120°20.3'E, 200-191 m, 22 March 1976 : 1 ♂, cl 46.8, cw 56.7, mcw 79.7; 2 ♀, cl 36.4, 37.0, cw 44.2, 44.5, mcw 64.5, 66.1 (MNHN-B 24412). — Stn 26, 14°02.9'N, 120°16.8'E, 189 m, 22 March 1976 : 2 ♂, cl 11.5-23.7, cw 13.5-28.4, mcw 18.9-41.7; 2 ♀, cl 33.8-35.2, cw 40.4-42.6, mcw 62.8-63.1 (MNHN-B 24413). — Stn 34, 14°01.0'N, 120°15.8'E, 191-188 m, 23 March 1976 : 1 juv. (MNHN-B 24414). — Stn 51, 13°49.4'N, 120°04.2'E, 200-170 m, 25 March 1976 : 1 ♀, cl 37.2, cw 45.6, mcw 67.9; 1 juv. (MNHN-B 24415). — Stn 62, 13°59.5'N, 120°15.6'E, 179-194 m, 27 March 1976 : 1 juv. (MNHN-B 24416). — Stn 63, 14°00.8'N, 120°15.8'E, 191-195 m, 27 March 1976 : 1 ♂, cl 21.4, cw 25.2; 1 ♀, cl 36.0, cw 43.3, mcw 65.0 (MNHN-B 24417). — Stn 65, 14°00'N, 120°19.2'E, 202-194 m, 27 March 1976 : 1 ♀, cl 35.7, cw 43.4, mcw 62.6 (MNHN-B 24418).

MUSORSTOM 2 : stn 1, 14°00.3'N, 120°19'E, 188-198 m, 20 November 1980 : 1 ♀, cl 37.5, cw 44.6, mcw 65.5 (MNHN-B 24419). — Stn 2, 14°01'N, 120°17.1'E, 184-186 m, 20 November 1980 : 2 juv. (MNHN-B 24420). — Stn 10, 14°00.1'N, 120°18.5'E, 188-195 m, 21 November 1980 : 5 ♂, cl 11.8-24.0, cw 13.8-29.5, mcw 21.5-44.1; 7 ♀, cl 12.0-36.8, cw 14.0-44.3, mcw 20.5-64.7 (MNHN-B 24421). — Stn 18, 14°00'N, 120°18.6'E, 188-195 m, 22 November 1980 : 6 ♂, cl 16.7-42.8, cw 19.9-53.5, mcw 30.8-81.0; 5 ♀, cl 11.5-38.9, cw 13.5-47.2, mcw 20.0-71.3; 2 juv. (MNHN-B 24422). — Stn 19, 14°00.5'N, 120°16.5'E, 189-192 m, 22 November 1980 : 1 ♂, cl 16.5, cw 19.7, mcw 29.1; 2 ♀, cl 12.3, 35.8, cw 14.4, 43.3, mcw 20.8, 65.2 (MNHN-B 24423). — Stn 20, 14°00.9'N, 120°18.1'E, 192-185 m, 22 November 1980 : 2 ♂, cl 26.9, 42.8, cw 31.3, 52.4, mcw 47.6, 76.4; 4 ♀, cl 17.3-37.2, cw 20.7-45.0, mcw 29.6-69.8; 3 juv. (MNHN-B 24424). — Stn 21, 14°00.2'N, 120°17.8'E, 191-192 m, 22 November 1980 : 1 ♂, cl 33.8, cw 41.6, mcw 63.5; 7 ♀, cl 18.7-37.7, cw 22.0-45.5, mcw 34.5-67.1 (MNHN-B 24425). — Stn 35, 13°27.9'N, 121°11.6'E, 160-198 m, 24 November 1980 : 1 ♀, cl 30.4, cw 36.7, mcw 55.0 (MNHN-B 24426). — Stn 51, 13°59.3'N, 120°16.4'E, 170-187 m, 27 November 1980 : 2 ♂, cl 17.5, 33.9, cw 20.6, 40.8, mcw (broken), 62.3; 1 ♀, cl 36.4, cw 43.9, mcw 65.7 (MNHN-B 24427). — Stn 54, 13°59.5'N, 120°09.3'E, 170-174 m, 27 November 1980 : 1 ♂, cl 42.5, cw 52.3, mcw 77.5; 1 ♀, cl 24.5, cw 29.0, mcw 39.4 (MNHN-B 24428). — Stn 62, 14°00.4'N, 120°17'E, 186-189 m, 29 November 1980 : 2 ♀, cl 34.6, 35.3, cw 42.0, 42.3, mcw 64.0, 64.6; 2 juv. (MNHN-B 24429). — Stn 64, 14°01.5'N, 120°18.9'E, 191-195 m, 29 November 1980 : 1 ♂, cl 17.3, cw 20.9, mcw 32.3; 3 ♀, cl 17.8-37.9, cw 21.6-45.5, mcw 32.3-67.2 (MNHN-B 24430). — Stn 68, 14°01.9'N, 120°18.8'E, 195-199 m, 29 November 1980 : 1 ♂, cl 23.8, cw 29.4, mcw 43.2; 4 ♀, cl 33.2-36.1, cw 39.8-43.5, mcw 52.9 (broken)-63.8 (MNHN-B 24431). — Stn 72, 14°00.1'N, 120°17.8'E, 189-197 m, 30 November 1980 : 2 ♂, cl 32.5-45.6, cw 40.3-57.0, mcw 59.8-84.9; 5 ♀, cl 36.3-38.2, cw 44.9-45.7, mcw 64.9-70.7; 4 juv. (MNHN-B 24432).

MUSORSTOM 3 : stn 86, 14°00.4'N, 120°17.8'E, 187-192 m, 31 May 1985 : 2 ♂, cl 12.5, 33.4, cw 14.4, 41.0, mcw 21.4, 63.3 (MNHN-B 24433). — Stn 88, 14°00.5'N, 120°17.4'E, 183-187 m, 31 May 1985 : 11 juv. (MNHN-B 24434). — Stn 90, 14°00.1'N, 120°18.6'E, 195 m, 31 May 1985 : 2 ♀, cl 9.2, 35.7, cw 10.7, 43.7, mcw 15.7, 60.1 (MNHN-B 24435). — Stn 91, 14°00.1'N, 120°17.8'E, 190-203 m, 31 May 1985 : 2 ♀, cl 34.4 34.6, cw 41.2, 42.2, mcw 60.4, 62.6 (MNHN-B 24436). — Stn 96, 14°00.3'N, 120°17.3'E, 190-194 m, 1 June 1985 : 2 ♀, cl 34.8, 35.7, cw 41.5, 42.4, mcw 60.5, 63.9; 5 juv. (MNHN-B 24437). — Stn 97, 14°00.7'N, 120°18.8'E, 189-194 m, 1 June 1985 : 2 ♀, cl 36.1, 36.2, cw 43.0, 44.1, mcw 64.1, 65.8 (MNHN-B 24438). — Stn 98, 14°00.2'N, 120°17.9'E, 194-205 m, 1 June 1985 : 1 juv. (MNHN-B 24439). — Stn 100, 14°00'N, 120°17.6'E, 189-199 m, 1 June 1985 : 1 ♂, cl 45.7, cw 56.8, mcw 82.9; 2 ♀, cl 24.7, 36.2, cw 30.4, 42.7, mcw 44.4, 64.6; 3 juv. (MNHN-B 24440). — Stn 103,

14°00.4'N, 120°18.15'E, 193-200 m, 1 June 1985 : 1 ♀, cl 35.8, cw 43.1, mcw 64.5 (MNHN-B 24441). — Stn 109, 14°00.2'N, 120°17.6'E, 190-198 m, 2 June 1985 : 2 ♂, cl 43.7, 44.3, cw 54.4, 54.6, mcw 77.3, 82.2 (MNHN-B 24442).

"Albatross" : stn 5278, Malavatuan Id., nr Luzon, 14°00.10'N, 120°17.15'E, 187 m, 17 July 1908 : 1 ♀ ovig., cl 34.6, cw 41.8, mcw 63.0; 1 ♀, cl 34.2, cw 41.0, mcw 60.3 (parasitized) (USNM).

New Caledonia. SMIB 6 : stn 114, 19°01.2'S, 163°28.8'E, 355-265 m, 2 March 1991 : 1 ♀, cl 33.2, cw 39.2, mcw 50.5 (tips broken) (MNHN-B 22375).

Loyalty Islands. MUSORSTOM 6 : stn 421, 20°26.27'S, 166°40.17'E, 245 m, 16 February 1989 : 1 ♀, cl 32.9, cw 39.1, mcw 56.0 (MNHN-B 24483).

TYPE LOCALITY. — Sagami Bay, Japan (PARISI, 1914).

DESCRIPTION. — Carapace 1.2 wide as long, surface granulate, granules diminishing in size anteriorly, posteriorly. Radial tubercles distinct. Median frontal lobe triangular, projecting forward beyond rounded lateral lobes. Supraorbital margin uniffissured. Suborbital sinus v-shaped, suborbital tooth triangular, apex pointing inward. Anterolateral margins cristate, with ten nearly effaced, rounded teeth. Lateral spine 0.2 carapace width, minutely granulate, curved upwards. Posterolateral margin beaded, sinuous. Lateral lobes of posterior margin triangular, laminar, upcurved. Merus of cheliped trispinose, distal spine largest. Outer surface of chela closely granulate, with nine tubercles in three oblique rows and three tubercles near base of serrate upper crest, tubercles in lower row large, triangular, distalmost largest. Lower margin serrate, teeth smaller proximally. Dactylus granulate proximally on anterior margin. Upper margin of pereopodal meri rounded, minutely granulate. Abdominal crest deeply cut, median lobe quadrate. Second male pleopod hook-shaped distally, tip upcurved.

Color. - Carapace and chelipeds orange-red, tubercles buff colored. Lateral spine on carapace and distalmost meral spine on cheliped dark red. Ambulatory legs pale coral. Interior palmar surface, near dactylar base with small red spot.

REMARKS. — *M. trispinosa* was described by PARISI (1914) as *M. armata trispinosa*, differing from *M. armata* in having three robust, aequidistant, triangular teeth on lower external surface of chela and shorter lateral spines on carapace. SAKAI's illustrations of *M. armata curtispina* (1936, 1937) are identical with PARISI's depiction, as indeed SAKAI acknowledged in later publications (1965, 1976).

DISTRIBUTION. — Korea, Japan, East China Sea, Philippines, New Caledonia; 70-355 m.

Genus *PLATYMER*A H. Milne Edwards, 1837

Platymera H. Milne Edwards, 1837b : 107. — LUCAS, 1840 : 109. — MILNE EDWARDS & LUCAS, 1844 : 28. — ALCOCK, 1899a : 24. — HOLMES, 1900 : 98. — RATHBUN, 1906 : 888.

TYPE SPECIES. — *Platymera gaudichaudii*, H. Milne Edwards, 1837, by monotypy.

DIAGNOSIS. — Carapace transversely oval, convex, regions poorly marked. Front as wide as orbit, tridentate. Anterolateral margin arcuate, carinate, dentate. Posterolateral margin sinuously diagonal, carinate. Posterior margin entire. Lateral spine well developed. Eye with stout calcareous stalk, hemispherical cornea. Antennules fold obliquely into subfrontal grooves. Basal article of antennae cylindrical, lying between antennular groove and quadrate suborbital tooth. Supraorbital margin fissured, setose. Suborbital margin medially interrupted by sinus opening unto obliquely set subhepatic canal. External maxilliped granulate, not reaching to anterior margin of buccal frame. Exognath columnar, its internal margin with small tooth. Ischium of endognath parallelogram, its internal margin dentate; merus deeply excavate at internal distal angle; endognathal palp triarticulate, setose, its basal segment fitting into meral excavation. Chelipeds massive, nearly equal. Merus anteriorly bispinose. Upper margin of palm crested, dentate. External surface of palm with a prominent ridge above cristate, granulate lower margin. Internal surface of dactylus granulose. Larger dactylus with proximal tooth fitting unto molariform process on immovable finger. Pereiopods long, laterally compressed, dactyls styliform. Sternum, near base of

chelipeds, bearing a prominent triangular projection. Male abdomen five segmented, second abdominal segment prominently carinate. First male pleopod short, outcurved, tapering distally. Second male pleopod long, slender, distally cornute.

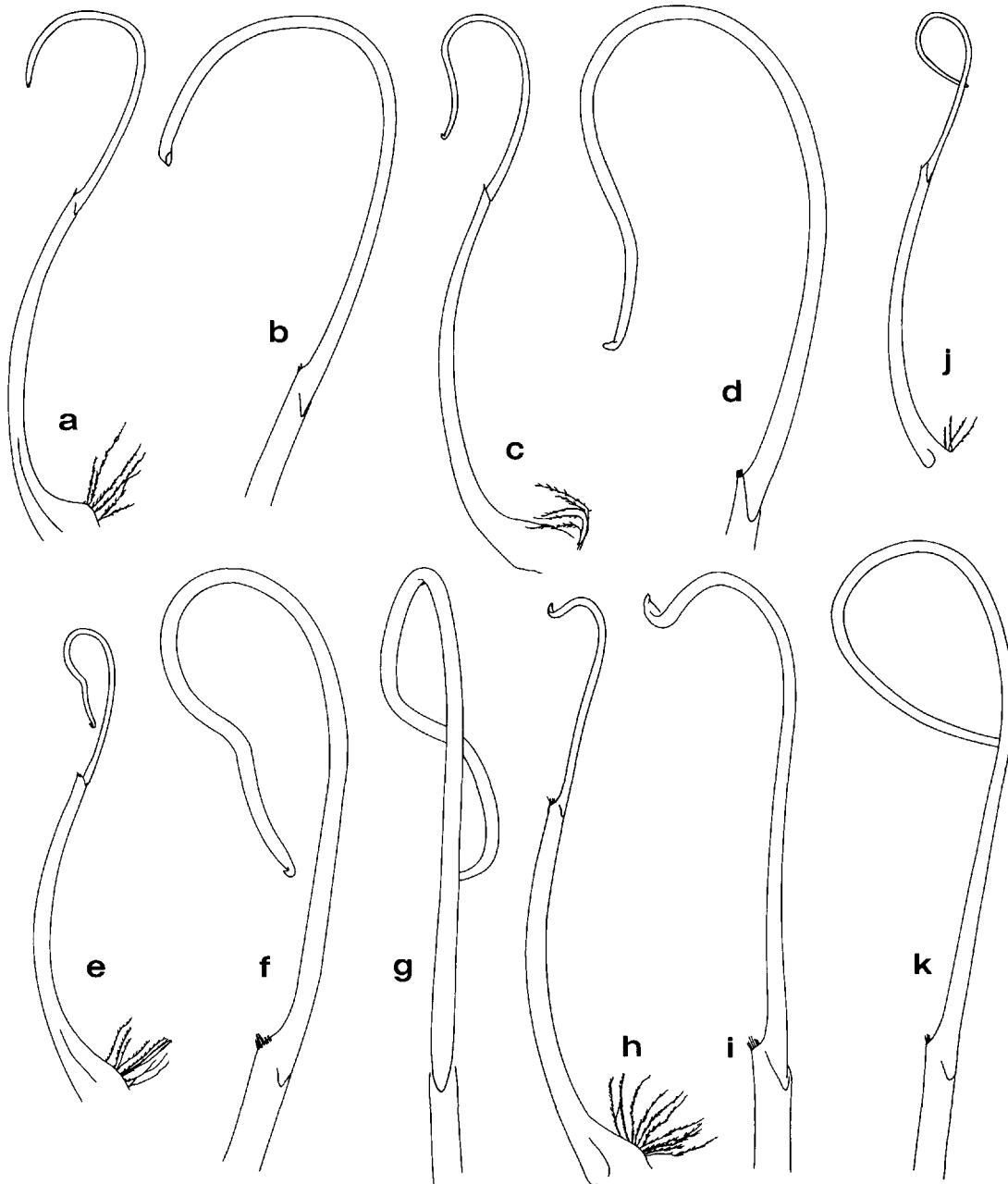


FIG. 10. — Second pleopod male with enlargement of distal part : a-b, *Mursia musorstomia* sp. nov., ♂, holotype, cl 19.7 mm, New Caledonia, 475 m (MNHN-B 24396). — c-d, *Mursia flamma* sp. nov., ♂, holotype, cl 57.9 mm, Madagascar, 370 m (MNHN-B 24371). — e-g, *Mursia spinimanus* Rathbun, 1906, ♂, holotype, cl 35.8 mm, Hawaiian Ids, 232 m (USNM 29922). — h-i, *Mursia trispinosa* (Parisi, 1914), ♂ cl 42.5 mm, Philippines, 170 m (MNHN-B 24428). — j-k, *Platymera gaudichii* H. Milne Edwards, 1837, ♂ cl 29.6 mm Mexico, (MNHN-B 20859).

REMARKS. — H. MILNE EDWARDS (1837b : 107) erected *Platymera* for a single specimen collected in Chile, which he described as "un crustacé très remarquable qui lie entre eux les Calappes et les Mursias". ALCOCK (1899a), discussing *M. bicristimana*, wrote "a comparison of this species (*M. bicristimana*) with specimens of *M. armata* and *Platymera gaudichaudii* leads to the belief that all three are congeneric". RATHBUN (1906) concurred : "I agree with Maj. ALCOCK that *Platymera* should be united with *Mursia*", and it was thus accepted by subsequent authors. *Platymera*, though closely allied to *Mursia*, differs from it in having the abdominal carina undivided into three lobes, a unidentate carinate ridge on the external surface of the palm, the third maxilliped merus deeply excavate anteriorly and lacking the stridulating organ formed by the dactylar milled ridge of the chela and the beaded row anteriorly on ischium of third maxilliped. Examination of these features led to reevaluation of its status - *Platymera* is herein reinstated as a distinct genus.

Platymera gaudichaudii H. Milne Edwards, 1837

Fig. 7 d, 9 g-h, 10 j-k

Platymera gaudichaudii H. Milne Edwards, 1837b : 108. — LUCAS, 1840 : 109. — H. MILNE EDWARDS & LUCAS, 1842, pl. 13 fig 1; 1844 : 28. — WHITE, 1847 : 45. — NICOLET, 1849 : 172. — CUNNINGHAM, 1871 : 493. — RATHBUN, 1898 : 610; 1904 : 170; 1910 : 593. — CANO, 1889a : 94; 1889b : 250. — FAXON, 1895 : 32. — HOLMES, 1900 : 99. — RATHBUN, 1904 : 170; 1910 : 593.

Platymera gaudichaudii - MIERS, 1881 : 71. — ORTMANN, 1892 : 563. — LENZ, 1902 : 750. — PORTER, 1906 : 132; 1921 : 422, pl. 38; 1925 : 318; 1936a : 153; 1936b : 338.

Platymera californiensis Rathbun, 1893 : 253.

Mursia gaudichaudii - WEYMOUTH, 1910 : 19. — SCHMITT, 1921 : 190, textfig. 118. — CRANE, 1937 : 99. — RATHBUN, 1937 : 220, pl. 66 figs 1-3, pl. 67 figs 1-6. — GARTH, 1946 : 361, pl. 62 figs 3-4; 1966 : 13. — HAIG, 1968 : 24.

Mursia gaudichaudii - PORTER, 1940a : 146; 1940b : 312; 1941 : 459. — GARTH, 1957 : 16.

MATERIAL EXAMINED. — United States. "California". San Clemente Id., 35°25'N, 119°09'W, 91-110 m, 6 May 1976, id. M. WICKSTEN : 1 ♂, cl 50.3, cw 72.7, mcw 94.7; 1 juv., cl 15.0 (USNM 170405).

Mexico. Sinaloa, off Punta Piaxtla, 16 January 1982, coll. Estacion Mazatlan UNAM : 2 ♂ cl 28.5, 29.8, cw 43.0, 43.5, mcw 56.6, 57.7 (MNHN-B 20859).

Panama. Gulf of Tanama, "Pillsbury", stn 513, 7°40.9'N, 79°42'W, 4 May 1967 : 3 ♂, cl 42-63; 18 juv. (NNM 23547). — Stn 515, 8°00.4'N, 79°40.8'W, 4 May 1967 : 1 ♂, cl 45.6; 8 juv. (NNM 25369). — Stn 531, 8°25.5'N, 79°10.7'W, 6 May 1967 : 3 ♂, cl 38-49 (NNM 23544).

Peru. San Lorenzo Id., nr Callao, 10 March 1952, coll. W. R. WEYRAUCH : 1 ♀, cl 28.9 (NNM 11061).

Chile. Coll. M. GAY : 1 ♂, cl 62.9, cw 92.4, mcw 119.7 (MNHN-B 87). — Coll. M. GAUDICHAUD : 1 ♂, cl 72.4, cw 112.7, mcw 135.8 (MNHN-B 3989); 1 ♀, cl 68, cw 95, mcw 116 (MNHN-B 85); 1 ♂, cl 45.9, cw 70.0, mcw 90.4 (MNHN-B 88). — Coll. M. FONTAINIER : 1 ♂, cl 62.7 (MNHN-B 86) (labelled Chine). — Valparaiso, coll. M. GAUDICHAUD : 1 ♂, cl 14.6, cw 20.7, mcw 31.6 (MNHN-B 91); 2 ♀, cl 19.4, 20.0, cw 27.3, 27.9 (MNHN); 2 juv. (MNHN-B 90). — 1878, id. H. MILNE EDWARDS : 1 ♂ (NNM). — Valparaiso, 22 January 1956 : 1 ♀, cl 41 (NNM 15622). — 200-300 m, July 1963, id. J. GARTH : 5 ♀, 19.6-41.1, cw 28.9-59.8, mcw 40.5-broken (USNM 156201).

TYPE LOCALITY. — Chile (H. MILNE EDWARDS, 1837).

DESCRIPTION. — Carapace 1.4-1.5 wide as long, shagreened, with seven nearly obsolescent radial ridges, bearing tubercles in juvenile specimens. Front, minutely granulate, lateral lobes triangular, divergent, projecting forward of rostrum. Anterolateral margins carinate, scalloped, with fifteen minute teeth. Lateral spine granulate, nearly one seventh carapace width, longer in young specimens. Posterolateral margin prominently carinate, granulate. Posterior margin minutely beaded. Supraorbital margin barely fissured, granulate. Suborbital tooth subquadrate, its anterior margin granulate, oblique. Subhepatic and pterygostomial regions granulate, densely setose. Proximal meral spine small, distal spine acuminate. External surface of carpus granulate, with beaded carinae proximally and three equidistant tubercles medially. External surface of palm granulate. Crest with six distad granular teeth. Medially on palm row of nearly effaced tubercles. Above lower margin a prominent granular ridge, proximally unidentate. Lower margin beaded, crested. Dactylus granulate both on exterior and interior surfaces, with granulate crest anteriorly. Pereiopods with superior margin of meri granular, carpi and

propodi bicristate, beaded, dactyls carinate. First male pleopod densely spinose. Second male pleopod distally looped.

Color. - "Rougeâtre" (H. MILNE EDWARDS, 1837b). "Broccoli brown with spines and tubercles ochraceous. Hands lighter than carapace, lower margin white" (SCHMITT, 1921).

REMARKS. — RATHBUN (1893) established *P. californiensis* for specimens collected off the coast of California, differing only in insignificant details from H. MILNE-EDWARDS & LUCAS' not entirely accurate figure (1844). However, RATHBUN later (1937) recognized its similarity to *P. gaudichaudii* and placed *californiensis* as its junior synonym.

DISTRIBUTION. — Along the West coast of America from the Farrallone Islands, California to Chile; 22-399 m.

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- FIG. 11. — *Mursia australiensis* Campbell, 1971. New Caledonia, MUSORSTOM 5, stn 261, 25°26.58'S, 159°45.88'E, 300 m. Photograph P. LABOUTE. ORSTOM.
- FIG. 12. — *Mursia microspina* Davie & Short, 1989. New Caledonia, MUSORSTOM 5, stn 304, 22°10.34'S, 159°25.51'E, 385-400 m. Photograph P. LABOUTE ORSTOM.
- FIG. 13. — *Mursia musorstomia* sp. nov. Loyalty Island, MUSORSTOM 6, stn 415, 20°40.32'S, 167°03.50'E, 461 m. Photograph P. LABOUTE ORSTOM.



