A new species of *Cassida* LINNAEUS from Australia
(Coleoptera: Chrysomelidae: Cassidinae: Cassidini)

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**ABSTRACT.** *Cassida queenslandica*, species new to science, is described from
Queensland, NE Australia. It is close to *Cassida diomma* Boisduval.

Key words: entomology, taxonomy, new species, Coleoptera, Chrysomelidae, Cassidinae, Cassidini, *Cassida*, Australia.

Australian members of the genus *Cassida* LINNAEUS, 1758 were revised recently (BOROWIEC 1990). Only eight species have been recorded from the continent. They form two distinct groups separated morphologically and partly geographically. First group which includes *C. denticulata* BOHEMAN, 1856, *C. mera* GERMAR, 1848, *C. navicella* BOHEMAN, 1862, and *C. sappho* (BOHEMAN, 1862) occurs in SE Australia: South Australia, Victoria, New South Wales, and south Queensland. Species of the group have no close relatives in other zoogeographical regions. The second group which includes *C. aureola* (SCHÜTT, 1815), *C. compuncta* (BOHEMAN, 1855), *C. diomma* BOISDUVAL, 1835, and *C. sexguttata* BOISDUVAL, 1835 occurs mostly in N and NE Australia with southernmost localities in NE New South Wales. The group is close to large and widespread in Paleotropics species related to *Cassida circumdata* HERBST, 1799, often grouped in the subgenus or independent genus *Taiwania* SCHAUM, 1851 (in my opinion division of the genus *Cassida* into subgenera is completely artificial and in my world catalogue of Cassidinae (BOROWIEC 1999) I treated all subgeneric names proposed in the genus as simple synonyms).
In material loaned from Canadian Museum of Nature, Ottawa, Canada, I found a new species of the genus *Cassida* LINNAEUS collected in Queensland Province of north-eastern Australia. It belongs to the group of species close to *C. diomma* BOISDUVAL. Its description is given below.

Colour photos of all Australian *Cassida* species are available in BOROWIEC and ŚWIĘTOJANSKA (2002).

**Cassida queenslandica** n. sp.

**Etymology**
Named after its terra typica, Queensland Province in NE Australia.

**Diagnosis**
Small size, uniformly yellow ventrites, completely regular elytral punctuation, and elytral disc with no pale relief nears this species only to *Cassida aureola* (Sp.). The new species distinctly differs in elytral disc with black band along middle of elytron while in *C. aureola* whole elytra are uniformly yellow. Elytral rows in *C. aureola* are arranged completely regular with intervals between central rows of the same width, while in *C. queenslandica* two rows running along black band are more close together than to rows running along yellow parts of disc. In my key to Australopapuan *Cassida* (BOROWIEC 1990) it runs to the group of species between couplets 7 and 12. *C. compuncta* (BOHEMAN, 1855), *C. diomma* BOISDUVAL, 1835, and *C. sexguttata* BOISDUVAL, 1835 distinctly differ in presence of elytral relief. In all these species dark pattern of elytra (black or reddish) occupies lateral and sutural parts of disc while yellow relief forms irregular band along middle of disc or along subsutural part of disc. In *C. queenslandica* sutural and lateral parts of disc are yellow while black band runs along middle of disc. At first glance *C. astrolabiana* (SPAETH, 1903) from New Guinea is the most similar, but in this species black band is broader than in *C. queenslandica* and runs along sides of the disc. *C. astrolabiana* has also black pattern in anterior part of suture. In *C. astrolabiana* black occupies more than half surface of disc while in *C. queenslandica* yellow predominate.

**Description**
Length 4.3-4.8 mm, width 3.45-3.8 mm, length of pronotum 1.6-1.8 mm, width of pronotum 2.55-2.8 mm, width of elytral disc 2.55-3.0 mm, length/width ratio 1.25-1.26, width/length ratio of pronotum 1.56-1.59. Body short-oval, sides of elytra softly converging posterad (fig. 1).

Pronotum and scutellum yellow. Elytra yellow, between rows 4 and 7 runs black band beginning from humeral callus and ending on slope. Ventrites uniformly yellow. Antennal segments 1-7 yellow, segments 8-11 gradually infuscate, dorsal side of segment 11 almost black.
Pronotum elliptical, with maximum width slightly before middle, sides narrowly rounded, no basal corners. Disc moderately convex, with sparse fine pricks, smooth and shiny. Explanate margin impunctate, smooth and shiny, with honeycomb structure.

Base of elytra distinctly wider than pronotum, humeri distinctly protruding anterad, angulate. Disc regularly convex, with top of convexity in postscutellar point (fig. 2). Postscutellar impressions shallow but distinct, no other impressions. Puncturation of disc completely regular, punctures in rows moderately coarse, distance between punctures mostly narrower than puncture diameter. Puncturation of black band slightly coarser than on pale parts of disc, punctures almost touching each other. Marginal row distinct, its punctures in anterior half of row slightly coarser in posterior half as coarse as in submarginal row. Intervals mostly wider than rows only interval between rows running along the black band very narrow, linear. Marginal interval broad, distinctly wider than latero-marginal intervals. Surface of intervals smooth and shiny. Explanate margin of elytra moderately declivous, in the widest part as wide as 1/6 width of disc, very shallowly punctate, its surface appears slightly irregular. Apex of elytral epipleura bare.

1, 2. Cassida queenslandica: 1 – dorsal, 2 - lateral

TYPE MATERIAL

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REFERENCES