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About generic placement of *Iridomyrmex meinerti* Forel, 1901 (Hymenoptera: Formicidae)

О родовом положении *Iridomyrmex meinerti* Forel, 1901 (Hymenoptera: Formicidae)

D.A. Dubovikoff
Д.А. Дубовиков

St.-Petersburg State University, Faculty of Biology and Soil Sciences, Department of Entomology, Universitetskaya Naberezhnaya, 7/2, Saint-Petersburg 199034 Russia. E-mail: dubovikoff@gmail.com
Санкт-Петербургский государственный университет, биолого-почвенный факультет, кафедра энтомологии, Университетская наб., 7/2, Санкт-Петербург 199034 Россия

Key words: Formicidae, *Iridomyrmex meinerti*, *Turneria*, new combination.

Ключевые слова: Formicidae, *Iridomyrmex meinerti*, *Turneria*, новая комбинация.

Abstract. *Iridomyrmex meinerti* Forel, 1901 revised from synonyms and transferred to the genus *Turneria* Forel, 1895.

Резюме. *Iridomyrmex meinerti* Forel, 1901 восстановлен из синонимов и перенесен в род *Turneria* Forel, 1895.

Iridomyrmex meinerti Forel, 1901 was described by A. Forel from the Bismarck Archipelago (near the New Britain Island, the modern territory of Papua New Guinea) by a single female.

The description made on the German language and not contains illustrations of this species [Forel, 1901]. For a long time this species has remained “forgotten” for the next generations of researchers. In a recent paper [Heterick, Shattuck, 2011], this species has been reduced to synonym with one of the widespread species in Australasia – *Iridomyrmex anceps* (Roger, 1863), the type specimen has not been studied by the authors. As result of my study of the holotype of *Iridomyrmex meinerti*, which stored in the Museum für Naturkunde an der Humboldt-Universität zu Berlin (HM), I state that this species should be restored from synonyms and belongs to the genus *Turneria* Forel, 1895.

Material and methods

Measurements of specimen were made accurate to 0.01 mm, and these were used to calculate various indices: HL – maximum length of head in dorsal view, measured in a straight line from the most anterior point of clypeus to the posteriormost point of occipital margin; HW – maximum width of head in dorsal view behind (above) the eyes; SL – maximum straight-line length of scape from its articulation with condylar bulb to the proximal edge of scape; EL – eye length, measured in full face view; OOD – occiput-ocular distance between posterior margin of eye and posterior extremity of occipital border, measured in full face view; ES – eye spread, distance between innermost edges of eyes, measured in full face view; CI – cephalic index (HW/HL); SI – scape index (SL/HW); OI – ocular index (EL/HL).

Turneria meinerti (Forel, 1901), **comb. n.**
(Color plate 15: fig. 1–4)

Material examined. Holotype, wingless gyne, with labels: «Bismarck archipel., Dahl»; «*Iridomyrmex meinerti* For.»; «*Iridomyrmex meinerti* Forel, type, Bism Arch, 134c (written by Forel's hand)»; «Holotype, *Iridomyrmex meinerti* Forel, 1901, Dubovikoff des.».

Holotype of *Iridomyrmex meinerti* is presented of wingless female with damaged alitrunk (fig. 3), abdomen was glued of its terminal end with propodeum, petiolus was not visible (fig. 4). I rewired abdomen of this specimen so that it petiolus became visible (fig. 3). Thus, it is difficult to carry out full measurements of the specimen. However, based on characters of head and general appearance I can certainly affirm about the belonging of this species to the genus *Turneria*. This species so close to *Turneria arbusta* Shattuck, 1990 (Color plate 15: fig. 5–6) what Steve Shattuck even had suggested about the possible synonymy of these species (personal communication). I made all possible measurements of *Turneria meinerti* (Forel, 1901), **comb. n.** and one female of *Turneria arbusta*, as well as the measurements used and indices converted from an article by Shattuck [1990]. Specimens of these species differ by measurements and indices values. *Turneria meinerti* have considerably longer head and scape and distinguished by the characters of pubescence. I see no reason for the synonymy of these species, and I think these are “good” species. The differences in the measurements and indices of these species are shown in Table 1.

Table 1. Measurements and indices of two species of the genus *Turneria* Forel, 1895 (explanations in the text).

Таблица 1. Промеры и индексы двух видов рода *Turneria* Forel, 1895 (пояснения в тексте).

<i>Turneria meinerti</i> (Forel, 1901), comb. n.	<i>Turneria arbusta</i> Shattuck, 1990
HL – 0.92	HL – 0.88
HW – 0.76	HW – 0.68
SL – 0.60	SL – 0.49
EL – 0.27	EL – 0.29
OOD – 0.39	OOD – 0.33
ES – 0.5	ES – 0.4
CI – (HW/HL) – 0.83	CI – (HW/HL) – 0.77
SI – (SL/HW) – 0.79	SI – (SL/HW) – 0.73
OI – (EL/HL) – 0.29	OI – (EL/HL) – 0.33

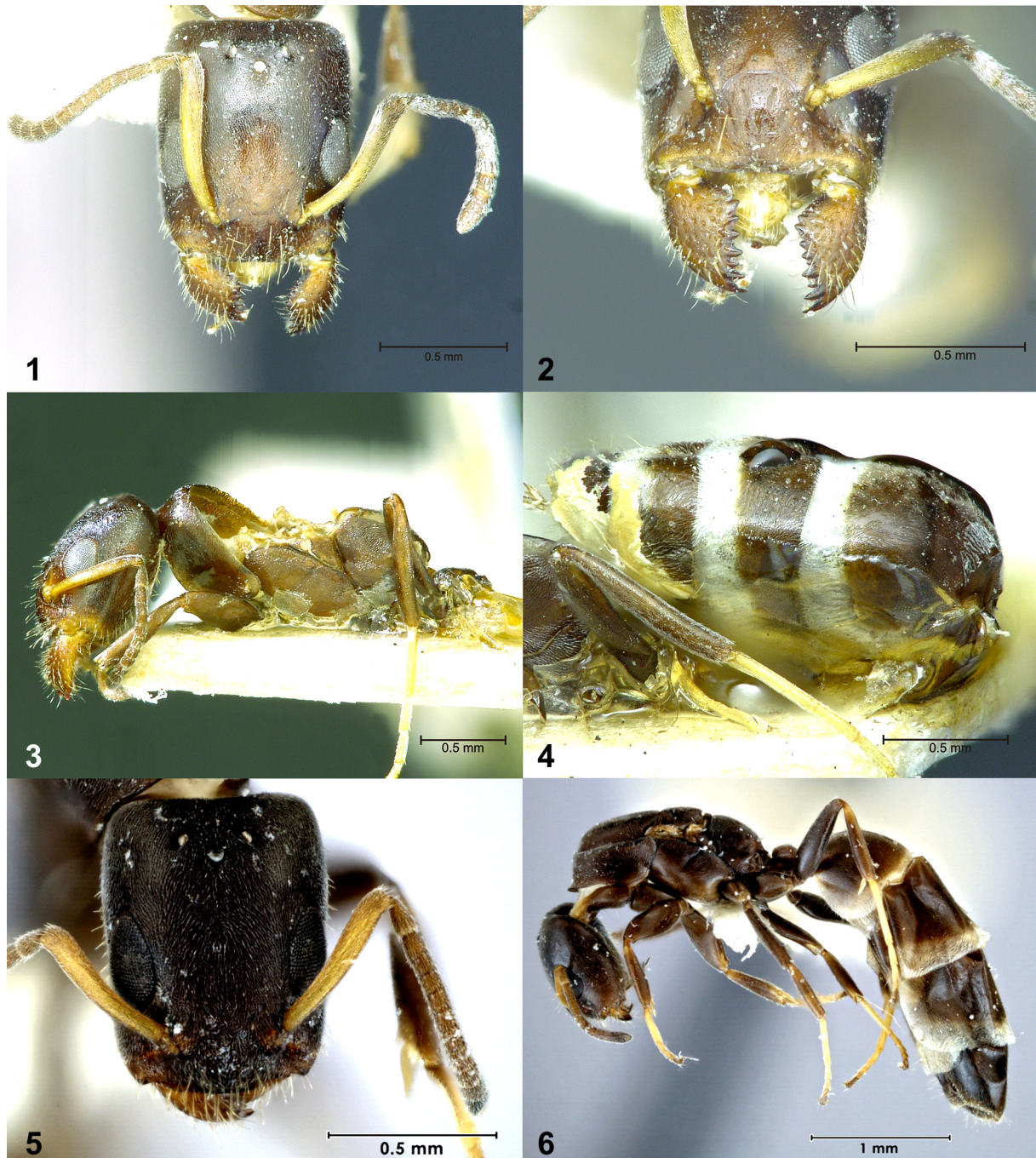


Fig. 1–6. Two species of the genus *Turneria* Forel, 1895.

1–4 – *Turneria meinerti* (Forel, 1901), **comb. n.**; 5, 6 – *Turneria arbusta* Shattuck, 1990; 1, 5 – face, dorsal view; 2 – clypeal area and mandibles; 3, 6 – body, lateral view; 4 – abdomen, lateral view.

Рис. 1–6. Два вида рода *Turneria* Forel, 1895.

1–4 – *Turneria meinerti* (Forel, 1901), **comb. n.**; 5, 6 – *Turneria arbusta* Shattuck, 1990; 1, 5 – голова, вид сверху; 2 – область клипеуса и мандибулы; 3, 6 – вид сбоку; 4 – брюшко, вид сбоку.

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used to obtain full focus image of ants (www.heliconsoft.com).

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