



Fig. 3. Myrmicine ant *Eocenomyrma elegantula* sp. nov., the holotype worker, GPMHU 4404, from the Baltic Amber, late Eocene. A. Photograph in lateral view. B. Explanatory drawing, based on the original photograph; lateral view. [See online edition of the Journal for a color version of this figure.]

*Locality and horizon:* Baltic Amber, late Eocene.

*Diagnosis.*—Total length ca. 4 mm. This new species is characterised by the following apomorphies: frontal carinae and frontal lobes are obscure, but frontal lobes seem to be quite narrow, not extended laterally, frons quite wide; mesosoma long, not constricted behind so that propodeum not much narrower than promesonotum, metanotal groove distinct but wide and shallow (seen in profile), promesonotal suture marked (seen from above); propodeal spines of moderate length, quite wide, stout, blunt at the tips, slightly curved downwards, directed backward at an angle about 40°, slightly divergent (seen from above); petiole distinctly longer than high, with very long peduncle, petiolar node low, long, with slightly declined

posteriorly dorsal plate, but its anterolateral ant posterolateral corners not acute, narrowly rounded; head, mesosoma and waist with fine longitudinal rugosity and reticulation.

*Eocenomyrma elegantula* distinctly differs from the other species of the genus *Eocenomyrma* by the finely rugoso-reticulated head, mesosoma and waist, and by the long petiolar node with the distinct dorsal plate.

*Eocenomyrma rugosostriata* (Mayr, 1868) comb. nov.

Fig. 4; Tables 1, 2.

1868 *Macromischa rugosostriata* sp. nov; Mayr 1868: 84, pl. 4: 83, workers, Baltic Amber.

1893 *Macromischa rugosostriata* Mayr, Dalla Torre 1893: 120.

1907 *Macromischa rugosostriata* Mayr, Handlirsch 1907: 876.

1915 *Nothomyrmica rugosostriata* (Mayr), Wheeler 1915: 61, fig. 25, workers, queen.

1995 *Nothomyrmica rugosostriata* (Mayr), Bolton 1995: 292.

*Material examined.*—Neotype (present designation), ZMHU F-191, worker; 1 worker, F-170, is deposited in the private collection of Manfred Kutscher, Sassnitz, Rugen, Germany; 1 worker, MZ 20234 [together with *Dolichoderus tertiaris* (Mayr, 1868) and *Monomorium* sp. in the same piece of amber], Poland.

*Diagnosis.*—Total length ca. 4 mm. This species is characterised by the following apomorphies: frontal carinae are short, very weakly curved and merge with the rugae, which surround antennal sockets, frons extremely wide, frontal lobes not extended laterally; mesosoma long, constricted behind, so that propodeum much narrower than promesonotum, metanotal groove deep but wide and not abrupt, promesonotal suture marked; pronotum (seen from above) delineated by the distinct carina in front and laterally; propodeal spines of moderate length, wide and stout, slightly curved downwards apically, directed backward, and very feebly divergent (seen from above); petiole distinctly longer than high, with long peduncle, petiolar node with rounded dorsum, without dorsal plate; head dorsum with not coarse, longitudinal, subparallel, slightly sinuous rugae, without reticulation; mesosoma, petiole and postpetiole with longitudinal, slightly sinuous rugosity, without reticulation.

*Eocenomyrma rugosostriata* clearly differs from *E. elegantula* by its much coarser rugosity and lack of the reticulation on the head and mesosoma. Superficially it resembles *E. electrina* and *E. orthospina*, but differs from both by a much wider frons (FI 0.48–0.52 versus 0.39–0.42), by the narrower, not extended, frontal lobes (FLI <1.15 versus >1.20), by the lack of reticulation on the head and mesosoma dorsum, by the mesosoma constricted behind, so that propodeum much narrower than promesonotum. Additionally, it differs from *E. orthospina* by its distinctly downward-curved apically propodeal spines.

*Remarks.*—Mayr (1868: 84) described this species based on two workers from the Baltic Amber [“In der physikalisch-ökonomischen Gesellschaft (Königsberg) 1 Stück (Nr. 218), in Coll. Künow (Justizrath, Deutschland) 1 Stück (Nr. 15)”], and attributed it to the genus *Macromischa* Roger, 1863