

*Cratephialtites* gen.n. (Vespida = Hymenoptera: Ephialtitidae),  
the new genus for *Karataus koiurus* Sharkey, 1990, from  
the Lower Cretaceous of Brazil

*Cratephialtites* gen.n. (Vespida = Hymenoptera: Ephialtitidae),  
новый род для *Karataus koiurus* Sharkey, 1990,  
из нижнего мела Бразилии

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КЛЮЧЕВЫЕ СЛОВА: Vespida, Hymenoptera, Ephialtitidae, нижний мел, Бразилия.

**ABSTRACT.** A new genus *Cratephialtites* Rasnitsyn is described as closely related to *Leptephialtites* Rasnitsyn in the lower apocritan family Ephialtitidae to accomodate the Early Cretaceous species *Karataus koiurus* Sharkey, 1990 from the Lower Cretaceous (Aptian) limestone of the Crato Member, Santana Group, in Ceara State of Brazil.

**РЕЗЮМЕ.** Для *Karataus koiurus* Sharkey, 1990 из нижнемеловых отложений Крато (группа Сантана, апт Бразилии) описан новый род близкий к *Leptephialtites* Rasnitsyn (семейство Ephialtitidae).

*Karataus koiurus* Sharkey has been described [Darling, Sharkey, 1990] as a second species in the genus *Karataus* Rasnitsyn, otherwise known from the Upper Jurassic of Kazakhstan [Rasnitsyn, 1977] and, recently, from the Lower Cretaceous of Spain [Rasnitsyn, Martín-cz-Delclòs, in press]. The placement of *koiurus* was found to disagree with the current understanding of *Karataus* as a typical member of the subfamily Symphytopterinae in the basal apocritan family Ephialtitidae. Diagnostic for that subfamily as defined by Rasnitsyn [1980] are short ovipositor and the far postfurcal position of the forewing crossvein cu-a (far beyond the apex of M+Cu). In contrast, *koiurus* has ovipositor very long and cu-a nearly interstitial (taking place in the very base of cell 1mcu) and hence undoubtedly belongs to subfamily Ephialtitinae. Within Ephialtitinae, *koiurus* is most similar to *Leptephialtites* Rasnitsyn in having the apparently complete wing venation with RS reclined and aligned to M before RS+M, and metasoma thickest subapically. As it is explained below, *koiurus* differs considerably from *Leptephialtites*, so the genus of its own is to be created to house it.

Family Ephialtitidae Handlirsch, 1906

Subfamily Ephialtitinae Handlirsch, 1906

*Cratephialtites* Rasnitsyn, **gen.n.**

Figs 1–3.

**TYPE SPECIES.** *Karataus koiurus* Sharkey in Darling and Sharkey, 1990; Lower Cretaceous of Brazil.

**DIAGNOSIS.** Similar to *Leptephialtites* in having venation apparently complete. RS reclined basally, aligned to M before RS+M, metasoma thickest subapically. Differs from *Leptephialtites* generically in having crossveins 2r-m and 3r-m oblique, somewhat sinuate, and distant for less than their length, and in having hind leg long, with femur incrassate.

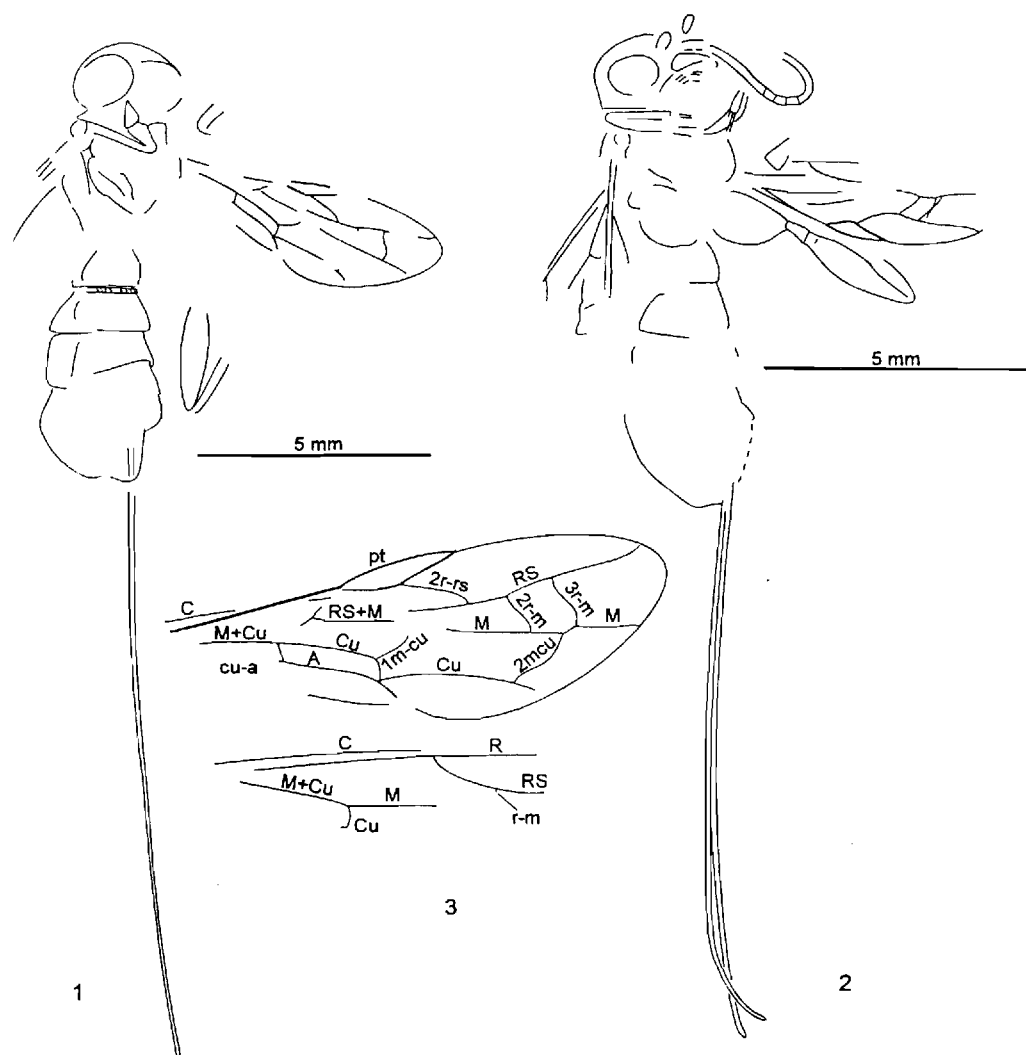
**DESCRIPTION.** Head and eyes large. Antenna moderately thin, with articles longer than wide at about its midlength. Thorax comparatively short and high. Hind coxa, trochanter and femur combined as long as head and thorax combined, femur thick, fusiform. Fore wing with venation not well known but apparently complete (unknown for a<sub>1</sub>-a<sub>2</sub>), RS close to pterostigma basally, directed obliquely basad, 2r-rs reaching pterostigma near its midlength and cell 2rm at about 0.6 its length, cell 2rm about 2 times as long as 3rm and about as long as 1mcu, 3rm higher than long, receiving 2m-cu near its apex. Hind wing with RS before r-m long, directed apicad. Metasoma longer than head and thorax combined, widest at level of about segment 5 or 6, with boundaries between segments 1, 2, and 3 impressed, sternum 2 with transridged belt basally. Ovipositor sheath distinctly longer than body, very slightly bent downward.

**SPECIES INCLUDED.** Type species

**ETYMOLOGY.** Generic name is after the name of the source deposits (Crato Member) and genus *Ephialtites*.

**Acknowledgments**

Dr David A. Grimaldi at the American Museum of Natural History has provided me the type material of *Karataus koiurus*.



Figs. 1–3. *Cratephialtites koiurus* (Sharkey): 1 — holotype AMNH 43269; 2 — paratype AMNH 43268; 3 — reconstruction of wing venation.

Рис. 1–3. *Cratephialtites koiurus* (Sharkey): 1 — голотип AMNH 43269; 2 — паратип AMNH 43268; 3 — реконструкция жилакования.

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