## NOTE ON HEXIDIONIS n.g. AND PENTIDIONIS n.sg.

BY

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**Hexidionis** n. g. and **Pentidionis** n. sg. are created for two groups of trombiculid mites showing an association of very peculiar characters rather unusual for the tribe *TROMBICULINI*.

- A. Hexidionis n.sg., has six of those characters :
  - Scutum with two kinds of punctations: one large and sparse, the other small and more dense. The AM slightly before the ALs line near the anterior margin, slightly prominent.
  - 2. Tarsus, tibia and genu of each leg provided with numerous bars (internal sclerotized rings).
  - 3. Parasubterminala is a short barbed seta.
  - 4. Tibialae I and 2 rather short and grouped in a very apical position.
  - 5. Genuala 2 and 3 also in a very apical position.
  - 6. Claws provided with inconspicuous cilia (onychotriches).
- B. *Pentidionis* n.sg., exhibits five outstanding characters of which some are common to those given above for *Hexidionis*:
  - I. Scutum as in Hexidionis.
  - 2. Tarsus, tibia and genu with numerous bars as in Hexidionis.
  - 3. Tibialae I and 2 as in Hexidionis.
  - 4. Two of the genualae I in a very proximal position.
  - 5. Claws provided with inconspicuous cilia as in Hexidionis.

Some peculiar characters are common to the two groups :

- Presence of two long whip-like masti-setae on tarsus 3, often ciliated near base.
- 2. Galeala always branched.
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- 3. Tarsus of each leg showing often a peculiar profile (more or less sigmoid).
- 4. Palpo-tibial claw trifurcate and cheliceral tricuspid cap normal (no dentation).

On the other hand, the following differential characters are observed:

- I. The gross palpotarsal formula, fT = 7B.S, in *Hexidionis* and 7B in *Pentidionis*.
- 3. Parasubterminala branched in Hexidionis, nude in Pentidionis.
- 3. Genuala 2 and 3 distal in Hexidionis, proximal in Pentidionis.
- 4. Eye lenses contiguous in *Hexidionis*, separated by some epiostracal pleats in *Pentidionis*.

The type species of the new genus Hexidionis is:

Trombicula (Trombicula) jessiemae Gould, 1956. Eight other species are known of which three are new.

The type species of the new subgenus Pentidionis is:

Thrombicula agamae André, 1929, and two other species were described.

## GENERIC DIAGNOSIS:

SIF = 7B or 7B.S-B-3-3III.2'000. Scutum with two kinds of punctations, one large and sparse, the other small and more dense; with convex posterior margin, and with sensillae branched on their distal half; otherwise similar to that of many *Neotrombicula*. Eyes, two pairs. Galeal setae branched. Palpal claw trifurcate. Cheliceral blade with usual tricuspid cap. Two mastitarsalae basally ciliate. Peculiarly shaped tarsi. Tarsal, tibial and genual multibars. Parasubterminala branched in *Hexidionis* s.g., nude in *Pentidionis* s.g. Tibialae of legs I and 2 apical. Leg claws and empodia with cilia (onychotriches).

## SUBGENERIC DIAGNOSIS:

a) *Hexidionis*: SIF = 7-B.S.-B-3-3III.2'000. Leg genuala 2 and 3 inserted distally. Parasubterminala short and branched. Eyes lenses contiguous. America; rodent parasites.

Type species: Hexidionis (Hexidionis) jessiemae (Gould, 1956).

b) Pentidionis: SIF = 7B.S-B-3-3III.2'000. Two of the genualae I are proximal, leg genuala 2 and 3 proximal. Nude parasubterminala. Eye lenses separated by epiostracal pleats. North Africa; on rodents, birds and reptiles.

Type species: Hexidionis (Pentidionis) agamae (André, 1929).

The genus Hexidionis is morphologically close to the genus Neotrombicula.