

# A new species of the genus *Falcileptoneta* KOMATSU (Araneae, Leptonetidae) from Shikoku, Japan

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**ABSTRACT** — A new species of the genus *Falcileptoneta* KOMATSU, 1970 is described under the name *Falcileptoneta ananensis* sp. nov. The species have characteristic structure of male palp, and was collected from under dead leaves on the ground in forest.

**KEY WORDS:** Taxonomy, spiders

## INTRODUCTION

*Falcileptoneta* KOMATSU, 1970 is a genus of the family Leptonetidae and representatives of the genus are generally found on the ground of forests (IRIE & ONO, 2009). The author had an opportunity to examine specimens of the genus from Anan-shi, Tokushima Pref., Shikoku, Japan. After careful examination, these specimens were regarded as an undescribed species. In this paper, I describe a new species of the genus based on the specimens.

The abbreviations used in this paper are as follows: ALE, anterior lateral eye; AME, anterior median eye; PE, posterior eye; OA, ocular area; Cp, length of clypeus. Eye size means length of long axis of an eye.

All the type specimens used for this study are deposited in the arachnid collection of the National Science Museum of Nature and Science, Tokyo (NSMT) and Kitakyushu Museum of Natural History and Human History (KMNH).

## Genus *Falcileptoneta* KOMATSU, 1970

### *Falcileptoneta ananensis* IRIE sp. nov.

[Japanese name: Anan-mashiragumo]

(Figs. 1-5)

*Type series.* Holotype: ♂ (NSMT-Ar14556), Oi (Shikoku-no-michi), Oi-cho, Anan-shi, Tokushima Pref., Shikoku, Japan, 29-X-2013, H. BANDO leg. Paratype: ♀ (NSMT-Ar14557), Fuke (Omatsu Daigongen), Kamo-cho, Anan-shi, Tokushima Pref., Shikoku, Japan, 29-VIII-2013, H. BANDO leg.; 5♀1♂ (KMNH), Mt. Tairyuji-san, Kama-cho, Anan-shi, Tokushima Pref., 29-VIII-2013, H. BANDO leg.; 1♀ (NSMT), Kainokawa, Kamo-cho, Anan-shi, Tokushima Pref., 29-VIII-2013, H. BANDO leg.

*Description.* Measurements (♂ holotype / ♀ paratype; in mm). Body length 1.76/1.45, carapace length 0.83/0.65, width 0.63/0.55, abdomen length 0.93/0.80, width 0.57/0.60. Lengths of legs and palps as shown in Table 1. Eyes: AME 0.07/0.07, ALE 0.07/0.07, PE 0.07/0.05; distance between eyes: ALE-ALE 0.11/0.09, ALE-PE 0.03/0.03; OA length 0.23/0.16, width 0.17/0.15, Cp 0.10/0.07.

Male (holotype). Carapace dark yellowish brown, with both sides dark brown, hairless. Median furrow brown, linear. Cervical grooves and radial furrows distinct and brown. All the eyes same in size; major axes of ALEs convergent behind; PEs touching each other, their axes parallel (Fig.5). Chelicera yellowish brown, with nine teeth on promargin of fang furrow, four teeth on retromargin (Fig.3). Maxillae dark yellowish brown, narrowing at the anterior part; labium dark yellowish brown, slightly wider than long; sternum dark yellowish brown, shield-shaped and almost as long as wide (Fig.4). Legs light yellowish brown, leg formula 1,4,2,3.

Male palp (Figs.1-2): Femur > tibia > tarsus > patella in length. Tibia with two long trichobothria on the dorsal surface and two developed apophyses on the apical part; the main apophysis conic and the second one simple spine (Fig.2). Embolus and projections of bulb as shown in Fig.1. Abdomen haired, brown with four light yellowish brown horizontal bands, oval in shape and longer than wide.

Female (paratype). Similar to the male in coloration and general features. Body slightly shorter than that of the male holotype. Palp longer than the carapace, femur > tarsus > tibia > patella in length, apical margin of patella with a dorsal spine 0.15mm long.

*Distribution.* Japan, Shikoku (Tokushima Prefecture).

*Etymology.* The specific name is derived from the name of the city of the type locality.

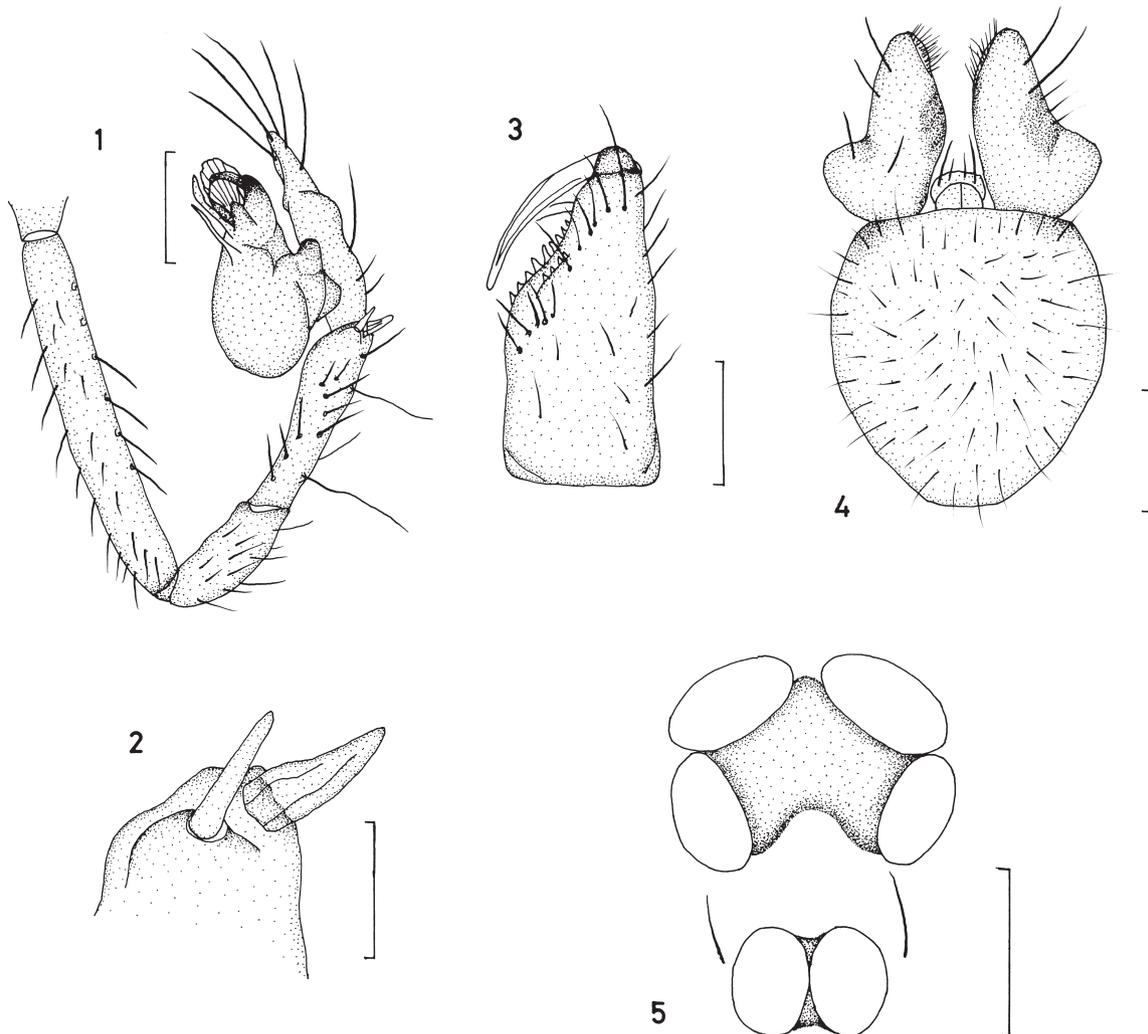
*Remarks.* This new species is similar to *Falcileptoneta striata* (Oi, 1952) from Kochi Pref., Shikoku in the shape of bulb of male palp, but is quite different in the shape of the apophysis of male palpal tibia. This new species were collected from under dead leavers on the ground in forest and regarded as an epigeal spider.

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Figs. 1-5 *Falcileptoneta ananensis* IRIE sp. nov., male, holotype (NSMT-Ar14556). 1, Left male palp, retrolateral view; 2, tibial apophyses of male palp, retrolateral view; 3, left chelicera, ventral view; 4, maxillae, labium and sternum; ventral view; 5, ocular area, dorsal view. (Scales: 1, 3–4, 0.2mm; 2,5, 0.1mm.)

Table 1. Measurements of palp and legs of *Falcileptoneta ananensis* IRIE sp. nov. (♂ holotype/♀ paratype: in mm ).

	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
Palp	0.63/0.33	0.28/0.13	0.35/0.20	-	0.30/0.30	1.56/0.96
LegI	1.47/1.00	0.23/0.17	1.57/1.33	1.27/0.73	0.90/1.00	5.44/4.23
LegII	1.10/0.73	0.20/0.20	1.23/0.80	0.87/0.57	0.67/0.53	4.07/2.83
LegIII	0.90/0.70	0.17/0.17	0.97/0.63	0.77/0.53	0.50/0.47	3.31/2.50
LegIV	1.17/1.03	0.30/0.17	1.27/0.97	1.17/0.70	0.90/0.63	4.81/3.50