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NEW SPECIES OF *DICTYOPHORIDAE* (*HOMOPTERA*) FROM MANCHOUKUO AND THE NEIGHBOURING COUNTRIES

By

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(松村松年)

In 1939 and 1940, the author had a good chance to collect insects in Manchoukuo under a great help of the South Manchuria Railway Company. Among the collection the following Dictyophorid-insects are very interesting to be treated. On this occasion he will also describe a new species which was collected in Colombo by the author.

The author's sincere gratitude must be expressed to the South Manchuria Railway Company for its kind assistance, and also to Dr. JÔZÔ MURAYAMA, Dr. HIROMICHI KÔNÔ, Mr. SHÛJIRÔ HIRAYAMA and Mr. S. UCHIDA who assisted him in collecting the present material.

The following species are found in Manchoukuo and the neighbouring countries :

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| 1. <i>Dictoptera similis</i> SCHUM. | Formosa. |
| 2. <i>Saigona gibbosa</i> MATS. | Formosa; China. |
| 3. <i>S. ishidae</i> MATS. | Japan; Manchoukuo. |
| 4. <i>S. sinicola</i> MATS. (n. sp.) | China. |
| 5. <i>S. ussuriensis</i> LETH. | Ussuri. |
| 6. <i>Orthopagus elegans</i> MELICH. | Formosa. |
| 7. <i>O. helios</i> MELICH. | Formosa. |
| 8. <i>O. lunulifer</i> UHL. | Japan. |
| 9. <i>O. splendens</i> GERM. | China; E. India. |
| 10. <i>Putala lewisi</i> DIST. | Japan. |
| 11. <i>Thanatodictya fuscovittata</i> STÅL
(= <i>Dictyophora fuscovittata</i> MATS.) | Formosa. |
| 12. <i>Dictyophora cumingi</i> DIST.
(= <i>D. maculata</i> MATS.) | Japan; E. India. |
| 13. <i>D. formosicola</i> MATS. (n. sp.) | Formosa. |

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| 14. | <i>Dictyophora futana</i> MATS. (n. sp.) | China. |
| 15. | <i>D. longirostrata</i> KATO | Formosa. |
| 16. | <i>D. manchuricola</i> MATS. (n. sp.) | Manchoukuo; China. |
| 17. | <i>D. okinawensis</i> MATS. | Okinawa. |
| 18. | <i>D. nekkana</i> MATS. (n. sp.) | Manchoukuo; China. |
| 19. | <i>D. pallida</i> DON. | China; E. India. |
| 20. | <i>D. patruelis</i> STÅL | Japan; Formosa; China. |
| | (= <i>D. tengi</i> MATS.) | |
| 21. | <i>D. sinica</i> WK. | Japan; China. |
| 22. | <i>D. tomon</i> MATS. (n. sp.) | Manchoukuo. |
| 23. | <i>Sinodictya</i> (n. g.) <i>tukana</i> MATS. (n. sp.) | China; Singapore. |
| 24. | <i>Tenguna watanabei</i> MATS. | Formosa. |
| | (= <i>Centromera formosana</i> KATO) | |
| 25. | <i>Togaphora</i> (n. g.) <i>hokuryonis</i> MATS. (n. sp.) | Manchoukuo. |
| | (=? <i>Centromera manchurica</i> KATO) | |
| 26. | <i>Tenguella mitsuhashii</i> MATS. | Japan. |

Descriptions of new Species

Dictyophora formosicola n. sp.

Resembles *D. tomon* MATS., but differs from it as follows:

♀. Vertex at the extreme apex with no brownish speck, the frontal lateral keels not becoming narrower towards to each other the apex, the clypeus at the apex being infuscated. Elytra somewhat smoked, the veins darker than the ground colour, the cross veins being smoked; stigma scarcely darker than the ground colour. Thorax with no metapleural marking. The anterior and middle femora with brownish stripes and the posterior one with black longitudinal stripes. Abdomen with a broad fuscous dorsal stripe, in its middle with a paler longitudinal narrow stripe; on the lateral sides with each a longitudinal series of fuscous spots, the third ventral segment with a fuscous patch.

♂. Genital segment concolorous with the venter, the anal tube just below the anal style broadly black and the anal style at the apex black, both of which are decorated with brownish hairs.

Length: 15 mm. including elytra; head 3.5 mm.

Hab.: Formosa; one female specimen was collected at Taikokan (14. IV. 1925) by the author.

Dictyophora futana n. sp.

♂. Fulvous. Vertex 1.5 times as long as the pronotum and scutellum

taken together, the lateral keels scarcely converging towards the apex, the middle keel obsolete, between the eyes with 2 short longitudinal brownish stripes; at the extreme apex with a brownish speck; frons with 2 reddish orange stripes between the keels, the lateral keels merely reaching to the middle of the eyes; clypeus fuscous, the keels being paler. Pronotum with the middle keel distinct. Scutellum with green keels, the valleys between these keels scarcely coloured with red. Elytra hyaline, somewhat smoked; veins concolorous with the ground colour; netted veins and stigma brownish, the latter with 3 veins; the apical meshes about 16. Thorax with no pleural marking. Abdomen greenish, the venter in the middle broadly infuscated, each hind margin of the segments being narrowly white; the dorsal part somewhat smoked, with 5 longitudinal series of white specks. Legs brownish striped, the hind tibia with 5 spines.

♀. The last ventral segment pale fulvous; genital plates about twice as long as the foregoing segment, towards the apices somewhat smoked; the anal tube white, the anal style fuscous.

Length: 12 mm. including elytra: head 2.5 mm.

Hab.: China; one male specimen was collected at Wuning (Kaingsi) (10. VIII. 1936) and presented to the author for identification by the Fan Memorial Institute, Biol., Peking.

This species resembles *D. pallida* DON., but may easily be distinguished from the latter in having 2 brownish longitudinal stripes between the eyes.

***Dictyophora manchuricola* n. sp.**

Closely allied to *D. pallida* DON., but differs from the latter in the following points:

Body olivaceous green. Vertex much longer than the pro- and mesonotum taken together, the longitudinal keels green, with no orange-red longitudinal stripes; Extreme apex of the frontal lateral keels with 2 black specks, the valleys between the keels orange-red, the lateral keels not reaching to the ocelli. Clypeus at the apex fuscous brown. Pronotum with the keels green, but with no orange-red stripes. Scutellum with green keels, the lateral ones not converging towards the anterior margin. Elytra hyaline, the longitudinal veins fulvous, the netted veins fuscous, the cross veins not smoked; stigma lanceolate, fuscous, with 4 veins, the apical meshes being about 16. Prosternum and 2 pleural patches black, the metasternum and legs grayish white, the latter strongly striped with black. Abdomen greenish, with 5 longitudinal series of white specks on the dorsum, the venter fuscous by the male, greenish by the female, the latter with 2 black patches in the middle, the last segment white,

in the middle with a fuscous marking.

♂. Genital segment fuscous, the last ventral segment of the hind margin paler, the genital plates distinctly longer than the last segment, the anal tube at the lower margin white.

♀. Genital plates white, at the hind margin infuscated, with a black spine; anal tube white, the posterior margin and the anal style fuscous.

Length: 12–13 mm. including elytra; head 3.5 mm.

Hab.: Manchoukuo and China; numerous specimens were collected at Nekka (15–25. VIII. 1940) by the author. One female specimen was presented to the author by the Fan Memorial Inst. Biol. Peking, and one male specimen by the Agricultural Experiment Station of Kosyu-rei.

***Dictyophora nekkana* n. sp.**

Green, with no marking. Head somewhat upturned, longer than the pro- and mesonotum taken together. The lateral keels of the vertex towards the apex distinctly converging, the middle keel conspicuous between the eyes; at the apex with 3 black specks; the lateral keels of the frons reaching to the clypeal suture; clypeus concolorous with the ground colour. Pronotum in the disk with 2 dimples. Scutellum with the lateral keels scarcely converging towards the anterior margin. Elytra concolorous with the veins, the costal and posterior margins narrowly whitish yellow; stigma obsolete, the netted veins numerous, at the apical margin with about 16 meshes. Rostrum striped with fuscous colour. Posterior femur with 3 fuscous specks at the extreme apex; posterior tibiae with 6 spines, the anterior tarsi fulvous. Thorax with no pleural patch.

♂. Genital plates as those of the *D. europaea* L., about twice as long as the last ventral segment, the lateral hooks and the anal style at the apices black.

♀. Ventral segment 6 at the hind margin roundly excavated, the anal tube below with an acutangular incision, the anal style at the apex black.

Length: 11–13 mm., including elytra; head 3.5 mm.

Hab.: Manchoukuo; numerous specimens were collected in Shôtoku, Kohokko and Onsenji by the author; 2 (1 ♂, 1 ♀) specimens were collected by T. INUKAI at Wanfu (29. VIII. 1938) and 4 (2 ♂ ♂, 2 ♀ ♀) specimens were presented to the author by the Fan Memorial Inst. Biol., Peking.

This species resembles somewhat *D. europaea* L., but the head is upturned and longer than that of the latter, the elytra having strongly netted veins.

***Dictyophora tomon* n. sp.**

Resembles *D. pallida* DON., but differs from it as follows:

♀. Vertex on the lateral sides towards the apex somewhat narrower, at the extreme apex with a small shining brownish spot; orange-red stripes only visible between the eyes; the same coloured stripes in the face brighter, reaching to the apex. Pro- and mesonotum with orange-red stripes much brighter; metapleural black spot with about 5 transverse ridges. Elytra smoked, the veins brownish, at the costa towards the base greenish; stigma pale brownish, with 4 veins, the apical meshes about 18. Sternum yellowish; abdomen greenish, on both sides with no marking. Legs with concolorous anterior coxae. Genital segment whitish gray, the ventral segment 6 truncated behind, at the bottom of the excavated region fuscous, the genital plates somewhat quadrate, at the hind margin narrowly infuscated, the anal tube at the hind margin and the anal style fuscous.

Length: 15 mm. including elytra; head 3.5 mm.

Hab.: Manchoukuo; one female specimen was collected at Tomonrei (19. VIII. 1939) by the author.

***Dictyophora colombonis* n. sp.**

Differs from *D. pallida* DON. in the following points:

♀. Head at the extreme apex with only a black speck, towards the apex the lateral keels distinctly converging, with no reddish stripes except between the eyes, the keels being concolorous with the body. Pro- and mesonotum reddish yellow, with no distinct orange stripes, the keels being paler. Elytra with the veins pale fulvous; stigma brown, lanceolate, with 4 veins. Coxae not infuscated, the longitudinal black stripes narrower, and not distinct. Abdomen with only a fuscous patch at the last ventral segment.

♀. Genital segment whitish fulvous, the anal tube at the hind margin narrowly fuscous and the anal style at the apex infuscated.

Length: 14 mm. including elytra; head 4 mm.

Hab.: E. Indies; one female specimen was collected at Colombo (10. IX. 1903) by the author.

***Togaphora* (n. g.) *hokuryonis* n. sp.**

(=? *Centomera manchurica* KATO*)

Vertex about 2.5 times as long as broad; face with the valleys between the keels yellowish, distinctly converging towards the clypeus, being broadest

*Three Col. Ill. Ins. Jap. III, Pl. II, f. 5 (1933).

between the eyes. Elytra with the concolorous veins, the stigma pale green. The posterior femora at the extreme apices with short brownish spinous teeth.

♂. Genital plates about twice as long as broad, at the apices rounded, at the upperside near the middle distinctly incised, the apices of the lateral appendages and the dorsal spines black; anal tube longer than broad, at the hind margin not incised; anal style at the apex black.

♀. The last ventral segment at the hind margin roundly incised, on its sides somewhat triangularly produced. Genital plates longer than broad, the anal tube at the hind margin acutely incised, the anal style at the extreme apex fuscous, with short brownish hairs.

Length: 10–12 mm. including elytra.

Hab.: Manchoukuo; 10 (3 ♂♂, 7 ♀♀) specimens were collected at Hokuryo (Hoten) by the author.

***Togaphora* n. g.**

Differs from *Dictyophora* GERM. in the following points:

The lateral keels of the vertex before the eyes distinctly sinuated, between the eyes with a longitudinal groove along the innerside of the lateral keels; the lateral frontal edges strongly expanded, so that they are distinctly visible from above; the lateral keels of the frons terminated just before the clypeal suture, converging downwardly, being broadest between the eyes. Pronotum with 3 longitudinal keels nearly parallel, the lateral ones being connected with the anterior edge keel; in the disk with 2 large dimples; the upper keel behind the eye connected with the anterior edge keel. Scutellum with the lateral keels somewhat converging towards the anterior margin. Elytra with about 5 series of meshes on the apical third; stigma obsolete with 3 veins. Hind tibia with 5–6 spines.

Genotype: *Togaphora hokuryonis* MATS.

***Sinodictya* (n. g.) *tukana* n. sp.**

Testaceous yellow (perhaps green in the natural condition). Elytra hyaline, with the veins testaceous, the apical series of meshes being 6; stigma pale greenish. Rostrum at the apex fuscous. Legs with the apical tarsal joints brownish, the posterior femur at the extreme apex with a fuscous speck.

♂. Genital plates about twice as long as broad, at the apices rounded, the lateral appendages at the apices black, the dorsal hook fuscous; anal tube narrow, about twice as long as broad; anal style at the apex fuscous.

♀. Ventral segment 6 at the hind margin roundly excavated; genital plates narrower towards the apices; anal tube nearly as long as broad, at the

hind margin scarcely incised; anal style at the apex infuscated.

Length: 15 mm. including elytra.

Hab.: China; one female specimen was collected at Wuning (Kiangsi) (3. IX. 1936) by S. K. TENG and presented to the author for identification by the Fan Memorial Inst. Biol., Peking; one male was collected at Singapore (15. X. 1903) by the author.

***Sinodictya* n. g.**

Resembles *Togaphora* MATS., but differs from it as follows:

Head somewhat longer than broad between the eyes, the middle keel distinct to the apex, between the eyes with 2 low, oval elevations; frons about 3 times as long as broad, the conical enclosure made of the lateral keels being broadest above the eyes, gradually becoming narrower towards the clypeal suture. Rostrum longer, reaching to the 2nd abdominal segment. Pronotum in the disk deeply excavated, the 3. keels almost obsolete, the middle one being placed in the bottom of the excavation. Tegula with a transverse keel. Elytra with much longer stigma, including 6 cells, the apical meshes being longer than the others. The posterior tibiae with 5 spines.

Genotype: *Sinodictya tukana* MATS.