



# *Entomofauna*

ZEITSCHRIFT FÜR ENTOMOLOGIE

Band 18, Heft 8: 81-84

ISSN 0250-4413

Anselden, 31. März 1997

## **Redescription and Taxonomic Considerations of *Triaspis complanellae* (HARTIG, 1847) (Hymenoptera, Braconidae, Calyptinae)**

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### **Abstract**

Lectotype designation and redescription of *Triaspis complanellae* (HARTIG, 1847) are presented. The species is very near to *T. flavipes* (IVANOV, 1899), the latter species is supposed to be a junior synonym of *T. complanellae*. *T. complanellae* and *T. flavipes* hardly differ from each other in the sculpture of their third tergite. HARTIG's (1847) two species, *Sigalphus curculionum* and *S. tenthredinum*, are recognized as junior synonyms of *Eubazus* (*Brachistes*) *tuberculator* (ZETTERSTEDT, 1838), **syn. nov.** With 9 original figures.

### **Zusammenfassung**

Redeskription und taxonomische Überlegungen über *Triaspis complanellae* (HARTIG, 1847) (Hymenoptera, Braconidae, Calyptinae). - Festlegung des Lektotypus und Wiederbeschreibung von *Triaspis complanellae* (HARTIG, 1847) werden gegeben. Die Art steht *T. flavipes* (IVANOV, 1899) sehr nahe, letztere ist vermutlich ein junior Synonym von *T. complanellae*. *T. complanellae* und *T. flavipes* unterscheiden sich kaum, höchstens durch die Skulptur des dritten Tergites. Zwei Artnamen von HARTIG (1847), *Sigalphus curculionum* und *S. tenthredinum*, werden als junior Synonyme von *Eubazus* (*Brachistes*) *tuberculator* (ZETTERSTEDT, 1838) erkannt, **syn. nov.** Mit 9 Originalabbildungen.

### **Introduction**

The German forest engineer and naturalist, Theodor HARTIG (1805-1880), has described three *Sigalphus* species, *S. complanellae*, *S. curculionum* and *S. tenthredinum*, in 1847. Since their description all three species remained little known or forgotten (sp. oblit.). FAHRINGER (1934: 395) was the first author who recognized that *S. complanellae* represents the genus *Triaspis* HALIDAY. *S. curculionum* and *S. tenthredinum* were

assigned in the genera *Eubazus* NEES (SHENEFELT 1970: 233) and *Triaspis* HALIDAY (FAHRINGER 1934: 405), respectively. Recently I had the opportunity (see acknowledgement) to examine and to range them in their proper taxonomic position, in the genus *Eubazus* subgen. *Brachistes*.

***Triaspis complanellae* (HARTIG, 1847) (Figs 1-6)**

*Sigalphus complanellae* HARTIG, 1847: Ber. Naturw. Ver. Harzes, p. 17, ♂, type locality: Harz Mts in Germany, lectotype ♂ (present designation), in Zoologische Staatssammlung München, examined.

*Triaspis complanellae*: SNOFLAK 1953: 297, ♂ (in key); SHENEFELT 1970: 287 (literature up to 1962).

*Sigalphus flavipes* IVANOV, 1899: Trudy Obsch. Estest. imp. Khar'kov Univ. 33: 286, ♀, type locality: Kupyansk area, Ukraine. Syntype series supposedly lost (TOBIAS 1971: 221). SNOFLAK 1953: 298 (in key) and 340 (♀♂, redescription); SHENEFELT 1970: 289 (literature up to 1954); TOBIAS 1971: 221. - ? jun. syn.

Description of the lectotype ♂ of *S. complanellae* HARTIG \*:

Body 2 mm long. Head in dorsal view (Fig. 1) transverse, almost twice as broad as long, eye 1.3 times as long as temple, latter constricted, occiput carinated and hardly excavated. Ocelli small, POL = OOL. Eye in lateral view 1.68 times as high as wide and slightly wider than temple (Fig. 2, see arrows). Distance between tentorial pits equal to shortest distance between tentorial pit and eye. Head polished. - Antenna damaged, right antenna with 19 and left antenna with 16 antennomeres (antenna supposedly with 20 or 21 antennomeres). First flagellomere 3.5 times and 19th flagellomere, 1.55 times as long as broad apically.

Mesosoma in lateral view 1.57 times as long as high. Notaulix evenly deep, finely crenulated. Mesonotum, scutellum and mesopleuron smooth and shiny, propodeum rugose. - Hind femur 4.1 times as long as broad medially (Fig. 3). Hind tarsus somewhat shorter than hind tibia. Hind basitarsus as long as hind tarsomeres 2-3 combined.

Forewing about as long as body. Pterostigma (Fig. 4) 2.76 times as long as wide, issuing radial vein from its middle, r1 half as long as width of pterostigma, r2 ending far before tip of wing, second section of metacarp less than half as long as first section.

Carapace as long as mesosoma and at second tergite as broad as mesosoma between tegulae. First tergite 1.8 times as broad behind as long medially, second tergite transverse and 1.9 times as broad basally as long medially, both tergites densely and longitudinally striated with little anastomoses, striation of first tergite somewhat stronger than that of second tergite (Fig. 5). Third tergite polished, laterally with very fine to fine stria-rugulosity (Fig. 5). Carapace in lateral view somewhat flattened (? individual modification), 3.7 times as long as high medially (Fig. 6).

Female and host unknown.

Distribution: Germany.

*Triaspis complanellae* (HARTIG) stands nearest to *T. floricola* (WESMAEL, 1835) considering its (almost) smooth and shiny third tergite. The distinction between the males of the two species is restricted to a few features keyed below:

- 1 Head in dorsal view transverse, almost twice as broad as long; temple in dorsal view constricted, eye 1.3 times as long as temple (Fig. 1). Pterostigma issuing radial vein from its middle, r1 half as long as width of pterostigma (Fig. 4). Third tergite polished, laterally with very fine to fine stria-rugulosity (Fig. 5) ... *T. complanellae* (HARTIG)

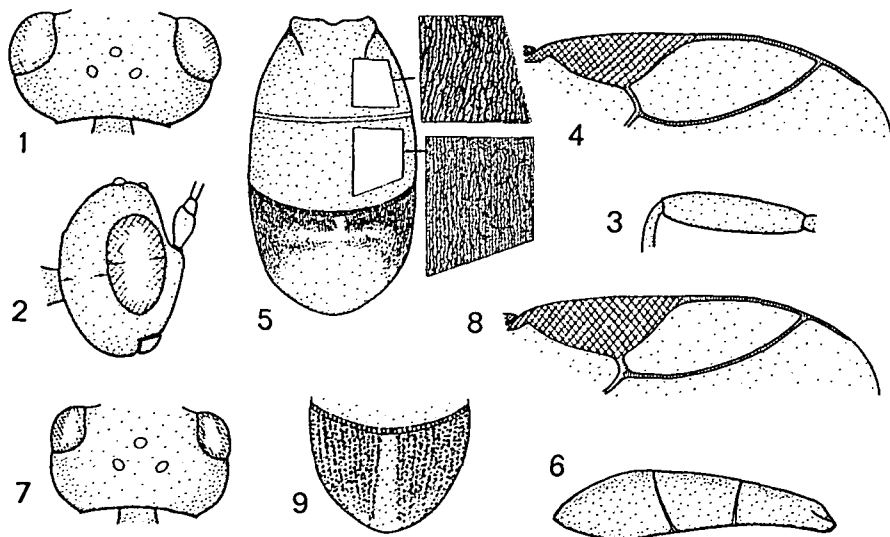
\*) Abbreviations: OOL = shortest distance between hind ocellus and eye; POL = shortest distance between hind two ocelli; r1 and r2 = first and second section of the radial vein.

- Head in dorsal view subcubic, 1.62 - 1.68 times as broad as long; temple in dorsal view rounded and 1.2 - 1.3 times as long as eye (Fig. 7). Pterostigma issuing radial vein somewhat distally from its middle, r1 distinctly less than half as long as width of pterostigma (Fig. 8). Third tergite entirely polished. ♂: (1.8) 2 - 2.6 mm. .... *T. floricola* (WESMAEL)

Taxonomic remark: The male lectotype of *T. complanellae* deviates exclusively in the sculpture of the third tergite from the specimens identified as *T. flavipes*: third tergite of *T. complanellae* is polished except its very fine to fine lateral striate-rugulosity (Fig. 5), on one hand, and that (of females and males) of *T. flavipes* is striate-rugose in a variable size and with a medio-longitudinal polished streak (Fig. 9), on the other hand. The form *T. complanellae* is present only by the male lectotype and its female is unknown so far, consequently the conspecificity of *T. complanellae* and *T. flavipes* may be only supposed and not ascertained; this possible synonymy is indicated in the above species citation of *T. flavipes* with a question-mark (? jun. syn.). More female and male specimens of *T. complanellae* are needed to decide unambiguously the taxonomic position of the forms *T. complanellae* and *T. flavipes*.

### *Eubazus (Brachistes) tuberculator* (ZETTERSTEDT, 1838)

*Bracon tuberculator* ZETTERSTEDT, 1838: Insecta Lapponica, p. 401, ♀, type locality: Lapland in Finland or Sweden, lectotype ♀ in Zoological Museum Lund. PAPP 1994: 307 (lectotype designation, identity: *Eubazus [Brachistes] tuberculator* ZETTERSTEDT).



Figs 1-6. *Triaspis complanellae* (Hartig, 1847): 1) head in dorsal view; 2) head in lateral view; 3) hind femur; 4) distal part of right fore wing; 5) carapace with indication of sculpture; 6) carapace in lateral view.

Figs 7-8. *Triaspis floricola* (WESMAEL, 1835): 7) head in dorsal view; 8) distal part of right fore wing.

Fig. 9. *Triaspis flavipes* (IVANOV, 1899): third tergite.

- Sigalphus curculionum* HARTIG, 1847: Ber. Naturw. Ver. Harzes, p. 16, ♀, type locality: Harz Mts in Germany, lectotype ♀, 2 ♀♀ paralectotypes (designated by VAN ACHTERBERG 1993), in Zoologische Staatssammlung München, examined. **Syn. nov.**
- Sigalphus tenthredinum* HARTIG, 1847: Ber. Naturw. Ver. Harzes, p. 17, ♀, type locality: Harz Mts in Germany, lectotype ♀ (designated by VAN ACHTERBERG 1993), in Zoologische Staatssammlung München, examined. **Syn. nov.**
- Brachistes atricornis* RATZBURG, 1848: Ichn. Forstins. 2: 28, ♀♂, type locality: Germany, syntype series lost. SHENEFELT 1970: 231 (literature up to 1964). **Syn. by PAPP 1994: 307.**

The type specimens of HARTIG's two *Sigalphus* species cited above are in good condition and their designation will be published by VAN ACHTERBERG within his revision of the *Eubazus semirugosus*-complex. On the basis of the examination and comparison of the type series of HARTIG's *S. curculionum* and *S. tenthredinum* as well as ZETTERSTEDT's *Bracon tuberculator* the conspecificity of them was unambiguously established. The synonymy of *Brachistes atricornis* RATZBURG with *Bracon tuberculator* has been recognized by me and published in my earlier paper (PAPP 1994: 307).

### Acknowledgement

I am much indebted to Dr. E. HAESELBARTH, Zoologische Staatssammlung München, who was kind enough to place at my disposal the type series of HARTIG's three species studied in the present paper.

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Druck, Eigentümer, Herausgeber, Verleger und für den Inhalt verantwortlich:  
Maximilian SCHWARZ, Konsulent für Wissenschaft der O.O. Landesregierung,  
Eibenweg 6, A-4052 Anselden

Redaktion: Erich DILLER, ZSM, Münchhausenstrasse 21, D-81247 München, Tel. (089) 8107-159  
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Zeitschrift/Journal: [Entomofauna](#)

Jahr/Year: 1997

Band/Volume: [0018](#)

Autor(en)/Author(s): Papp Jenő

Artikel/Article: [Redescription and Taxonomic Considerations of \*Triaspis complanellae\* \(HARTIG, 1847\) \(Hymenoptera, Braconidae, Calyptinae\). 81-84](#)