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Systematic and Synonymic Notes Upon Certain Species of *Dermestidae*
(*Coleoptera*)

Notatki systematyczne i synonimiczne o niektórych gatunkach z rodziny
Dermestidae (*Coleoptera*)

Систематические и синонимические заметки о некоторых видах из семейства
Dermestidae (*Coleoptera*)

[With 26 Text-figures]

The present notes result from the examination of the holotype of *Anthrenus fasciatus* THUNBERG, 1795 kept in the Institute of Zoology of the Uppsala University, the types of *Anthrenus fasciatus* HERBST, 1797 and *A. adspersus* HERBST, 1797 preserved in the Zoological Museum of Humboldt University in Berlin, the holotype of *Anthrenus maculifer* REITER, 1881 kept in the Institute of Zoology of the Polish Academy of Sciences in Warszawa, and of several types of species described by M. PIC, E. REITER, A. CHOBAUT and L. KOCHER and kept in the Natural History Museum in Paris.

For being able to study the material mentioned, I wholeheartedly thank Prof. Dr. B. KULLENBERG of Uppsala, Prof. Dr. K. DELKESKAMP from Berlin and Dr. G. COLAS from Paris.

1. *Attagenus fasciatus* (THUNBERG, 1795)

During my stay in Uppsala, in April, 1963, I was able to examine the holotype of *Anthrenus fasciatus* THUNBERG, 1795:105. It turned out that this species belongs to the genus *Attagenus* LATR. and is identical with *Attagenus gloriosae* (FABRICIUS, 1798:76). Accordingly, the synonymy of the species is as follows:

Attagenus fasciatus (THUNBERG, 1795:105)

Syn.: *Anthrenus fasciatus* THUNBERG, 1795:105.

Anthrenus gloriosae FABRICIUS, 1798:76, **syn. nov.**

Attagenus annulifer CASTELNAU, 1840:36, **syn. nov.**

Trogoderma subfasciatum CHEVROLAT, 1863:617, **syn. nov.**

Attagenus plebeius SHARP, 1885 : 147, **syn. nov.**

*Attagenus gossypiatu*s FAUVEL, 1903 : 335 (nomen nudum).

2. *Attagenus wollastoni* **nom. nov.**

As the species named *fasciatus* THUNBERG, 1795 has been transferred to the genus *Attagenus* LATR., a new name for the younger homonym: *Attagenus fasciatus* WOLLASTON, 1864 : 160 should be introduced. Thus, the synonymy of the species is as follows:

Attagenus wollastoni **nom. nov.**

Syn.: *Attagenus fasciatus* WOLLASTON, 1864 : 160 nec (THUNBERG, 1795 : 105).

3. *Anthrenus (Anthrenus) oceanicus* FAUVEL, 1903 : 338

After examining two syntypes of *Anthrenus fasciatus* HERBST, 1797 : 337 kept in the Zoological Museum in Berlin, one of which [Fig. 1] was designated as lectotype, I was able to state that this species is not identical with *Anthrenus flavipes* LECONTE, 1854 : 112 (= *A. vorax* WATERHOUSE, 1883 : 61), as it was believed up to now, but that it is a different species, described in 1903 by FAUVEL under the name *Anthrenus oceanicus*. As the name *fasciatus*

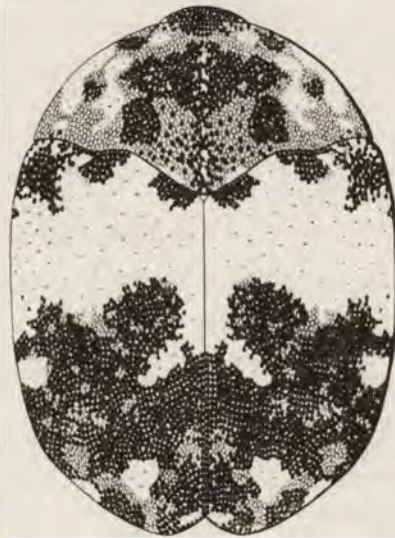


Fig. 1. *Anthrenus fasciatus* HERBST, lectotype, $\times 25$.

HERBST, 1797 is a preoccupied one, it can not be maintained. Another synonym, established upon examination of the descriptive type, is *Anthrenus pimpinellae* v. *basifasciatus* PIC, 1935 : 13. The synonymy of the species is thus as follows:

Anthrenus oceanicus FAUVEL, 1903 : 338.

Syn.: *Anthrenus fasciatus* HERBST, 1797 : 337 nec THUNBERG, 1795 : 105, nec auctorum, **syn. nov.**

Anthrenus fasciatus var. *latebasalis* PIC, 1927a : 66, **syn. nov.**

Anthrenus pimpinellae var. *basifasciatus* PIC, 1935 : 13, **syn. nov.**

It is worthwhile to mention as a supplement to the original description of the species that the scales of the upper side of the body have a longitudinal groove and can be dark brown, pale brown and white (there are no black ones).

4. *Anthrenus importatus* PIC, 1952 = *A. (A.) flavipes* LECONTE, 1854

By examining the holotype of *Anthrenus importatus* PIC, 1952 : 1 (labelled: Hamburg, importé) I ascertained that this species is identical with *Anthrenus flavipes* LECONTE, 1854 : 112. Thus the name *Anthrenus importatus* PIC, 1952 : 1, **syn. nov.**, has to be synonymized with the name *Anthrenus flavipes* LECONTE, 1854 : 112.

5. *Anthrenus (Anthrenus) flavipes albopunctatus* PIC, 1894 : 143

The examination of the holotype of *Anthrenus pimpinellae* v. *albopunctatus* PIC, 1894 : 142 (labelled: Akbes, 1894) revealed that this variety is identical with a subspecies of *Anthrenus flavipes* LECONTE, 1854 : 112, described in 1899 by REITTER as *Anthrenus fasciatus* var. *isabellae*. Thus, the synonymy of the subspecies is as follows:

Anthrenus flavipes albopunctatus PIC, 1894 : 142, **stat. nov.**

Syn.: *Anthrenus pimpinellae* v. *albopunctatus* PIC, 1894 : 142.

Anthrenus fasciatus var. *isabellae* REITTER, 1899 : 216, **syn. nov.**

6. *Anthrenus (Anthrenus) senegalensis* PIC, 1927b : 7

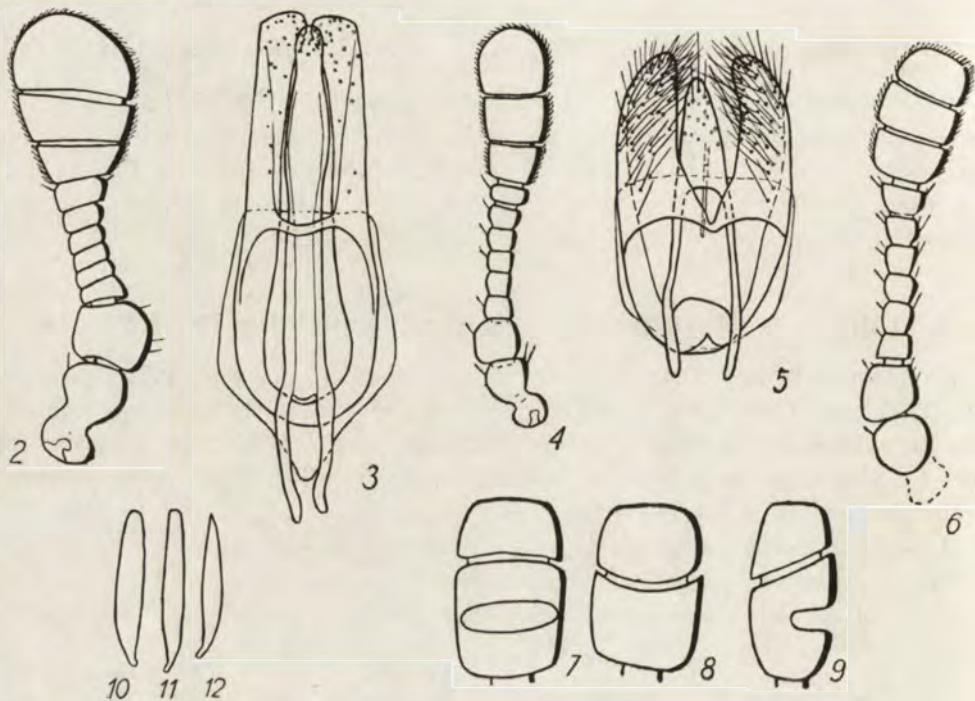
Supplementing the very inaccurate original description, on the fig. 2 I present one antenna and on the fig. 3 the copulatory apparatus of male, all drawn from the holotype labelled „Sénégal, Saint-Louis”. The species differs from the related *A. (A.) x-signum* REITTER, 1881b : 88, not only by the colouring of the upper side of the body, but also by its scales which are narrower, without grooves and not shining. The body of *A. (A.) senegalensis* PIC is more elongated than that of *A. (A.) x-signum* REITT.

7. *Anthrenus (Nathrenus) pubifer* REITTER, 1899 : 217

As a supplement to the description the drawings of one antenna [fig. 4] and the copulatory apparatus of male [fig. 5] are given, both made from the holotype labelled „Syrie (STAUDINGER)”.

8. *Anthrenus (Nathrenus) pilosus* PIC, 1923 : 3

The very short and inaccurate description of this species is being supplemented by the drawings of female antennae [figs. 6–9] and scales from elytra [figs. 10–12], all made from holotype. The right antenna [fig. 6] shows normal structure, while the left one seems of be abnormal: two basal joints of the club are merged and only a deep incision can be noted at one side at a place where a suture could be expected [figs. 7–9]. -



Figs. 2–12. 2–3. *Anthrenus senegalensis* PIC, holotype. 2 – antenna of male, $\times 125$, 3 – male genitalia, $\times 125$. 4–5. *A. pubifer* REITTER, holotype. 4 – antenna of male, $\times 85$, 5 – male genitalia, $\times 100$. 6–12. *A. pilosus* PIC, holotype. 6 – right antenna of male, $\times 100$, 7–9 – club of left antenna of female, three sides, 10–12 – scales of elytra, $\times 250$.

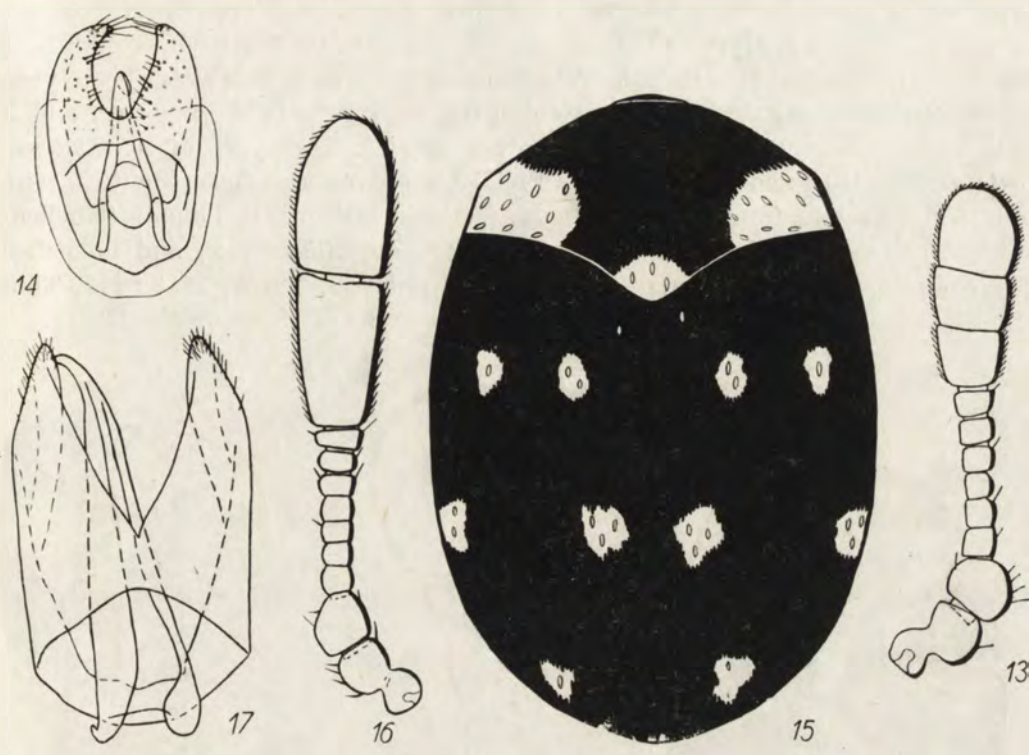
9. *Anthrenus (Nathrenus) undatus* REITTER, 1881 a : 57

Supplementing the description I give the drawings of one antenna [fig. 13] and copulatory apparatus of male [fig. 14] both made from the holotype.

10. *Anthrenus adpersus* HERBST 1797 = *Anthrenus (Nathrenus) verbasci* (LINNAEUS, 1767)

The examination of the holotype of *Anthrenus adpersus* HERBST, 1797 : 332 revealed that this species is identical with *Anthrenus (Nathrenus) verbasci*

(LINNAEUS, 1767 : 568). Accordingly, the name *Anthrenus adspersus* HERBST, 1797 : 332, **syn. nov.**, becomes synonym of the name *Anthrenus (Nathrenus) verbasci* (LINNAEUS, 1767 : 568).



Figs. 13–17. 13–14. *Anthrenus undatus* REITTER, holotype. 13 – antenna of male, $\times 125$, 14 – male genitalia, $\times 125$. 15–17. *A. albomaculatus* PIC, holotype. 15 – imago, $\times 30$, 16 – antenna of male, $\times 100$, 17 – male genitalia, $\times 100$.

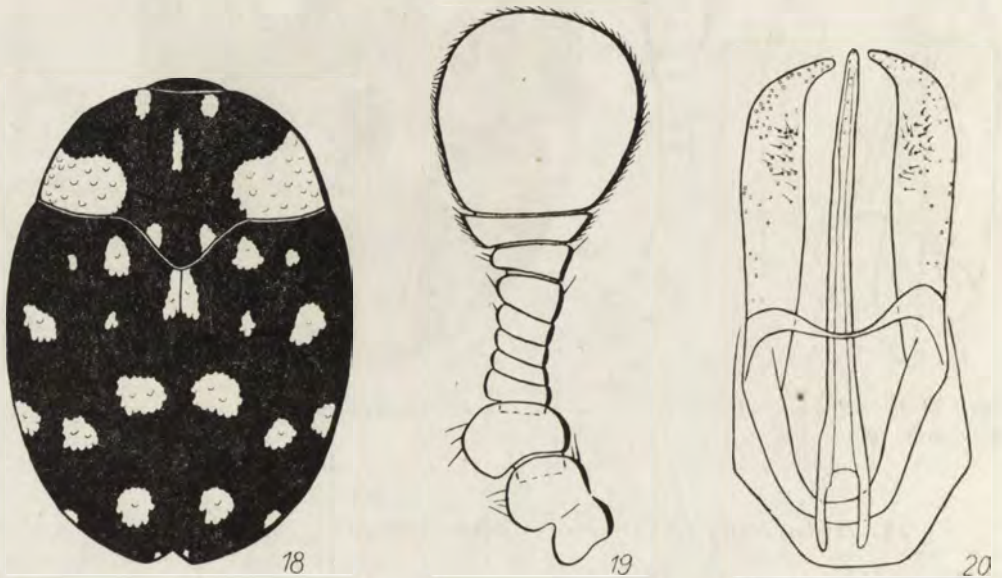
11. *Anthrenus (Nathrenus) albomaculatus* PIC, 1927 b : 6

The species is, at the first look, similar to *A. maculifer* REITTER, 1881a. It has been described very unsufficiently. To supplement its description I give the drawing of an imago seen from above [fig. 15], of a male antenna [fig. 16] and of the copulatory apparatus of male [fig. 17], all made from the holotype labelled „Kina Balu”. The scales of the species are very narrow, and, together with the 11-jointed antennae and oval-shaped eyes, place the species in the subgenus *Nathrenus* CASEY, despite the possession of two-jointed club of antennae.

12. *Anthrenus (Anthrenodes) maculifer* REITTER, 1881 a : 58

After examination of the types of *Anthrenus maculifer* REITTER, 1881a : 58, *Anthrenus multimaculatus* PIC, 1918 : 2 and *Anthrenus albonotatus* PIC, 1924 : 6, it turned out that all three names relate to one species. The types of two later

names are completely identical. The holotype of *Anthrenus maculifer* REITTER, 1881a (labelled: Birma, HELFER) shows a slightly different colouring of the upper side: the marks on pronotum and elytra are yellow whereas in the holotype of *A. multimaculatus* PIC, 1918 (labelled: Kosempo, Formosa, H. SAUTER, 1912, 22 V (and syntypes of *A. albonotatus* PIC, 1924 (Hoo-Binh, Tonkin — 3 specimens) the marks are pale yellow on pronotum and whitish on elytra. It seems, however, that this light colouring as due to light exposure, and it has already been observed in many other species. The types of *A. multimaculatus* PIC, 1918 and *A. albonotatus* PIC, 1924 proved also to be identical with one specimen sent from British Museum (Natural History) in London (labelled: China, Canton, 4 IX 1950, W. E. HOFFMAN, on *Lithocarpus*) and identified by comparison with the types as *Anthrenus globiger* ARROW, 1915 : 447. Thus this last name, too, appears to be only a synonym of *A. maculifer* REITT.



Figs. 18–20. *Anthrenus maculifer* REITTER, holotype. 18 — imago, $\times 30$, 19 — antenna of male, $\times 175$, 20 — male genitalia, $\times 175$.

The synonymy of the species is now as follows:

Anthrenus (*Anthrenodes*) *maculifer* REITTER, 1881a : 58.

Syn.: *Anthrenus globiger* ARROW, 1915 : 447, **syn. nov.**

Anthrenus multimaculatus PIC, 1918 : 2, **syn. nov.**

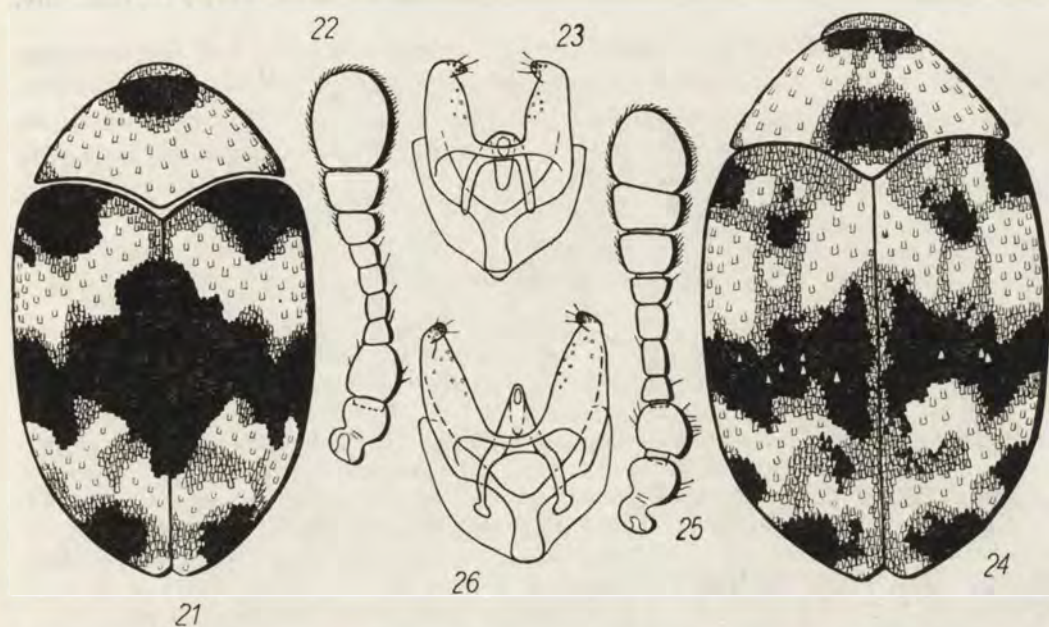
Anthrenus albonotatus PIC, 1924 : 6, **syn. nov.**

To supplement the inaccurate original description, the drawings of an adult in dorsal view [fig. 18], one male antenna [fig. 19] and copulatory apparatus of male [fig. 20] are given, all made from holotype. The scales of

this species are broad, oval, and its 10-jointed antennae place it within the subgenus *Anthrenodes* CHABAUT.

13. *Anthrenus* (*Anthrenops*) *bellulus* CHABAUT, 1897 : 277

To supplement the inaccurate description I give a drawing of an adult specimen [fig. 21] made from designated by me lectotype (Ghardaïa, Mai 1897, Dr. A. CHABAUT) as well as drawings of one antenna [fig. 22] and copulatory apparatus of male (fig. 23) both made from a paralectotype labelled similarly as the lectotype.



Figs. 21-26. 21-23. *Anthrenus bellulus* CHABAUT. 21 - lectotype, $\times 30$, 22 - antenna of male of paralectotype, $\times 135$, 23 - male genitalia of paralectotype, $\times 135$. 24-26. *A. bellulus ornatus* KOCHER, lectotype. 24 - imago, $\times 30$, 25 - antenna of male, $\times 135$, 26 - male genitalia, $\times 135$.

14. *Anthrenus* (*Anthrenops*) *bellulus ornatus* KOCHER, 1955 : 40, stat. nov.

The examination of the description types of *Anthrenus ornatus* KOCHER, 1955 : 40 revealed that this form is closely allied to *Anthrenus bellulus* CHABAUT, 1897, and may be treated at most as a subspecies. As a supplement of inaccurate though extensive original description I give the drawings of an adult [fig. 24], one antenna [fig. 25] and the copulatory apparatus of male [fig. 26] all made from a designated by me lectotype (labelled: Marrakech, juin 1946, KOCHER, coll. PEYERIMHOFF).

15. *Anthrenus longipennis* PIC, 1937 = *Anthrenus (Anthrenops) longus* ARROW, 1915

After the examination of the holotype of *Anthrenus longipennis* PIC, 1937 : 6, labelled: Manow, D. O. Afr., I am thoroughly convinced that this species is identical with *Anthrenus longus* ARROW, 1915 : 448, so the name *Anthrenus longipennis* PIC, 1937 : 6, **syn. nov.**, becomes a new synonym of the name *Anthrenus longus* ARROW, 1915 : 448.

16. *Anthrenus scrophulariae* ab. *insulicola* OBENBERGER, 1917 : 32, stat. nov.

By the kindness of Mr. V. KALIK of Pardubice I have had the opportunity of examining a type specimens of *Anthrenus insulicola* OBENBERGER, 1917:32, labelled "Kephallenia, PAGANETTI, Typus". The examination revealed, that this form is not more as a variety of the common European species *A. scrophulariae* (L.).

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STRESZCZENIE

Autor zbadał szereg typów opisowych gatunków z rodziny *Dermestidae*, opisanych przez THUNBERGA, REITTERA, PICA, CHOBAUTA, HERBSTA i KOCHERA i w wyniku ustala 11 nowych synonimów. Ponadto autor uzupełnia niewystarczające opisy 8 gatunków, ustala nowe położenie podgatunku *Anthrenus bellulus ornatus* KOCHER, opisanego jako gatunek oraz wprowadza nową nazwę *Attagenus wollastoni* nom. nov. dla młodszego homonimu *Attagenus fasciatus* WOLLASTON nec THUNBERG.

РЕЗЮМЕ

Автор исследовал ряд дескрипционных типов видов из семейства *Dermestidae*, описанных Тунбергом (THUNBERG), Райтером (REITTER), Пиком (PIC), Шоботом (CHOBAUT), Гербстом (HERBST), и Кохером (KOCHER) и в результате устанавливает 11 новых синонимов. Кроме того автор пополняет недостаточные описания 8 видов, устанавливает новое положение подвида *Anthrenus bellulus ornatus* KOCHER, описанного как вид и вводит новое название *Attagenus wollastoni* nom. nov. для младшего гононима *Attagenus fasciatus* WOLLASTON nec THUNBERG.