

Below, I listed several species of uncertain taxonomical position. For most of these species location of the types is unknown to me, types of two species are unavailable for study, and one species is known only from the holotype female. It is redescribed, but its taxonomic status is unclear. It may be a good species, or synonym of some species hitherto known from males only.

***Spermophagus braunsi* PIC, 1935**

Spermophagus braunsi PIC, 1935: 66.

Described from Eastern Africa. Type location me unknown.

***Spermophagus brevipes* PIC, 1927**

Spermophagus brevipes PIC, 1927: 13.

Described from Sudan. Type location me unknown.

***Spermophagus dilatatus* MOTSCHULSKY, 1874**

Spermophagus dilatatus MOTSCHULSKY, 1874: 249; PIC, 1913: 59.

Described from Syria. Type location me unknown.

***Spermophagus fochi* PIC, 1919**

Spermophagus fochi PIC, 1919: 3.

Described from Bogor^(Java) (Is). Type location me unknown.

***Spermophagus heydeni* ALLARD, 1868**

Spermophagus heydeni ALLARD, 1868: 102; PIC, 1913: 59.

Described from Ethiopia. Type location me unknown.

***Spermophagus hottentotus* v. *abyssinicus* PIC, 1927**

Spermophagus hottentotus v. *abyssinicus* PIC, 1927: 12.

Described from Ethiopia. Type location me unknown. True *S. hottentotus* occurs only in South Africa. The variety described by PIC is probably another species of *hottentotus* group.

***Spermophagus lugubris* FAHRAEUS, 1871
(figs. 48, 421)**

Spermophagus lugubris FAHRAEUS, 1871: 444; PIC, 1913: 60.

aeneipennis PIC, 1917: 9.

albomaculatus DECELLE, 1970: 262.

albosparsus GYLLENHAL, 1833: 110.

subsignatus GYLLENHAL, 1829: 139.

tesselatus MOTSCHULSKY, 1858: 97.

negligens v. *andamanesis* PIC, 1917: 10.

albofasciatus PIC, 1913: 58, nomen nudum.

albosuturalis PIC, 1933: 688.

altaicus KARAPETJAN, 1973: 44.

babaulti PIC, 1921: 15.

inlobatus PIC, 1924: 455.

erythrinae DECELLE, 1987: 510.

***bengalicus* n. sp.**

bimaculatus PIC, 1911: 124.

brincki DECELLE, 1970: 260.

calystegiae (LUKJANOVITSH et TER-MINASSIAN, 1957: 193 (*Euspermophagus*)).

canus BAUDI, 1887: 472

caricus DECELLE, 1982: 31.

caucasicus BAUDI, 1887: 472

eous (LUKJANOVITSH et TER-MINASSIAN, 1957: 199)(*Euspermophagus*)

cederholmi DECELLE, 1975 c: 193.

latescenta ARORA, 1977: 89.

ceylonicus PIC, 1917: 9.

cicatricosus GYLLENHAL, 1833: 109.

ciliatipes PIC, 1927: 13.

***coimbatorensis* n. sp.**

complectus SHARP, 1866: 37.

multilineolatus PIC, 1918 b: 7.

India, Ceylon, Vietnam,
Thailand, Laos

Tanzania, Zimbabwe, South Africa

India, Ceylon, Nepal, Bangladesh,
Andaman Is., Burma, W Malaysia

Zambia

Mongolia, Russian Altai

Zair, Kenya, Tanzania,
Angola, South Africa

India

Tanzania, Ruanda

Namibia

Western Palearctic

Iran, Kazakh SSR, W China

Rhodos Is., Lebanon, Turkey, Iran,
Uzbek SSR

Caucasus, Middle Asia,
Iran, Afghanistan,
Russian Far East, Korea

India, Ceylon

S India, Ceylon

Sierra Leone, Zair, Cameroon,
Urundi, Kenya, Tanzania,
Botswana, South Africa

Central Africa

India

Russian Far East,
China, Japan

- confusus* BOROWIEC, 1986 b: 163.
variolosopunctatus auct. not Gyllenhal, 1833.
- coronatus n. sp.**
- decellei* BOROWIEC, 1985 b: 465.
- divergens* FAHRAEUS, 1871: 445.
albopunctatus MOTSCHULSKY, 1874: 250.
marshalli PIC, 1903: 170.
- dongdokiensis n. sp.**
- drak n. sp.**
- eichleri* BOROWIEC, 1986 c: 233.
- endrodii* BOROWIEC, 1986 d: 201.
- excavatus* PIC, 1917: 10.
- hottentotus* FAHRAEUS, 1839: 135.
- humilis* DECELLE, 1970: 265.
- incertus n. sp.**
- inlineolatus* PIC, 1931: 26 (var. of *multisignatus*).
- johnsoni* BOROWIEC, 1986 a: 788.
- kannegieteri* PIC, 1911: 124.
- kingsolveri* BOROWIEC, 1986 a: 783.
- klapperichi* BOROWIEC, 1985 a: 19.
- kochi* DECELLE, 1975 b: 28.
corrocaensis DECELLE, 1975 b: 30
 (ssp. of *kochi*).
- kuesteri* SCHILSKY, 1905: no. 4.
albipilis CHOBOUT, 1898: 87.
swartukensis ALI HUSSAIN et KADHIM, 1986: 50.
- kuskai* BOROWIEC, 1986 a: 782.
- latithorax* BOHEMAN, 1829: 116.
tomentosus KLUG, 1835: 42.
gossypii CHEVROLAT, 1871: 8.
natalensis FAHRAEUS, 1871: 445.
trogodermoides FAIRMAIRE, 1902: 247.
latipennis PIC, 1918 b: 9.
- SE Europe, Turkey,
 Caucasus
- Philippines
- Iran
- South Africa
- Laos
- Vietnam
- Zambia
- South Africa
- Sumatra
- South Africa
- Tropical Africa, Madagascar
- Tanzania
- Tanzania
- Burma
- Java
- India
- Jordan
- South Africa, Angola,
 Mozambique
- Mediterranean Subregion, Iran,
 Afghanistan, Middle Asia
- India
- Tropical Africa, Madagascar
 Cap Verde Is., Prince Is.

ligatus CHEVROLAT, 1877: CXXXIV.

uroapicalis PIC, 1925: 12.

lindbergorum DECELLE, 1975 a: 140.

maafensis BOROWIEC, 1985 a: 17.

maai n. sp.

madecassus PIC, 1917: 8.

malvacearum DECELLE, 1971: 254.

mannarensis DECELLE, 1986: 151.

marmoreus n. sp.

maurus FAHRAEUS, 1871: 445.

maynei PIC, 1924: 456.

minutissimus n. sp.

minutus n. sp.

moerens BOHEMAN, 1839: 138.

capensis MOTSCHULSKY, 1874: 251.

monardi DECELLE, 1975 b: 26.

multifloccosus n. sp.

multiguttatus PIC, 1917: 10.

multipunctatus PIC, 1917: 11.

murtulai PIC, 1924: 456.

negligens PIC, 1917: 10.

javanus PIC, 1918 b: 8.

newtoni BOROWIEC, 1986 c: 237.

niger MOTSCHULSKY, 1866: 405.

bifasciolatus MOTSCHULSKY, 1874: 250.

tonkineus PIC, 1917: 8.

formosanus PIC, 1917: 9.

simoni var. *immaculatus* PIC, 1922: 16.

okahandjensis DECELLE, 1973 a: 139.

palmi n. sp.

India, Vietnam

Canary Is.

S Spain, Algeria, Morocco

Thailand

Madagascar

Ethiopia, Kenya, Zair,
Rwanda, Angola

India, Ceylon, Vietnam

South Africa, Kenya, Tanzania

Zair, Tanzania, South Africa

Zair, Cameroon

Madagascar

Java

South Africa, Gambia

Angola, Tanzania, Ethiopia, Sudan

South Africa

Zimbabwe

Gambia, Senegal, Nigeria, Zair,
Rwanda, Angola

Ethiopia, Kenya, Uganda

Indochina, Java, Lombok

Tanzania

Oriental Region incl. Philippines
and Sunda Is.

Namibia

Thailand

pfaffenbergeri BOROWIEC, 1986 a: 786.

***pilipes* n. sp.**

posticus CHEVROLAT, 1877: CXXXV.

senegalensis var. *nigrodenudatus* PIC, 1939: 24.

senegalensis PIC, 1942: 7.

pubiventris BAUDI, 1887: 471

(var. of *variolosopunctatus*).

***punjabensis* n. sp.**

pygopubens PIC, 1930: 9.

***ruandanus* n. sp.**

rufipes TER-MINASSIAN, 1975: 247 (*Euspermophagus*). **Mongolia**

rufonotatus PIC, 1903: 171.

***samuelsoni* n. sp.**

schroederi DECELLE, 1973 a: 137.

scotti DECELLE, 1971: 257.

semiannulatus PIC, 1918 b: 7.

simoni PIC, 1918 a: 303.

sericeus (GEOFFROY, 1785: 112) (*Mylabris*).

cardui BOHEMAN, 1829: 117.

sulcifrons KÜSTER, 1848: no. 52.

euphorbiae KÜSTER, 1848: no. 54.

mesopotameca ALI HUSSAIN et KADHIM, 1986: 53.

ssp. afghanicus BOROWIEC, 1985 a: 7.

***siamensis* n. sp.**

sinensis PIC, 1918 b: 9.

kurseongensis DECELLE, 1977: 405.

somalicus DECELLE, 1979: 82.

sophorae FAHRAEUS, 1839: 136.

fulvopubens PIC, 1918 b: 9.

uniformis PIC, 1932: 332.

stemmleri DECELLE, 1977: 407.

tandalensis BOROWIEC, 1986 c: 235.

Oriental Region incl. Philippines and Sunda Is.

Ethiopia

**Senegal, Ghana, Nigeria
Rep. of Congo, Ethiopia,
Kenya, Tanzania**

Greece, Turkey, Lebanon

India

**Algeria, Nigeria, Ghana, Zair,
Zambia, South Africa**

Ruanda

Mongolia

South Africa, Angola, Botswana

Thailand, Malaysia

Ethiopia, Tanzania

Ethiopia, Gambia

Philippines

Western Palearctic

Thailand

**India, Bhutan,
Sikkim, Yunnan**

Somalia

**Gambia, Dahomey,
Sudan, Ethiopia,
Ceylon, India**

Bhutan

Tanzania

titivilitius BOHEMAN, 1833: 106.

transvaalensis BOROWIEC, 1986 d: 201.

tristis FAHRAEUS, 1871: 444.

variolosopunctatus GYLLENHAL, 1833: 110.

variolosopunctatus var. *maculatus* SCHILSKY: no. 5.

vietnamensis n. sp.

wittmeri BOROWIEC, 1985 b: 463.

India

South Africa

South Africa, Kenya

Oriental Region excl. Philippines

Vietnam

Israel

Species incertae sedis

braunsi PIC, 1935: 66.

brevipes PIC, 1927: 13.

dilatatus MOTSCHULSKY, 1874: 249.

fochi PIC, 1919: 3.

heydeni ALLARD, 1868: 102.

hottentotus var. abyssinicus PIC, 1927: 12.

lugubris FAHRAEUS, 1871: 444.

multisignatus PIC, 1902: 146.

subdenudatus Motschulsky, 1874: 251.

tigridis ALI HUSSAIN et KADHIM, 1986: 54.

turanicus (LUKJANOVITSH et TER-MINASSIAN, 1957;
195) (Euspermophagus).

East Africa

Sudan

Syria

Bogor (Java Is.)

Ethiopia

Ethiopia

South Africa

South Africa

Manchuria

Iraq

Tian-Shan Mts.

PLANTS FED UPON BY SPECIES OF SPERMOPHAGUS

Host plants

Spermophagus spp.

Asteraceae

Carthamus tinctorius

marmoreus

Caesalpiniaceae

Cassia didymobotrya

latithorax

Convolvulaceae

Calystegia dahurica

complexus

C. hederacea

complexus

C. sepium

calystegiae, ?*caucasicus*,

complexus, *confusus*

calystegiae

C. soldanella

kuesteri, *sericeus*

Convolvulus althaeoides

C. arvensis

confusus, *kuesteri*, *sericeus*

C. cantabrica

kuesteri

C. pseudocantabrica

sericeus

<i>C. soldanella</i>	<i>sericeus</i>
<i>C. sp.</i>	<i>abdominalis</i>
<i>Diospyros mespiliformis</i>	<i>bimaculatus</i>
<i>Hewittia bicolor</i>	<i>ceylonicus</i>
<i>Ipomea asarifolis</i>	<i>latithorax</i>
<i>I. cairica</i>	<i>pilipes</i>
<i>I. guamoclit</i>	<i>abdominalis</i>
<i>I. hederacea</i>	<i>abdominalis</i>
<i>I. obscura</i>	<i>sophorae</i>
<i>I. pestigridis</i>	<i>aeneipennis, cederholmi,</i>
	<i>pfaffenbergeri</i>
<i>I. raptans</i>	<i>abdominalis</i>
<i>I. sp.</i>	<i>bimaculatus, cicatricosus</i>
<i>Porana racemosa</i>	<i>sinensis, sophorae</i>

Fabaceae

<i>Erythrina sp.</i>	<i>babaulti</i>
----------------------	-----------------

Malvaceae

<i>Abelmoschus esculentus</i>	<i>kuskai</i>
<i>Hibiscus cannabina</i>	<i>albosparsus, bengalicus,</i>
	<i>pygopubens</i>
<i>H. esculenta</i>	<i>mannarensis</i>
<i>H. furcatus</i>	<i>albosparsus</i>
<i>H. sabaariffa</i>	<i>albosparsus, pygopubens</i>
<i>H. sp.</i>	<i>maurus, niger</i>
<i>Lantana sp.</i>	<i>niger</i>
<i>Merremia chryseides</i>	<i>mannarensis</i>
<i>Urena lobata</i>	<i>niger</i>

Mimosaceae

<i>Acacia tortilis</i> ssp. <i>heterocantha</i>	<i>rufonotatus</i>
---	--------------------

REFERENCES

- ABEILLE DE PERRIN, E., 1888. Tableau synoptique des Bruchides et Urodonides Français. Rev. Ent., 7: 77-90.
- ALI HUSSAIN A., KADHIM A. A., 1986. New species of *Spermophagus* SCH. (Coleoptera: Bruchidae) from Iraq. Journ Biol. Scien. Res., 1986, 17: 43-57 (in Arabian).
- ALLARD, E., 1868. Etude sur le groupe des Bruchites d'Europe et du Bassin de la Méditerranée. Ann. Soc. Ent. Belg., 11: 83-124.
- ARORA, G. L., 1977. Taxonomy of the Bruchidae (Coleoptera) of Northwest India. Orient. Insects, suppl. 7: 1-132.
- ARORA, G. L., 1978. Taxonomy of the Bruchidae (Coleoptera) of Northwest India Part II. Larvae. Orient. Insects, suppl. 8: 1-48.
- BAGDASARIAN, B. A. 1967. Zhuki-zernovki (Coleoptera, Bruchidae) Megrinskogo Raiona Armyanskoi SSR. Ent. Obozr., 46: 805-807.
- BATIASHVILI, I. D., ELERDASHVILI, N. L., 1969. K izucheniyu fauny zernovok (Coleoptera, Bruchidae) Gruzii. Ent. Obozr., 48: 524-531.
- BAUDI, F., 1866. Rassegna della specie della famiglia dei Milabridi (Bruchidi degli autori) viventi in Europa e regioni finitime. Nat. Sicil., 6, 4-5: 1-119.

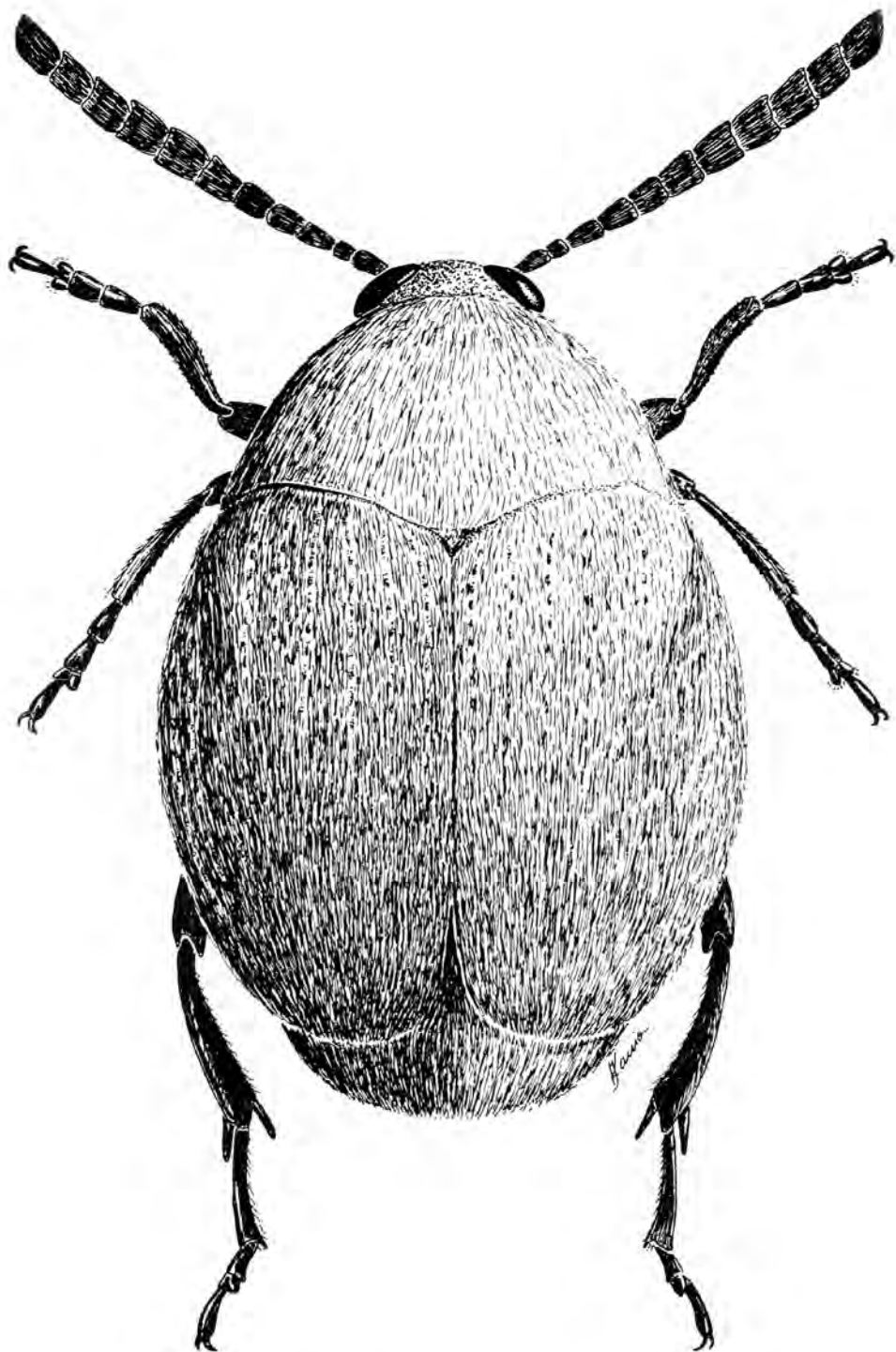
- BAUDI, F., 1890. Mylabridum seu Bruchidum recensio a Flaminio Baudi conscriptae addenda. Deutsche Ent. Zeitschr., 1890: 337-347.
- BEDEL, L., 1901. Faune des Coleopteres du Bassin de la Seine, 5, *Phytophaga. Laridae*. Paris, 1889-1901: 341-366.
- BLACKWELDER, R. E., 1946. Checklist of the Coleopterous Insects of Mexico, Central America, the West Indies, and South America. U. S. Natl. Mus. Bul., 185: 551-763.
- BOHEMAN, C. H., 1829. Novae Coleopterorum species. Nouv. Mem. Soc. Nat. Mosc., 1: 101-133.
- BOHEMAN, C. H., 1833. in: C. J. SCHONHERR, Genera et species curculionidum, cum synonymia hujus familiae, vol. I. Paris.
- BOHEMAN, C. H., 1839. in: C. J. SCHONHERR, Genera et species curculionidum, cum synonymia hujus familiae, vol. V. Paris.
- BOROWIEC, L., 1981. The identification of *Spermophagus sericeus* (Geoffroy, 1785) and *S. calystegiae* (LUKIANOVITSH and TER-MINASSIAN, 1957) (Coleoptera, Bruchidae). Pol. Pismo Ent., 51: 37-39.
- BOROWIEC, L., 1982. *Spermophagus sericeus* (GEOFFROY, 1785) (Coleoptera, Bruchidae) z podwójnym aparatem kopulacyjnym. Prz. Zool., 26: 243-244.
- BOROWIEC, L., 1983 a. Survey of seed-beetles of Bulgaria (Coleoptera, Bruchidae). Pol. Pismo Ent., 53: 107-127.
- BOROWIEC, L., 1983 b. Uwagi o polskich strakowcach (Coleoptera, Bruchidae). Pol. Pismo Ent., 53: 291-300.
- BOROWIEC, L., 1983 c. Contribution to the knowledge of Korean and Mongolian seed-beetles (Coleoptera, Bruchidae). Pol. Pismo Ent., 53: 281-289.
- BOROWIEC, L., 1984. The seed-beetles from Turkey (Coleoptera, Bruchidae). Pol. Pismo Ent., 54: 295-301.
- BOROWIEC, L., 1985 a. Notes on Palaearctic *Spermophagus* SCHONHERR (Coleoptera, Bruchidae, Amblycerinae), with description of two new species. Pol. Pismo Ent., 55: 3-24.
- BOROWIEC, L., 1985 b. Two new species of *Spermophagus* SCHONHERR (Coleoptera, Bruchidae, Amblycerinae) from Israel and Iran. Pol. Pismo Ent., 55: 463-468.
- BOROWIEC, L., 1986 a. On the Oriental *Spermophagus* SCHONHERR (Coleoptera, Bruchidae, Amblycerinae), with description of four new species. Pol. Pismo Ent., (1985) 55: 781-790.
- BOROWIEC, L., 1986 b. The specific status of *Spermophagus variolosopunctatus* GYLLENHAL, 1833 (Coleoptera, Bruchidae, Amblycerinae), with description of a new species. Pol. Pismo Ent., 56: 161-164.
- BOROWIEC, L., 1986 c. The *hottentotus* group of *Spermophagus* SCHONHERR (Coleoptera, Bruchidae, Amblycerinae), with descriptions of three new species. Pol. Pismo Ent., 56: 229-241.
- BOROWIEC, L., 1986 d. Two new species of *Spermophagus* SCHONHERR from South Africa (Coleoptera, Bruchidae: Amblycerinae). Ann. Hist.-Nat. Mus. Nat. Hung., 78: 201-203.
- BOROWIEC, L., 1987 a. The seed-beetles (Coleoptera, Bruchidae) from the Middle East. Pol. Pismo Ent., 57: 601-616.
- BOROWIEC, L., 1987 b. The genera of seed-beetles (Coleoptera, Bruchidae). Pol. Pismo Ent., 57: 3-207.
- BOROWIEC, L., 1988. Bruchidae - strakowce (Insecta: Coleoptera). In: Fauna of Poland, vol. 11, PWN, Warszawa, 226 pp.
- BÖTTMER, L. J., 1968. Notes on Bruchidae of America North of Mexico with a list of world genera. Canadian Ent., 100: 1009-1049.
- BRANDL, P., 1981. 89. Familie: Bruchidae (Samenkafer). In: FREUDE, HARDE, LOHSE, Die Kafer Mitteleuropas, vol. 10: 7-29.
- CALDERON, M., 1962. The Bruchidae of Israel. Riv. Parassit., 23: 207-216.
- CHEVROLAT, A., 1871. Description de six Coleopteres exotiques. Ann. Soc. Ent. Belg., 14: 5-8 + 1 tab.
- CHEVROLAT, A., 1877. Diagnoses de nouvelles especes de Bruchides. Bull. Ann. Soc. Ent. Fr., 7: CXXXIV-CXXXV.
- CHOBOUT, A., 1898. Description de quelques especes et varietes nouvelles de Coleopteres algeriens. Rev. Ent., 17: 74-88.
- CHUJO, M., 1937. Some additions and revisions of Bruchidae (Coleoptera) from the Japanese Empire. Trans. Nat. Hist. Soc. Formosa, 27: 167-168.
- DECELLE, J. E., 1951. Contribution a l'etude des Bruchidae du Congo belge (Col. Phytophaga). Rev. Zool. Bot. Afr., 45: 172-192.
- DECELLE, J., 1956. XCIX. Coleoptera Bruchidae. In: Contributions a l'etude de la faune entomologique du Ruanda-Urundi (Mission P. BASILEWSKY 1953). Ann. Mus. Congo, Zool., 51: 423-426.
- DECELLE, J., 1958. Contribution a l'etude des Bruchidae du Congo Belge (Col. Phytophaga) (Deuxieme note). Rev. Zool. Bot. Afr., 58: 75-84.
- DECELLE, J., 1969. XVII. Coleoptera Bruchidae. In: Le Parc National du Niokolo-Koba (Senegal) Fascicule III. Mem. I. F. A. N., 84: 287-296.
- DECELLE, J., 1970. Coleoptera: Bruchidae. In: South African Animal Life, 14: 256-266.
- DECELLE, J., 1971. Bruchides (Col.) recoltés en Abyssinie Centrale par l'expédition H. SCOTT et J. OMER COOPER (IX.1926-1.1927). Bull. Ann. Soc. R. Ent. Belg., 107: 243-259.

- DECELLE, J., 1973 a. Nouvelles espèces africaines et malgaches de Coleopteres Bruchides des collections du Museum fur Naturkunde de Berlin. Rev. Zool. Bot. Afr., **87**: 131-141.
- DECELLE, J., 1973 b. Contribution a la faune du Congo (Brazzaville Mission A. VILLIERS et A. DESCARPENTRIERES. CVIII. Coleopteres *Bruchidae*. Bull. I. F. A. N., **35**: 597-602.
- DECELLE, J., 1975 a. Les *Bruchidae* (Coleoptera) des Iles Canaries. Bull. Anns Soc. R. Belge Ent., **111**: 109-142.
- DECELLE, J., 1975 b. Les Coleopteres Bruchides d'Angola. Publ. Cult. Co. Diam. Ang., **89**: 13-32.
- DECELLE, J., 1975 c. *Coleoptera: Bruchidae* de Ceylan. Ent. Scand., Suppl. **4**: 179-194.
- DECELLE, J., 1977. Ergebnisse der Bhutan-Expedition 1972 des Naturhistorischen Museums in Basel. *Coleoptera: Fam. Bruchidae*. Entomol. Basiliens., **2**: 393-409.
- DECELLE, J., 1979. Etude d'une collection de Coleopteres Bruchides de Somalie. Mont. Zool. Ital., n. s. suppl. **12**, **9**: 79-88.
- DECELLE, J., 1982. Une nouvelle espèce de *Spermophagus* SCHONHERR (Coleoptera: Bruchidae: Amblycerinae) de Turquie. Bull. Ann. Soc. R. Belge Ent., **118**: 31-34.
- DECELLE, J., 1983. Le genre *Spermophagus* SCHONHERR en Europe occidentale (Col. Bruchidae Amblycerinae). Bull. Soc. Ent. Fr., **150**: 235-241.
- DECELLE, J., 1984. Les Coleopteres *Bruchidae* de l'Archipel du Cap Vert (Insecta: Coleoptera). Cour. Forsch.-Inst. Senckenberg, **68**: 49-55.
- DECELLE, J., 1986. Une nouvelle espèce de *Spermophagus* SCHONHERR (Coleoptera: Bruchidae: Amblycerinae) du Sri Lanka (Ceylan). Bull. Anns Soc. R. Belge Ent., **122**: 151-153.
- DECELLE, J., 1987. Les *Bruchidae* (Coleoptera) afrotropicaux infcodes aux *Erythrina* (Fabaceae). Revue Zool. Afr., **101**: 507-511.
- DECELLE, J., LODOS, N., 1989. Contribution to the study of Legume Weevils of Turkey (Coleoptera: Bruchidae). Bull. Anns Soc. R. Belge Ent., **125**: 163-212.
- EGOROV, A. B., 1981. O faune zernovok (Coleoptera, Bruchidae) Vostochnoj Sibiri i Dalnego Vostoka. In: Novye svedeniya o nasekomykh Dal'nego Vostoka. Vladivostok, 1981: 43-54.
- EGOROV, A. B., TER-MINASSIAN, M. E., 1983. Zhuki-zernovki Vostochnoj Sibiri i Dal'nego Vostoka SSSR. Vladivostok, 61 pp.
- ERNST, W. H. O., TOLSMAN, D. J., DECELLE, J. E., 1989. Predation of seeds of *Acacia tortilis* by insects. Oikos, **54**: 294-300.
- FABRICIUS, J. C., 1781. Species Insectorum exhibentes eorum differentias, specificas, synonymia auctorum, loca natalia, metamorphosis adiectis observationibus, descriptionibus. II. Hamburgi et Kilonii, 494 pp.
- FAHREUS, O. I., 1839. in: C. J. SCHONHERR, Genera et species curculionidum, cum synonymia hujus familiae, vol. V. Paris.
- FAHREUS, O. I., 1871. *Coleoptera* Caffrariae, annis 1838-1854 a J. A. WAHLBERG collecta. Fam. *Brenthidae*, *Anthribidae* et *Bruchidae*. Ofv. Vetensk. Akad. Forh., **28**: 433-452.
- FAIRMAIRE, L., 1902. Matériaux pour la faune Coleopterique Malgache. Ann. Soc. Ent. Belg., **46**: 236-271.
- GEOFFROY, E. L., 1785. in: A. F. FOURCROY, Entomologia Parisiensis, sive Catalogus Insectorum, quae in Agro Parisiensi reperiuntur. **1**. Paris, 231 pp.
- GYLLENHAL, L., 1833. in: C. J. SCHONHERR, Genera et species curculionidum, cum synonymia hujus familiae, vol. I. Paris.
- GYLLENHAL, L., 1839. in: C. J. SCHONHERR, Genera et species curculionidum, cum synonymia hujus familiae, vol. V. Paris.
- HOFFMANN, A., 1945. Coleopteres Bruchides et Anthribides. Faune de France, **44**. Paris, 184 pp.
- HOFFMANN, A., 1954. Contribution a l'etude de la zone d'inondation du Niger (Mission G. Remaudiere). IX. Coleopteres *Curculionidae* et *Bruchidae*. Bull. Inst. Franc. Afr. Noire, **16**: 185-203.
- JOHNSON, C. D., 1970. Biosystematics of the Arizona, California, and Oregon species of the seed beetle genus *Acanthoscelides* SCHILSKY (Coleoptera: Bruchidae). Univ. Calif. Publ. Entomol., **59**: 116 pp.
- JOHNSON, C. D., 1983. Ecosystematics of *Acanthoscelides* (Coleoptera: Bruchidae) of Southern Mexico and Central America. Misc. Publ. Ent. Soc. Amer., **56**: 1-370.
- JOHNSON, C. D., 1990. Systematics of the seed beetle genus *Acanthoscelides* (Bruchidae) of Northern South America. Trans. Amer. Ent. Soc., **116**: 297-618.
- JOHNSON, C. D., KINGSOLVER, J. M., 1973. A revision of the genus *Sennius* of North and Central America (Coleoptera: Bruchidae). U. S. Dept. Agric. Tech. Bull., **1462**: 135 pp.
- KARAPETIAN, A. P., 1973 a. Novyi vid zernovok (Coleoptera, Bruchidae) iz SSSR. Dokl. Akad. Nauk Arm. SSR, **57**: 44-46.
- KARAPETIAN, A. P., 1973 b. Reviziya Armyanskikh predstavitelei roda *Spermophagus* SCHONHERR (Coleoptera, Bruchidae). Biol. Zhurn. Arm., **26**: 75-84.

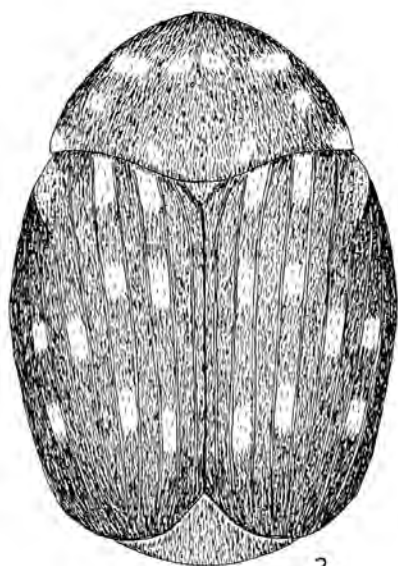
- KARAPETJAN, A. P., 1985. Zernovki (*Bruchidae*). Fauna Armyanskoi SSR. Nasekomye zhestkokrilye. Erewan, 171 pp.
- KINGSOLVER, J. M., 1970 a. A synopsis of the subfamily *Amycterinae* BRIDWELL in the West Indies, with descriptions of new species (*Coleoptera: Bruchidae*). Trans. Amer. Ent. Soc., **96**: 469-497.
- KINGSOLVER, J. M., 1970 b. A study of male genitalia in *Bruchidae* (*Coleoptera*). Proc. Ent. Soc. Wash., **72**: 370-386.
- KINGSOLVER, J. M., BOROWIEC, L., 1988. The genus *Spermophagus* in the New World (*Coleoptera, Bruchidae*). Elytron, **2**: 81-84.
- KLUG, J., 1835. in: Verzeichniss von Thieren und Pflanzen, welche auf einer Reise um die Erde gesammelt wurden von A. ERMANN, Berlin.
- KUSTER, H. C., 1848, Die Kafer Europas, 15. Nurnberg, pages unnumbered, species 1-100.
- LUKJANOVITSH, F. K., TER-MINASSIAN, M. E., 1957. Zhuki-zernovki (*Bruchidae*). Fauna SSSR, Zhestkokrilye, XXIV, 1. Moskva-Leningrad, 209 pp.
- MOTSCHULSKY, V., 1858. Etudes entomologiques, 7: p. 97.
- MOTSCHULSKY, V., 1866. Essai d'un catalogue des insectes de l'Ile de Ceylan. Bull. Soc. Nat. Mosc., 1866, **2**: 405.
- MOTSCHULSKY, V., 1874. Enumeration des nouvelles especes de Coleopteres rapportes de ses voyages. 13-Article. Bull. Soc. Nat. Mosc., **47**: 203-252.
- MUKERJI, S., CHATTERJEE, S. N., 1951. Morphology of the genital structures of some of the *Bruchidae* (*Lariidae*) of India and Ceylon and their taxonomic importance. Ind. Journ. Ent., **13**: 1-28.
- PIC, M., 1902. Description de Bruchides nouveaux. Naturaliste, **24**: 146.
- PIC, M., 1903. Coleopteres de l'Afrique australe. Rev. Ent., **22**: 165-171.
- PIC, M., 1907. Coleopteres exotiques nouveaux ou peu connus. Echange, **23**: 134-135.
- PIC, M., 1911. Diagnoses preliminaires de 30 Coleopteres exotiques. Echange, **27**: 122-124.
- PIC, M., 1913. *Bruchidae*. Coleopterorum Catalogus, Pars 55. Berlin, 74 pp.
- PIC, M., 1917. Descriptions abregees diverses. Melang. Exot.-Ent., **26**: 1-24.
- PIC, M., 1918 a. Trois nouveaux *Spermophagus* SCHOENH. (*Col., Bruchidae*). Bull. Soc. Ent. Fr., **1917**: 302-303.
- PIC, M., 1918 b. Courtes descriptions diverses. Melang. Exot.-Ent., **27**: 1-24.
- PIC, M., 1919. Coleopteres exotiques en partie nouveaux. Echange, **35**: 2-3.
- PIC, M., 1922. Nouveautes diverses. Melang. Exot.-Ent., **35**: 1-32.
- PIC, M., 1924. Nouveaux *Bruchidae* du Congo Belge. Rev. Zool. Afr., **12**: 455-460.
- PIC, M., 1927. Nouveautes diverses. Melang. Exot.-Ent., **48**: 1-32.
- PIC, M., 1928. Nouveaux Coleopteres *Malachidae* et *Bruchidae*. Bull. Soc. Ent. Fr., **1928**: 314-316.
- PIC, M., 1929. Coleopteres exotique en partie nouveaux. Echange, **45**: 11-12.
- PIC, M., 1930. Nouveautes diverses. Melang. Exot.-Ent., **55**: 1-36.
- PIC, M., 1931. Nouveautes diverses. Melang. Exot.-Ent., **57**: 1-36.
- PIC, M., 1932. Nouveaux *Bruchidae* des Indes. Ann. Mag. Nat. Hist., (10)9: 329-333.
- PIC, M., 1933. Coleopteres nouveaux. Ann. Mag. Nat. Hist., (10)11: 686-689.
- PIC, M., 1935. Neue *Bruchidae* (*Col.*). Ent. Ainz., **15**: 65-66.
- PIC, M., 1939. Coleopteres exotiques en partie nouveaux. Echange, **55**: 24.
- PIC, M., 1941. Opuscula martialis, IV. Echange, num. spec., 16 pp.
- PIC, M., 1942. Opuscula martialis, VI. Echange, num. spec., 16 pp.
- POPOV, C. W., 1966. Prouchvaniya v'rkhu z'rnoyaditye (*Bruchidae*) w B'lgariya. Ann. Univ. Sofia, **60**: 1-14.
- PREVEIT, P. F., 1966. Observations on the biology of six species of *Bruchidae* (*Coleoptera*) in Northern Nigeria. Ent. Mon. Mag., **102**: 174-180.
- PREVEIT, P. F., 1971. The larvae of some Nigerian *Bruchidae* (*Coleoptera*). Trans. R. Ent. Soc. Lond., **123**: 247-312.
- REY, C., 1893. Famille des Bruchides. Echange, **100**: 37.
- SCHILSKY, J., 1905. *Bruchidae*, in: Die Kafer Mitteleuropas, 41. Heft. Nurnberg, pages unnumbered, species 1-100.
- SCHONHERR, C. J., 1833. Genera et species curculionidum, cum synonymia hujus familiae. Tomus I. Paris, 681 pp.
- SHARP, D., 1886. On the *Bruchidae* of Japan. Ann. Mag. Nat. Hist., **18** (5): 34-38.
- SINGH, T., 1978. The male accessory glands in *Bruchidae* (*Coleoptera*) and their taxonomic significance. Ent. Scand., **9**: 198-203.
- SINGH, T., 1981. A taxonomic study of the wing of *Bruchidae* (*Coleoptera*). Orient. Insects, **15**: 221-225.
- SOBOLEVA, L. W., 1968. Zernovki (sem. *Bruchidae*) ushel'ya Kondara. In: Ushchel'ye Kondara, kn. 2. Dushanbe: 124-128.
- TER-MINASSIAN, M. E., 1973. 212. *Bruchidae*. Ergebnisse der zoologischen Forschungen von Dr. Z. KASZAB in der Mongolei (*Coleoptera*). Reichenbachia, **14**: 75-83.
- TER-MINASSIAN, M. E., 1975. Obzor zhukov-zernovok (*Coleoptera, Bruchidae*) Mongolii. In: Nasekomye Mongolii, **3**: 243-248.

- THUNBERG, C. P., 1816. Fyra nya arter *Bruchus* Slaget. Vetens. Acad. Handl., 1: 43-47.
- UDAYAGIRI, S., WADHI, S. R., 1982. A key to world bruchid genera. NBPGR Sci. Monogr., 5: 3-16.
- VAZIRANI, T. G., 1975. A contribution to the knowledge of Oriental *Bruchidae*. Journ. Bombay Nat. Hist. Soc., 72: 740-757.
- WENDT, H., 1978. Der Bruchiden-Typen der Koleopteren-Sammlung des Zoologischen Museums Berlin. Mitt. Zool. Mus. Berl., 54: 353-367.
- WENDT, H., 1983. Bruchiden aus dem Museum A. KOENIG Bonn, gesammelt von J. KLAPPERICH (*Col. Phytophaga*). Deutsche Ent. zeitschr., N.F., 30: 93-98.
- WENDT, H., 1984. Zur Kenntnis der Bruchidenfauna Bulgariens (*Col. Phytophaga*). Deutsche Ent. Zeitschr., N.F., 31: 153-167.
- WENDT, H., 1985. Über die Bruchiden-Fauna der Mongolei (*Coleoptera, Chrysomelidae*). Mitt. Zool. Mus. Berl., 61: 279-285.
- WENDT, H., 1986. Beiträge zur Insektenfauna der DDR: *Coleoptera - Bruchidae (Chrysomeloidea)*. I. Zur Biologie und Verbreitung. Mitt. Zool. Mus. Berl., 62: 103-133.
- WENDT, H., 1988. Beiträge zur Insektenfauna der DDR: *Coleoptera - Bruchidae (Chrysomeloidea)*. II. Bestimmungstabellen der heimischen Arten. Mitt. Zool. Mus. Berl., 64: 311-318.
- YADAV, J. S., 1969. Chromosome number and sex-chromosome mechanism in *Bruchidae (Coleoptera)*. Res. Bull. Panjab Univ. (N.S.), 20: 259-260.
- YADAV, J. S., 1973. Chromosomes of seven species of *Bruchidae (Coleoptera)* from North India. Genetica, 44: 288-297.
- ZAMPETTI, M., 1979. Contributo alla conoscenza dei *Bruchidae* del Libano (*Coleoptera*). Fram. Entomol., 15: 201-207.
- ZAMPETTI, M., 1981. Contributo alla conoscenza dei bruchidi di Turchia. I. (*Coleoptera, Bruchidae*). Fram. Entomol., 16: 73-87.
- ZAMPETTI, M., 1988. Appunti sui Bruchidi dell'Africa Orientale (*Coleoptera, Bruchidae*). Fram. Entomol., 21: 101-110.

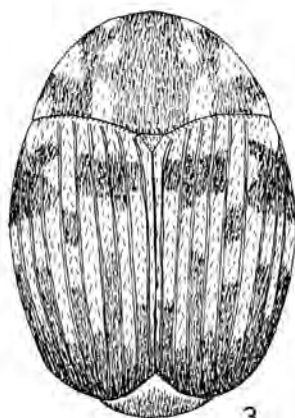
FIGURES



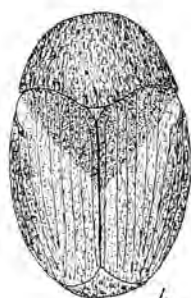
1. *Sperophagus sericeus* (GEOFFROY)



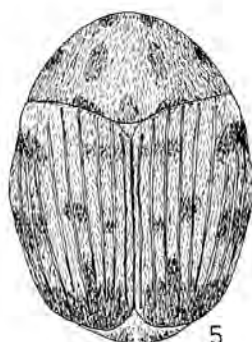
2



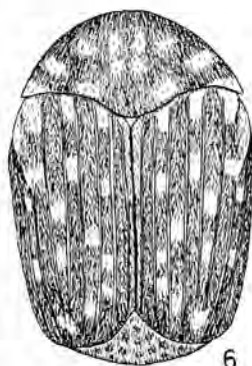
3



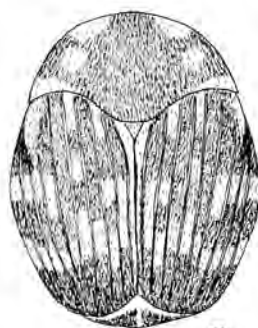
4



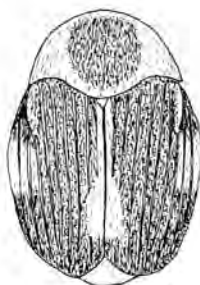
5



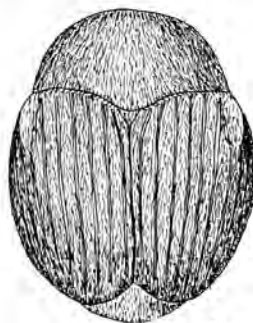
6



7

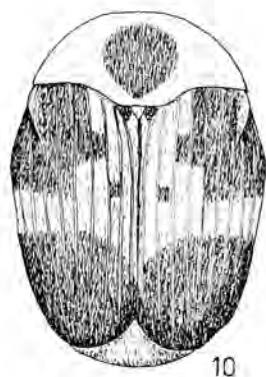


8

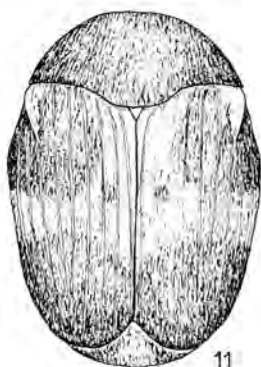


9

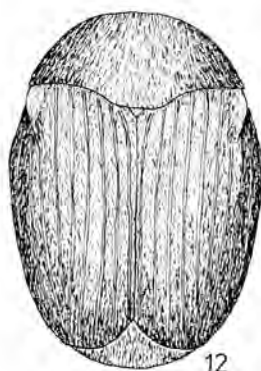
2-9. Dorsal pattern: 2-4 - *Spernophagus abdominalis*, 5 - *S. aeneipennis*, 6 - *S. albomaculatus*, 7 - *S. albosparsus*,
8 - *S. albosunralis*, 9 - *S. altaicus*



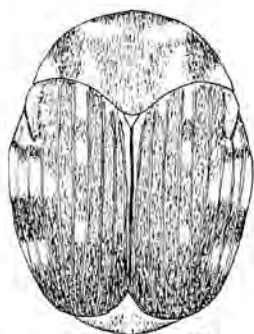
10



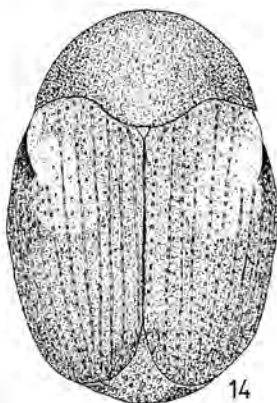
11



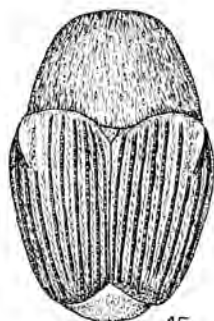
12



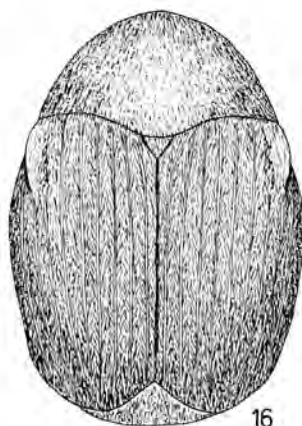
13



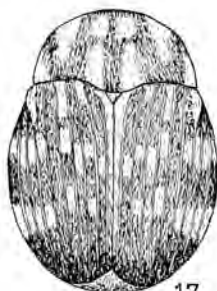
14



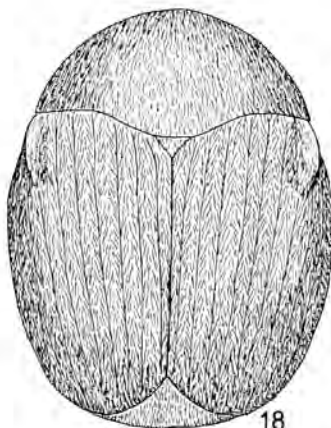
15



16

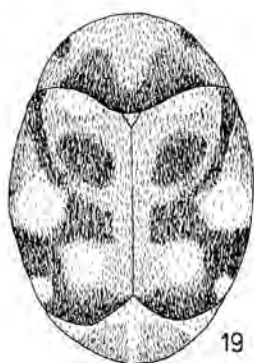


17

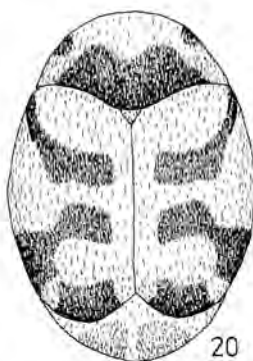


18

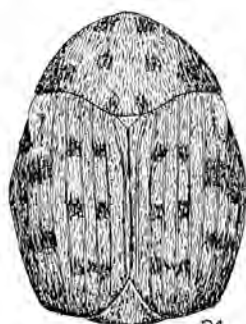
10-18. Dorsal pattern: 10-12 - *Spermophagus babaulti*, 13 - *S. bengalicus*, 14 - *S. bimaculatus*, 15 - *S. brincki*,
16 - *S. calystegiae*, 17 - *S. caucasicus*, 18 - *S. canus*



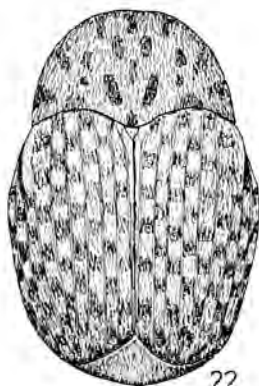
19



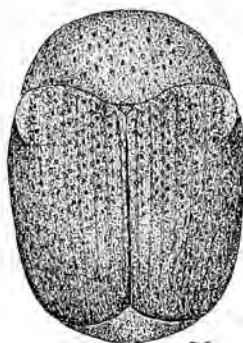
20



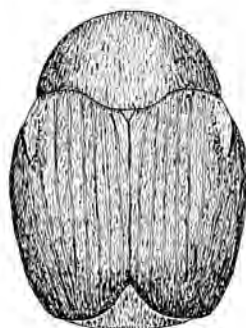
21



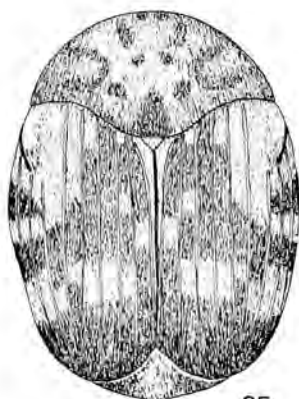
22



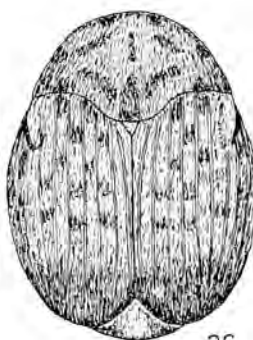
23



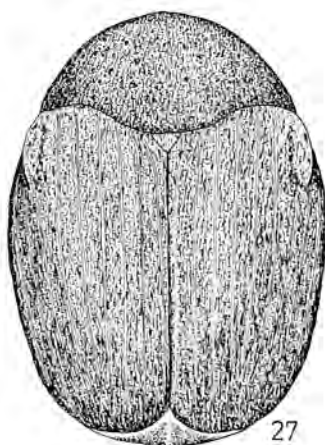
24



25

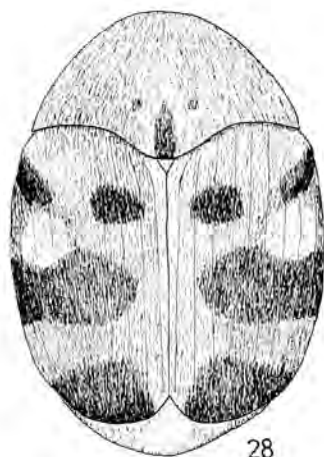


26

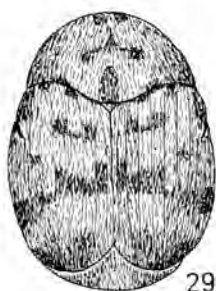


27

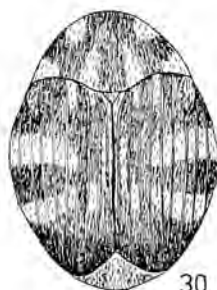
19-27. Dorsal pattern: 19, 20 - *Spermophagus caricus*, 21 - *S. cederholmi*, 22 - *S. ceylonicus*, 23 - *S. cicatricosus*,
24 - *S. ciliatipes*, 25 - *S. coimbatorensis*, 26 - *S. coronatus*, 27 - *S. confusus*



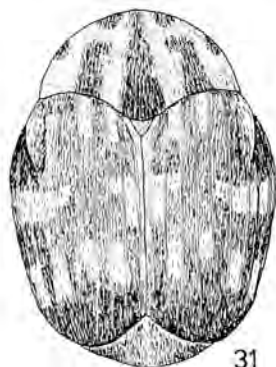
28



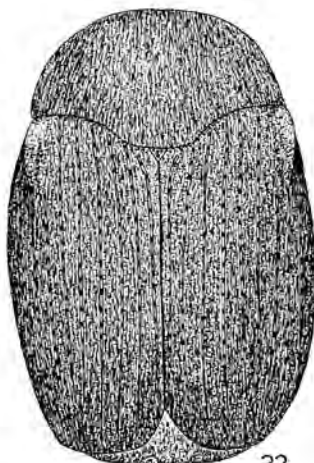
29



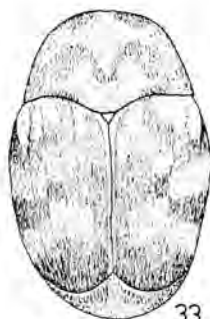
30



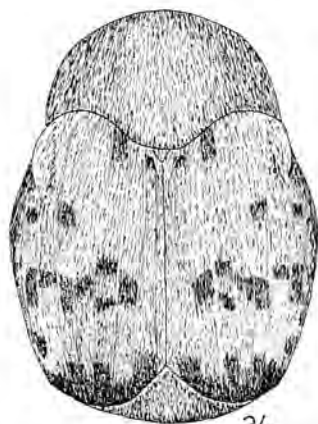
31



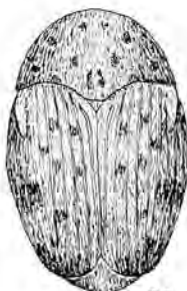
32



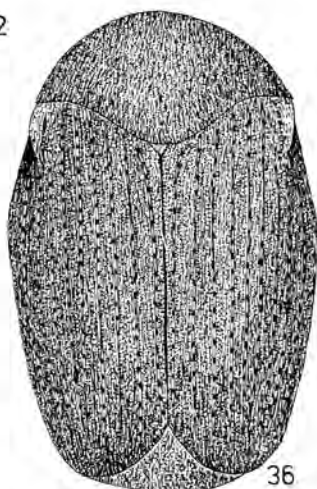
33



34

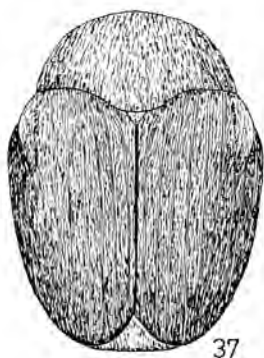


35

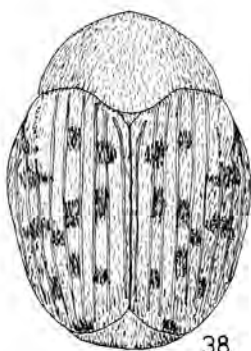


36

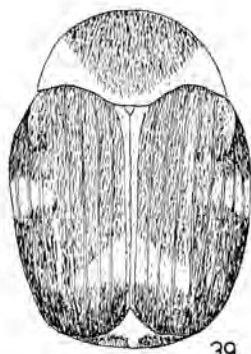
28-36. Dorsal pattern: 28 - *Sperophagus decellei*, 29 - *S. divergens*, 30 - *S. dongdokiensis*, 31 - *S. drak*, 32 - *S. eichleri*, 33 - *S. endrodii*, 34 - *S. excavatus*, 35 - *S. incertus*, 36 - *S. hottentonus*



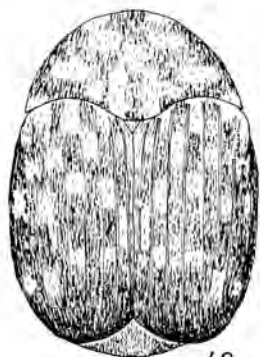
37



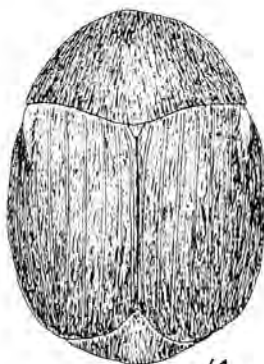
38



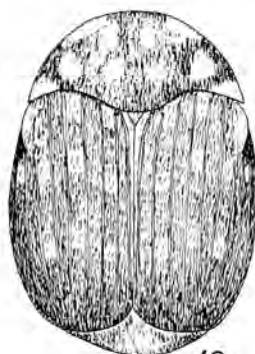
39



40



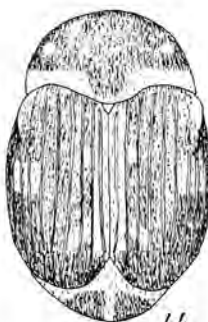
41



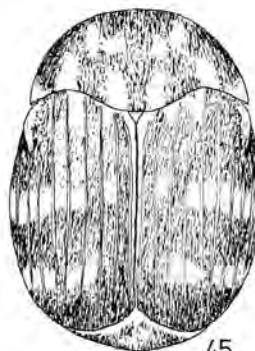
42



43

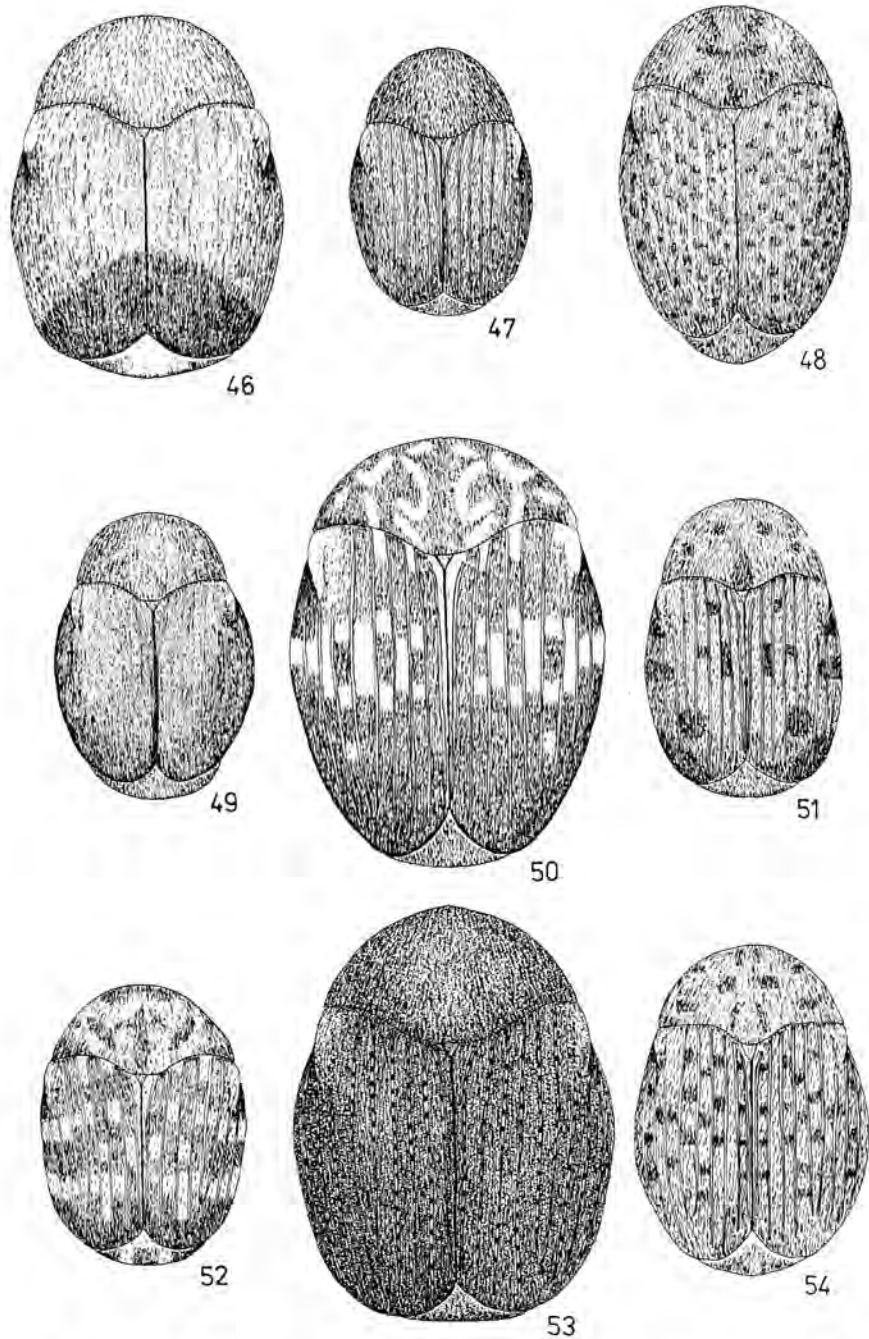


44

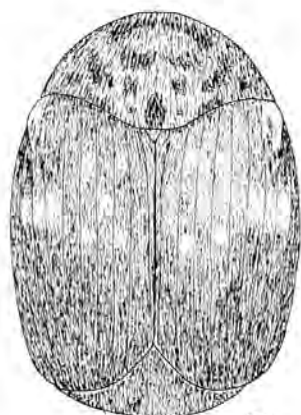


45

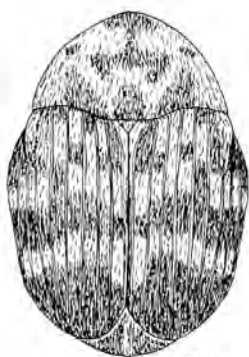
37-45. Dorsal pattern: 37, 38 - *Spernophagus humilis*, 39 - *S. inlineolatus*, 40 - *S. johnsoni*, 41 - *S. kannegieteri*, 42 - *S. kingsolveri*, 43 - *S. klapperichi*, 44 - *S. kochi*, 45 - *S. kuskai*



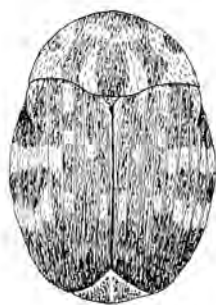
46-54. Dorsal pattern: 46 - *Spermophagus ligatus*, 47 - *S. lindbergorum*, 48 - *S. lugubris*, 49 - *S. maafensis*, 50 - *S. maai*, 51 - *S. malvacearum*, 52 - *S. mannarensis*, 53 - *S. madecassus*, 54 - *S. marmoreus*



55



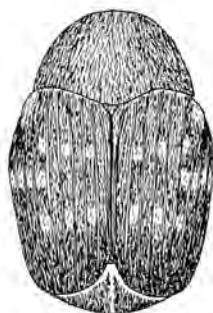
56



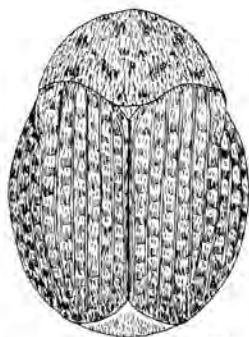
57



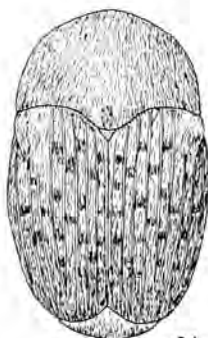
58



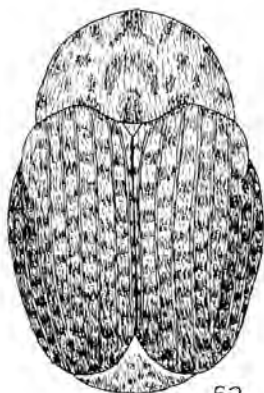
59



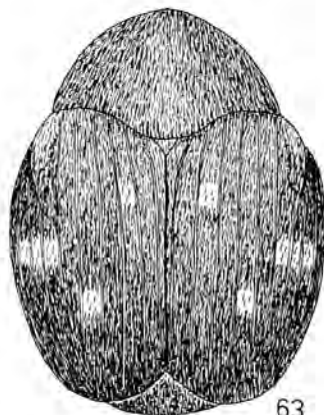
60



61

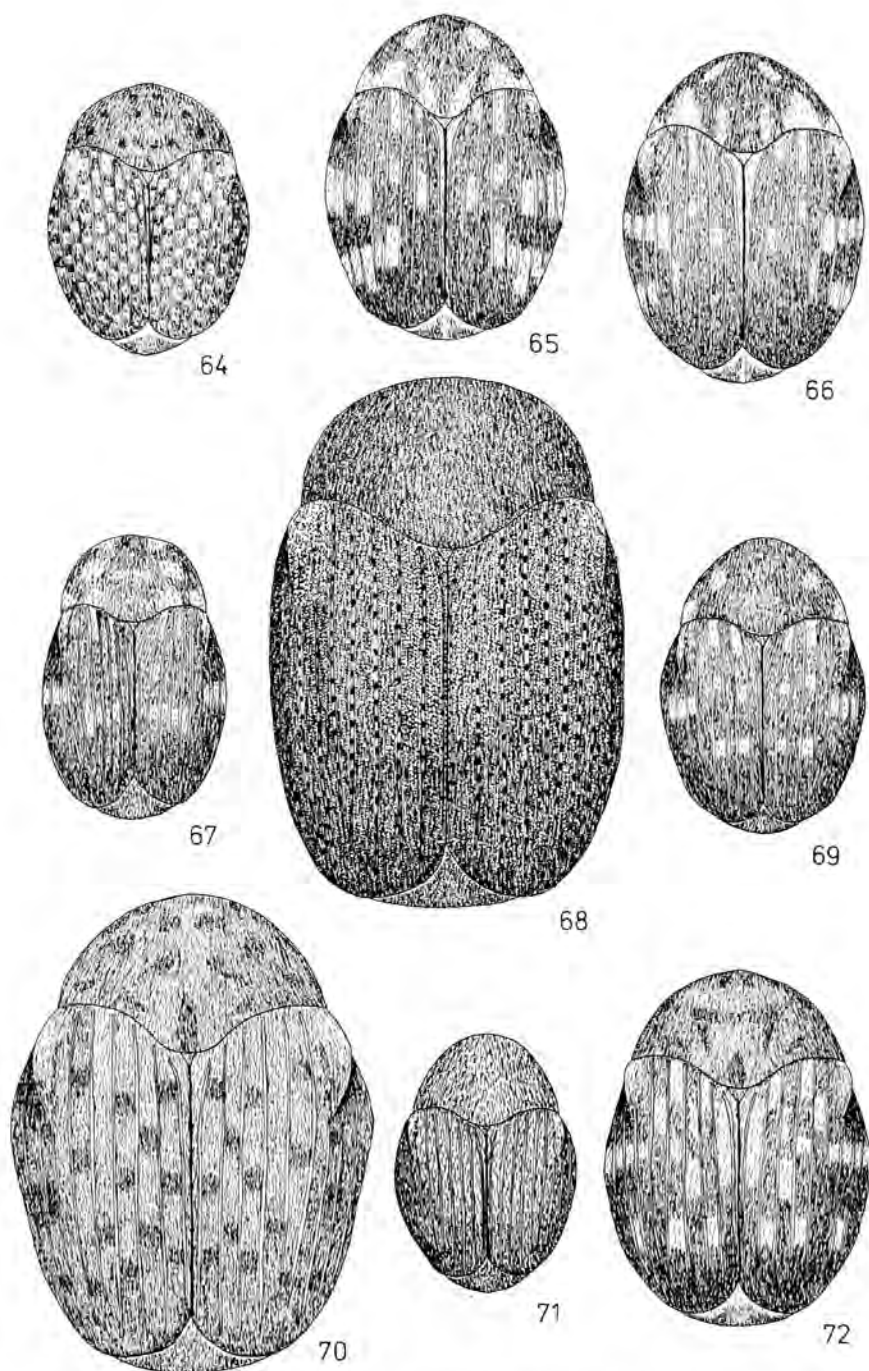


62

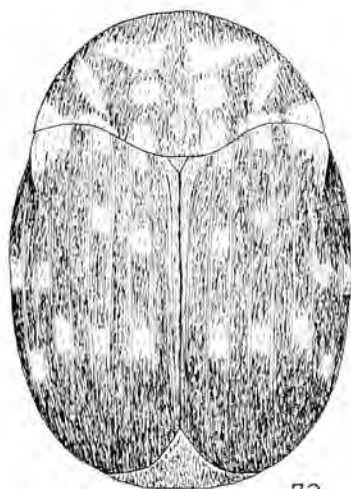


63

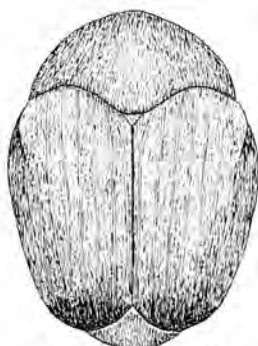
55-63. Dorsal pattern: 55 - *Spermothagus maynei*, 56 - *S. maurus*, 57 - *S. minutus*, 58 - *S. minutissimus*, 59 - *S. moerens*, 60 - *S. monardi*, 61 - *S. multifloccosus*, 62 - *S. multiguttatus*, 63 - *S. complexus*



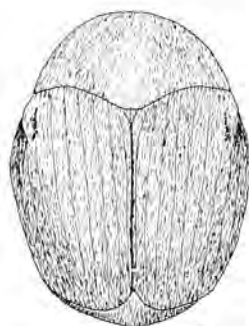
64-72. Dorsal pattern: 64 - *Spermophagus multipunctatus*, 65, 66 - *S. negligens*, 67 - *S. murtulai*, 68 - *S. newtoni*,
69 - *S. niger*, 70 - *S. palmi*, 71 - *S. okahandjensis*, 72 - *S. psaffenbergi*



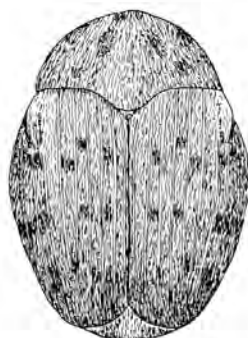
73



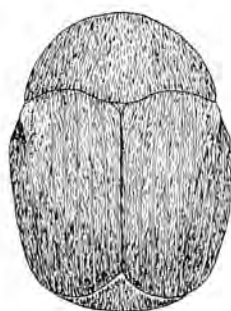
74



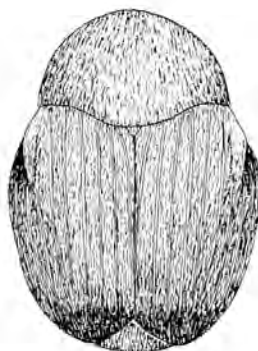
75



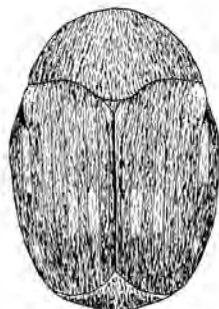
76



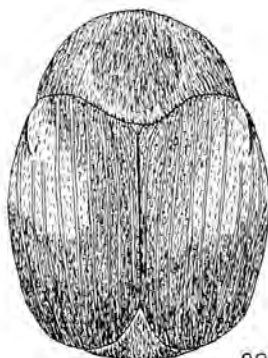
77



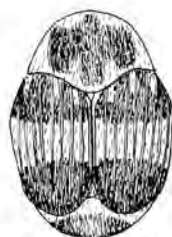
78



79

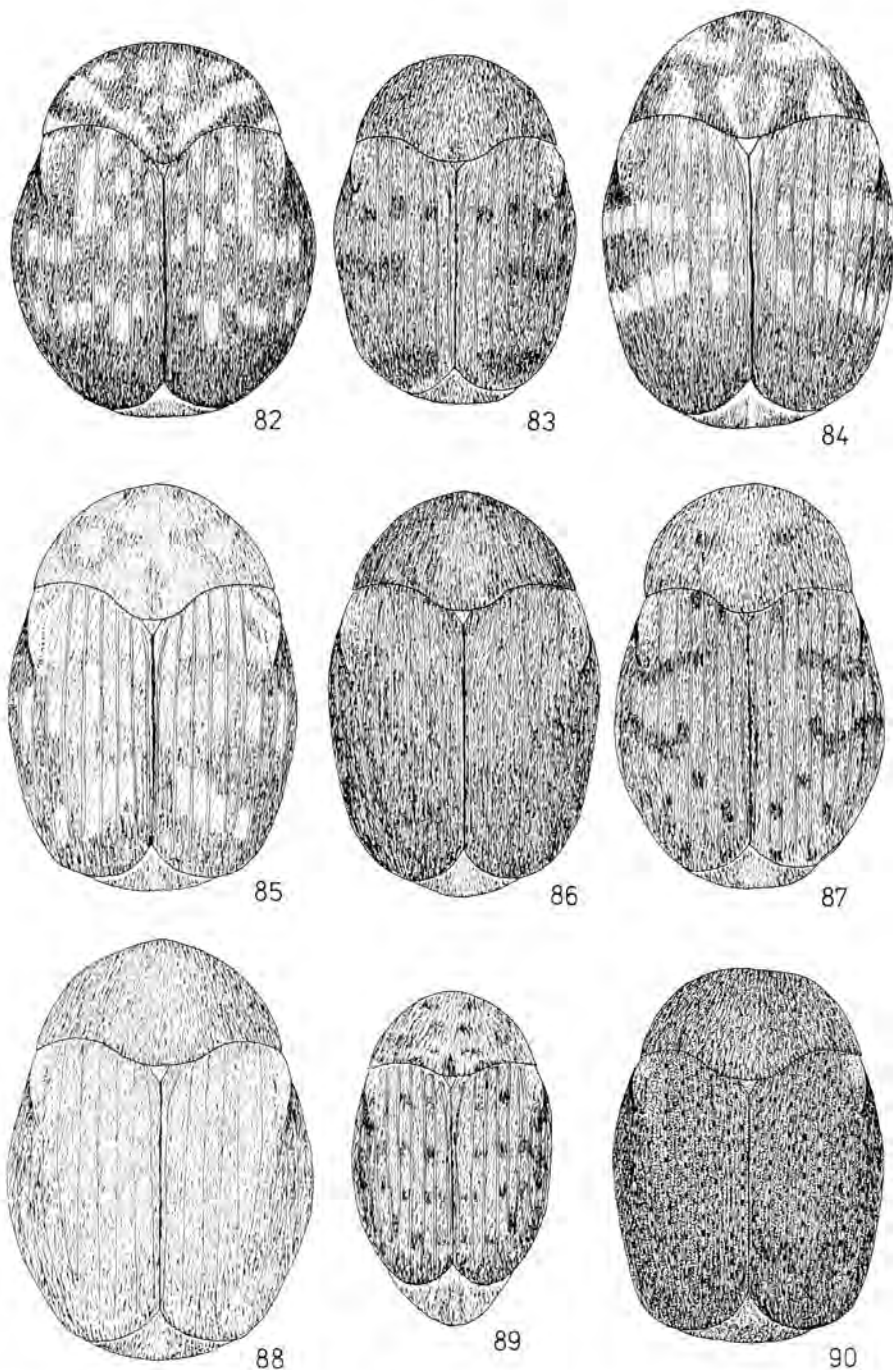


80

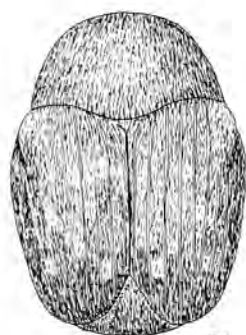


81

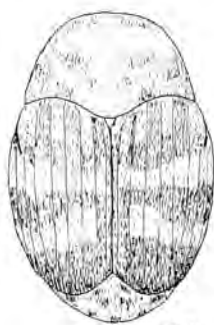
73-81. Dorsal pattern: 73 - *Spermophagus pilipes*, 74 - *S. posticus*, 75 - *S. pubiventris*, 76 - *S. punjabensis*, 77 - *S. pygopubens*, 78 - *S. ruandanus*, 79 - *S. rufipes*, 80 - *S. rufonotatus*, 81 - *S. schroederi*



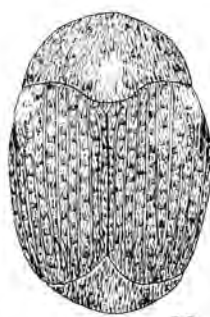
82-90. Dorsal pattern: 82 - *Spennophagus samuelsoni*, 83 - *S. scotti*, 84 - *S. semiannulatus*, 85 - *S. siamensis*, 86 - *S. sinensis*, 87 - *S. somalicus*, 88 - *S. sophorae*, 89 - *S. stemmleri*, 90 - *S. iandalensis*



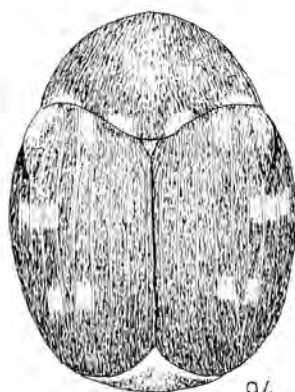
91



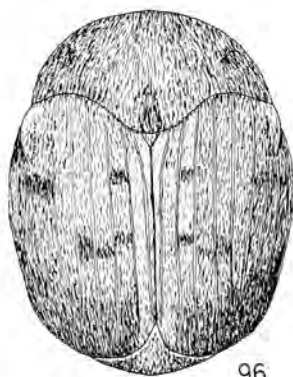
92



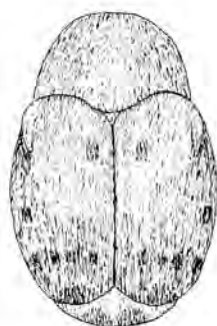
93



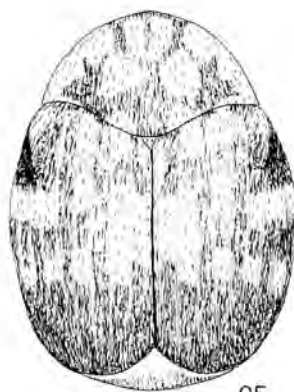
94



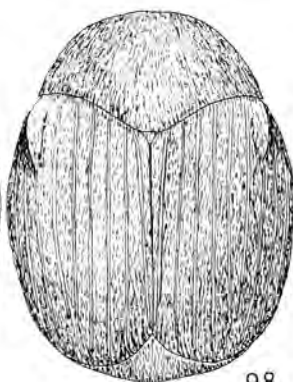
96



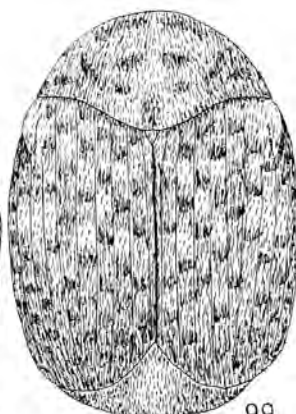
97



95

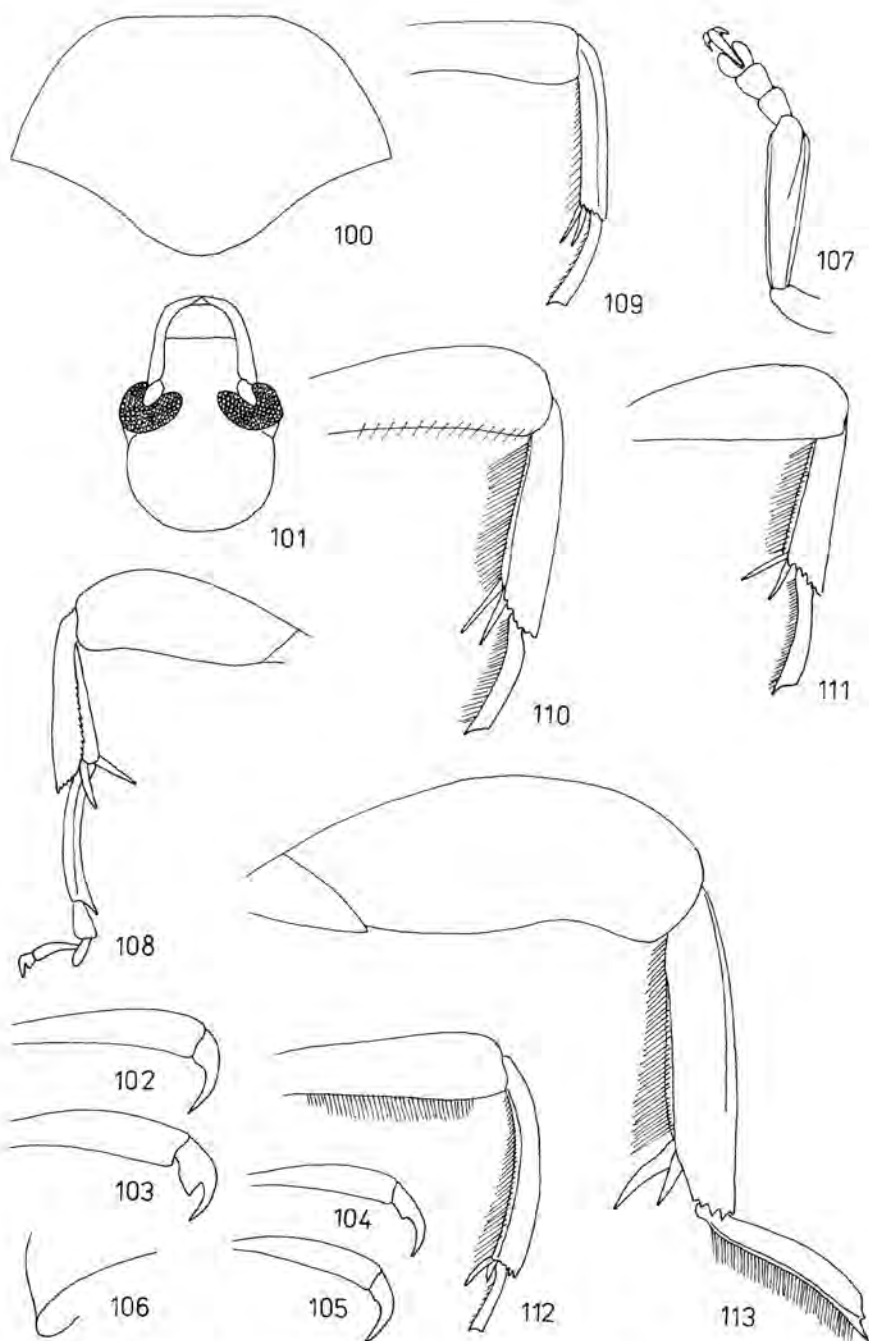


98

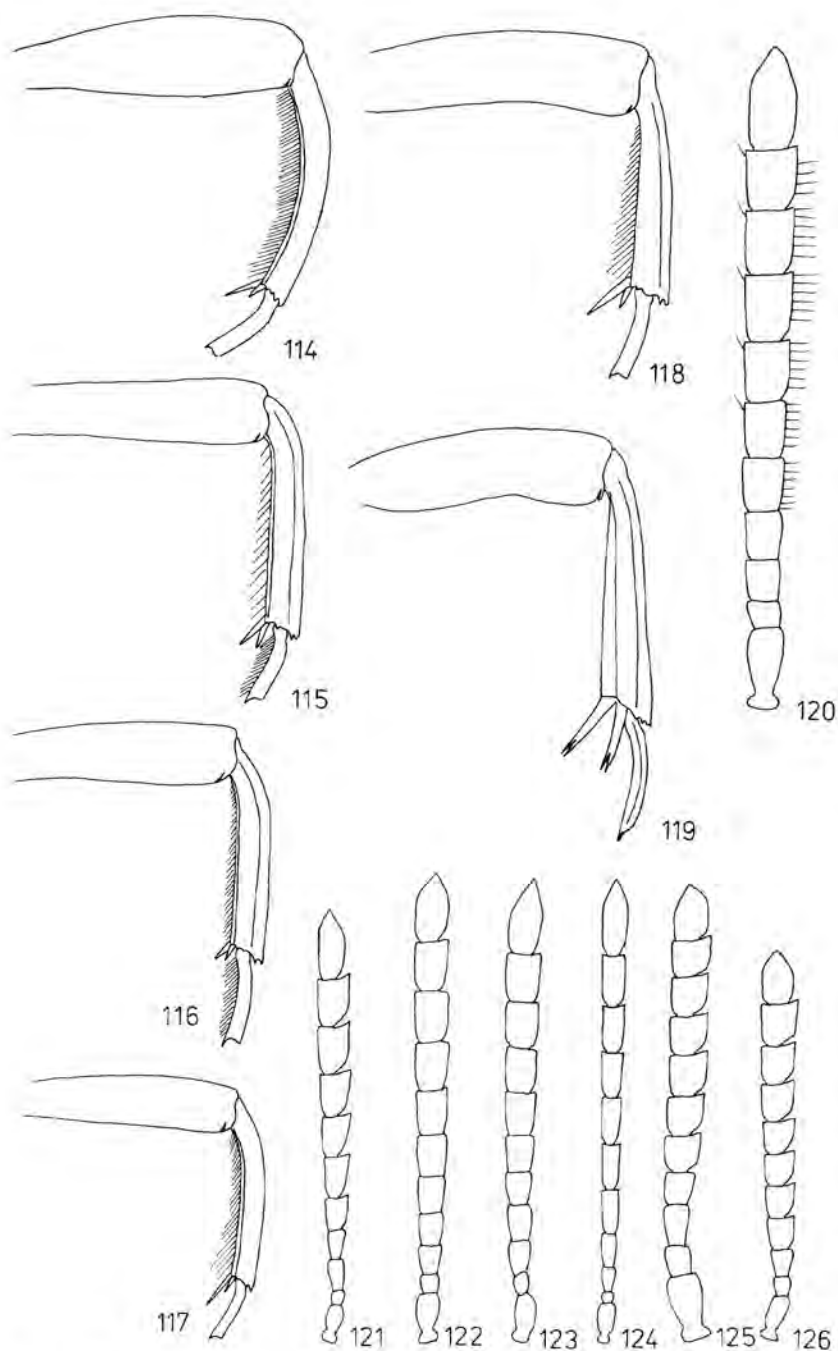


99

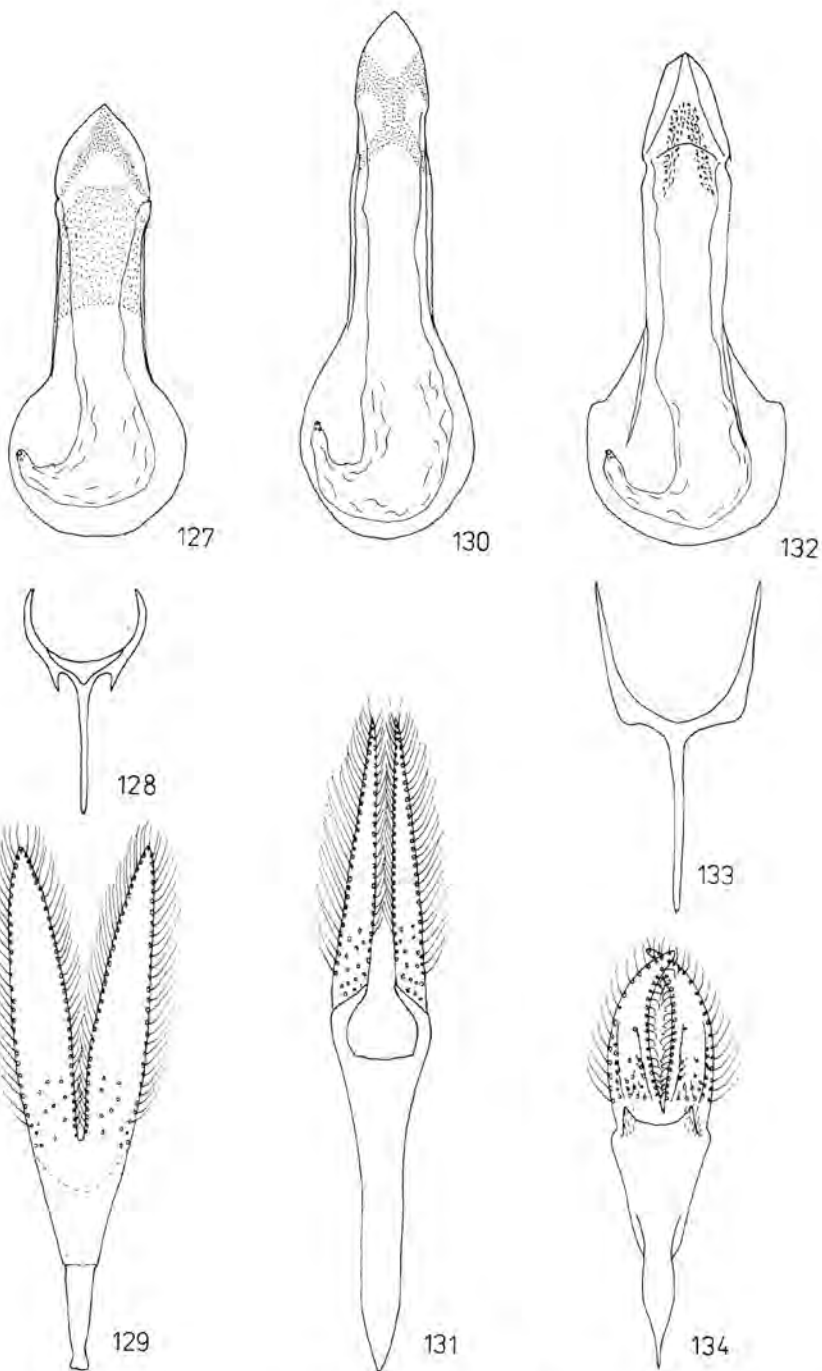
91-99, Dorsal pattern: 91 - *Spermophagus tiivilius*, 92 - *S. transvaalensis*, 93 - *S. tristis*, 94, 95 - *S. variolosopunctatus*, 96 - *S. vietnamensis*, 97 - *S. wittneri*, 98 - *S. kuesteri*, 99 - *S. latihorax*



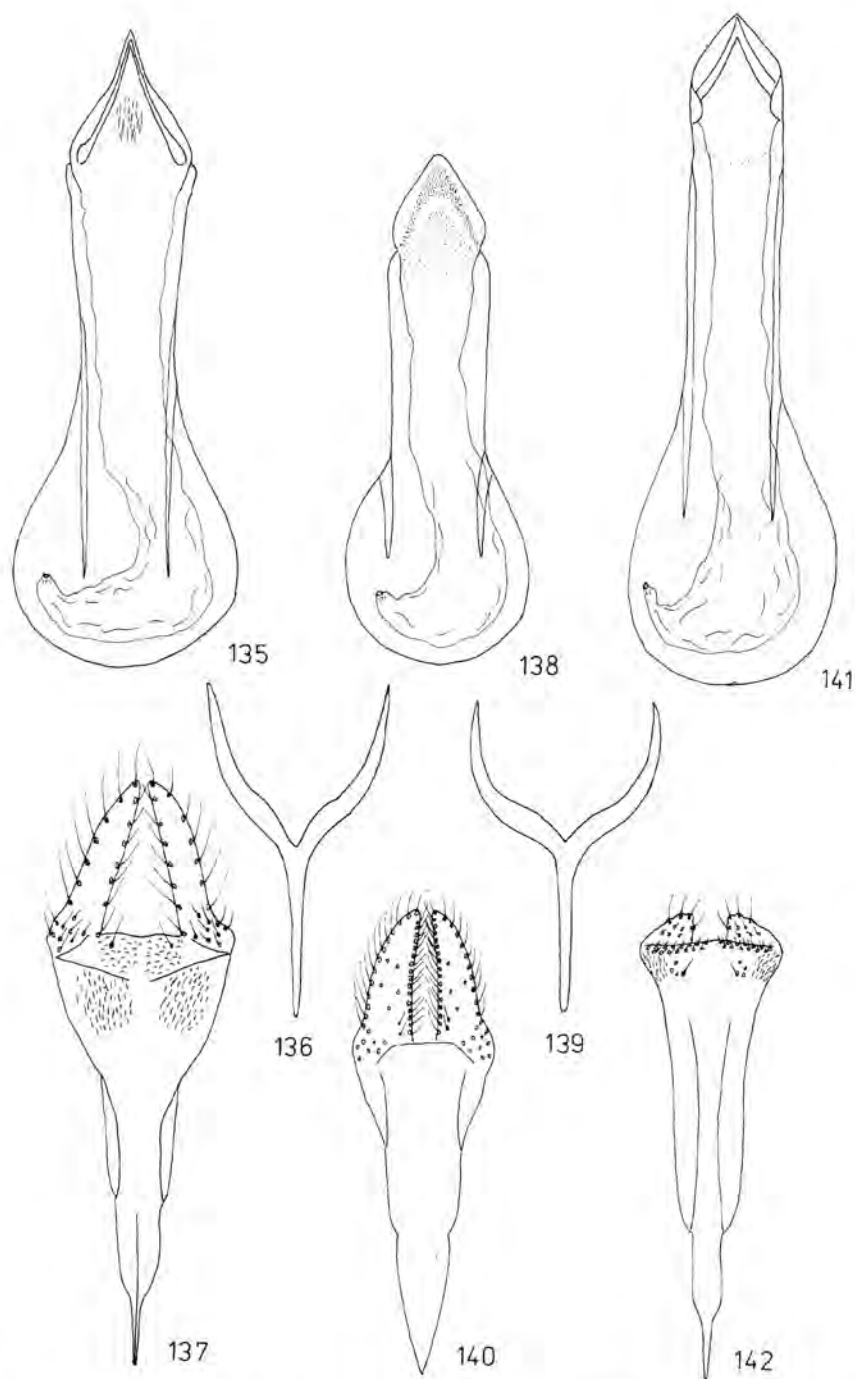
100, 101, 106, 108. *Sperophagus sericeus*: 100 - pronotum, 101 - head, 106 - anterior part of lateral margin of pronotum, 108 - hind leg. 102-105. Claws of fore leg: 102 - *S. maaensis*, 103 - *S. kuesteri*, 104 - *S. klapperichi*, female, 105 - *S. klapperichi*, male. 107. *S. ceylonicus*: fore tibia and tarsus. 109-113. Hind leg: 109 - *S. ceylonicus*, 110 - *S. pilipes*, 111 - *S. albomaculatus*, 112 - *S. bimaculatus*, 113 - *S. hottentotus*



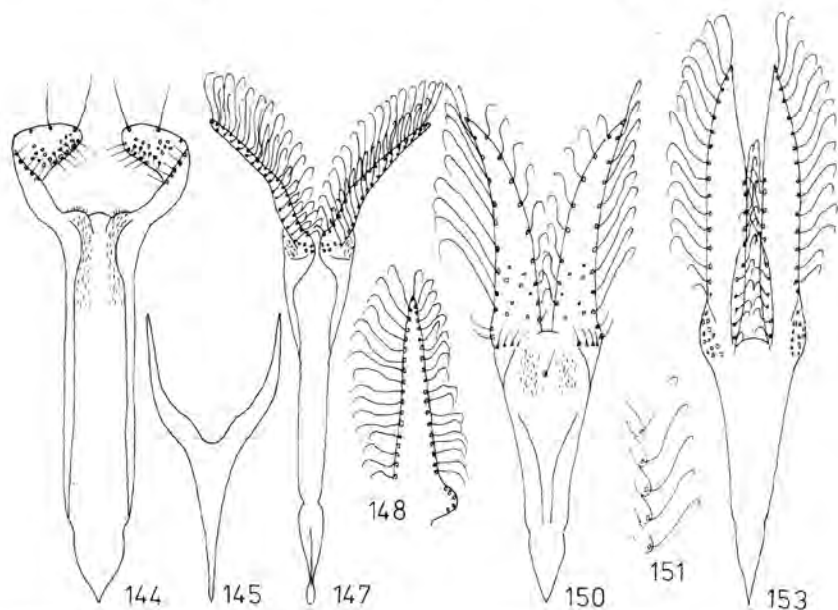
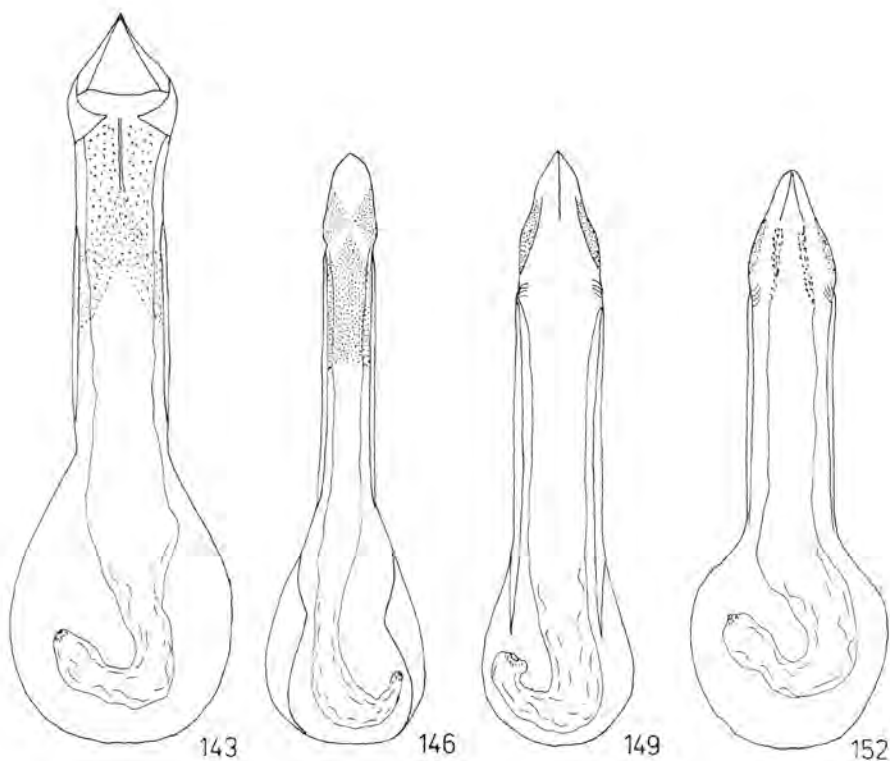
114-119. Hind leg: 114 - *Sperophagus newtoni*, 115 - *S. eichteri*, 116 - *S. tandalensis*, 117 - *S. ciliatipes*, 118 - *S. madecassus*, 119 - *S. abdominalis*. 120-126. Antenna: 120 - *S. albomaculatus*, 121 - *S. albosuturalis*, 122 - *S. ceylonicus*, 123 - *S. excavatus*, 124 - *S. mannarensis*, 125 - *S. wittmeri*, 126 - *S. scotti*



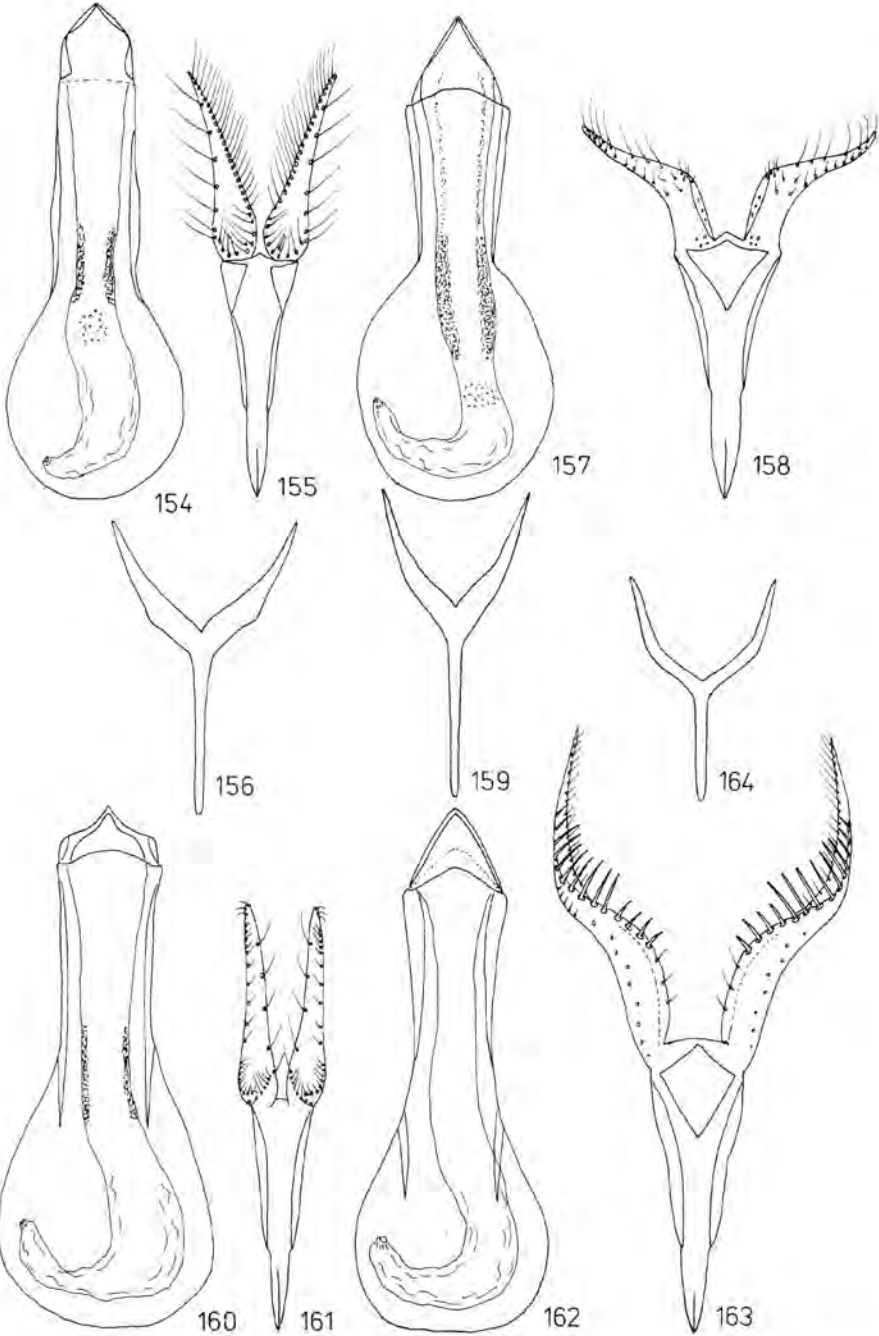
127-134. Male genitalia: 127-129 - *Spermophagus sericeus*, 130, 131 - *S. calystegiae*, 132-134 - *S. altaicus*. 127, 130, 132: median lobe, 128, 133: spiculum gastrale, 129, 131, 134: lateral lobes



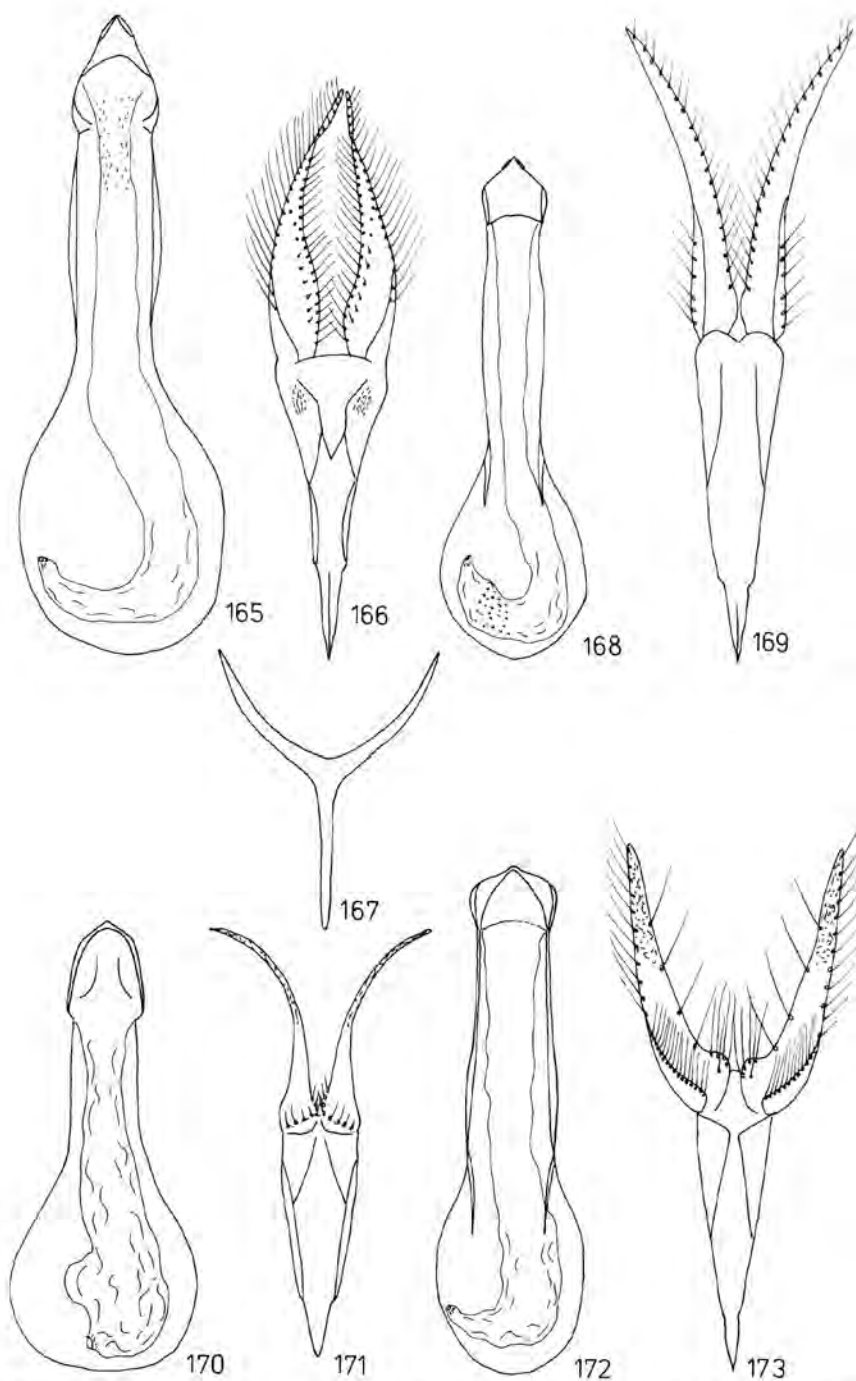
135-142. Male genitalia: 135-137 - *Spermophagus confusus*, 138-140 - *S. kuesteri*, 141, 142 - *S. canus*. 135, 138, 141: median lobe, 136, 139: spiculum gastrale, 137, 140, 142: lateral lobes



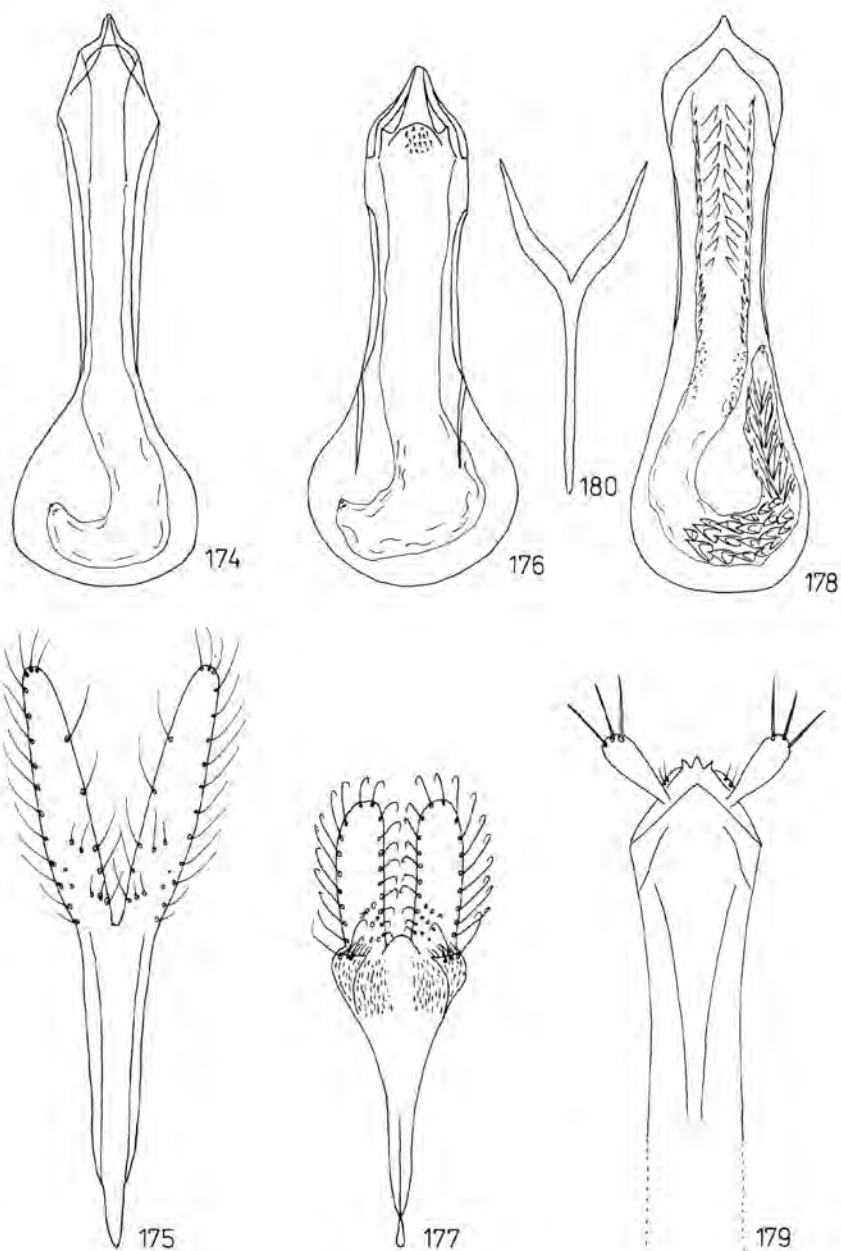
143-153. Male genitalia: 143-145 - *Spermophagus complexus*, 145-148 - *S. maafensis*, 149-151 - *S. klapperichi*, 152, 153 - *S. pubiventris*. 143, 146, 149, 152: median lobe, 144, 147, 148, 150, 153 :lateral lobes, 145: spiculum gastrale, 151: margin of lateral lobe



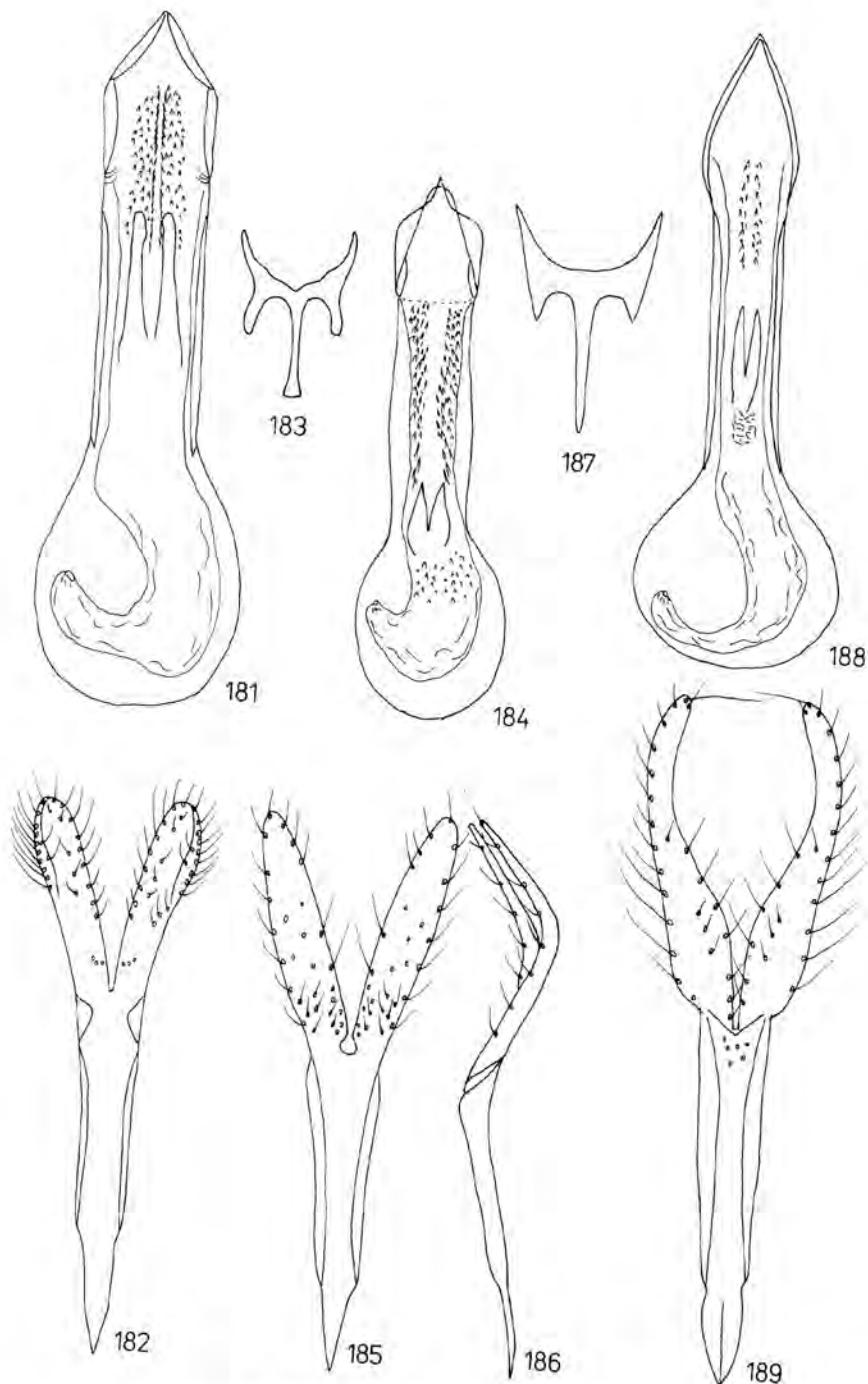
154-164. Male genitalia: 154-156 - *Spermophagus niger*, 157-159 - *S. aeneipennis*, 160, 161 - *S. kingsolveri*, 162-164 - *S. drak*. 154, 157, 160, 162: median lobe, 155, 158, 161, 163: lateral lobes, 156, 159, 164: spiculum gastrale



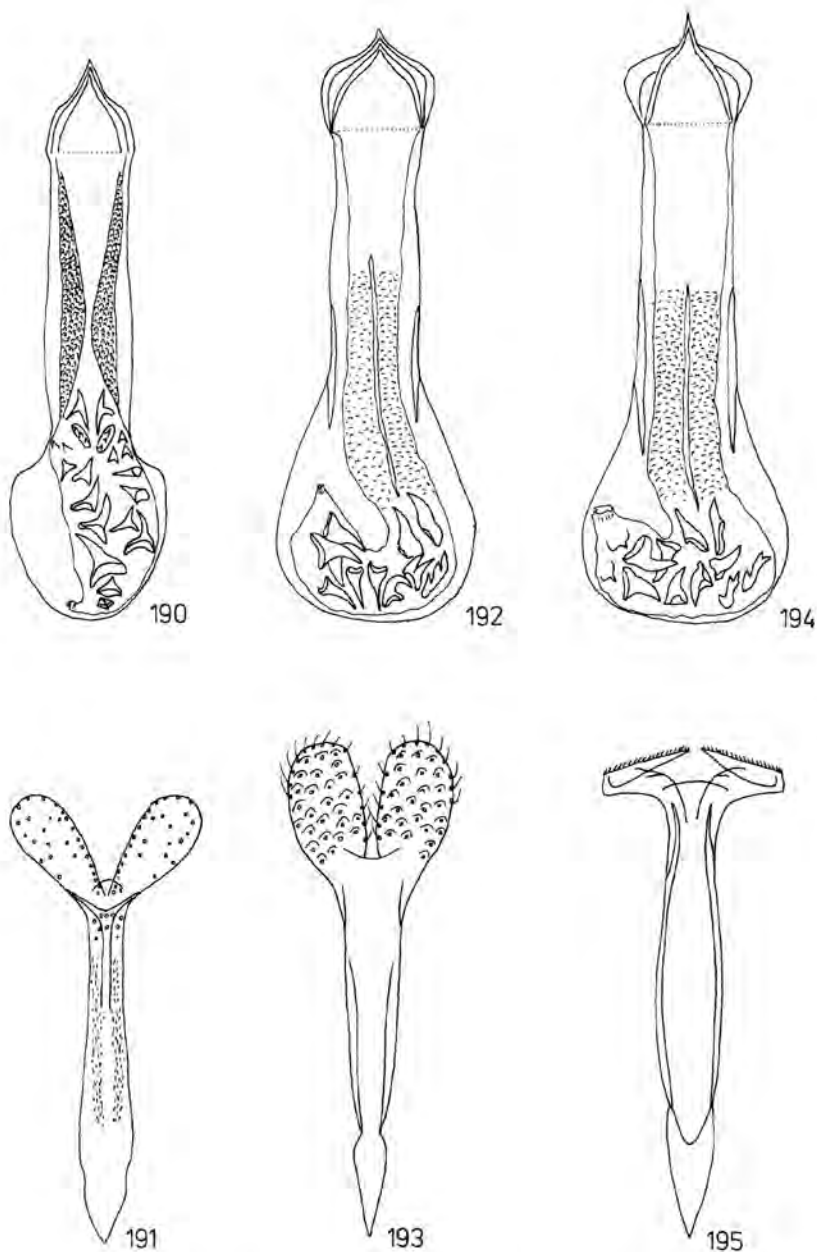
165-173. Male genitalia: 165-167 - *Sperophagus variolosopunctatus*, 168, 169 - *S. dongdokiensis*, 170, 171 - *S. punjabensis*, 172, 173 - *S. semiannulatus*. 165, 168, 170, 172: median lobe, 166, 169, 171, 173: lateral lobes, 167: spiculum gastrale



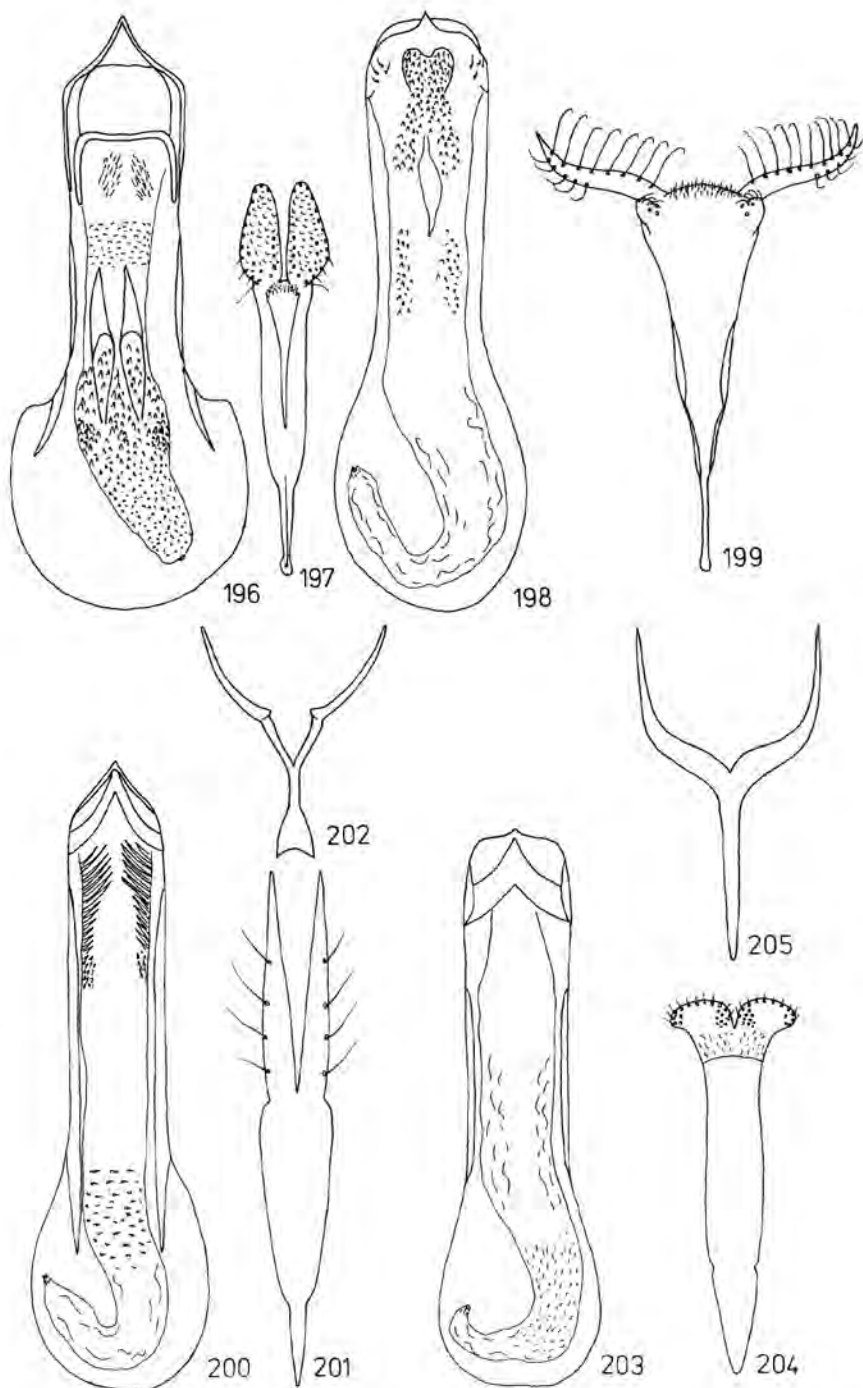
174-180. Male genitalia: 174, 175 - *Spermophagus incertus*, 176, 177 - *S. caucasicus*, 178-180 - *S. minutissimus*.
 174, 176, 178: median lobe, 175, 177, 179: lateral lobes, 180: spiculum gastrale



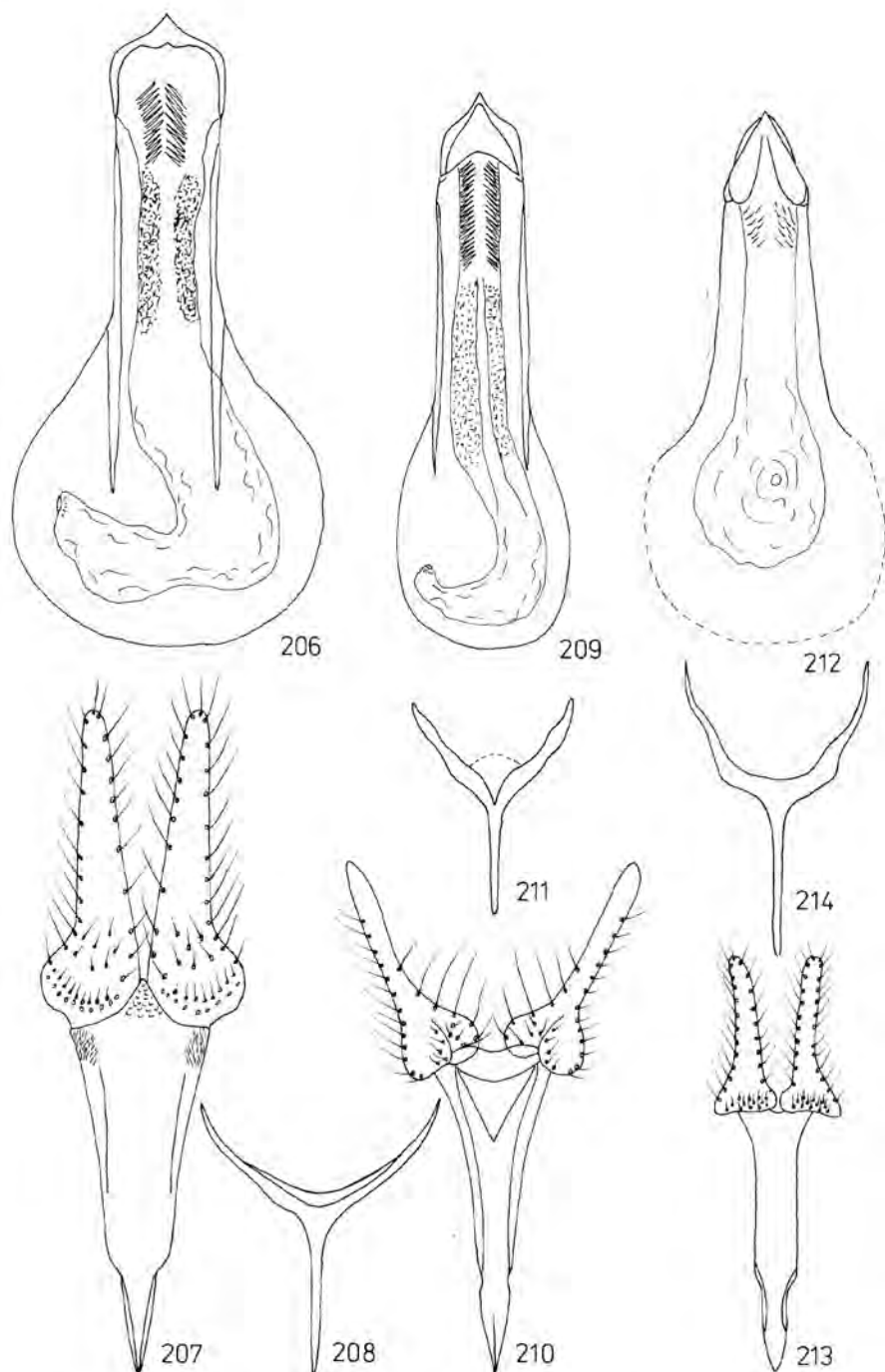
181-189. Male genitalia: 181-183 - *Spermophagus lindbergorum*, 184-187 - *S. humilis*, 188, 189 - *S. rufipes*. 181, 184, 188: median lobe, 182, 185, 186, 189: lateral lobes, 183, 187: spiculum gastrale



190-195. Male genitalia: 190, 191 - *Spermophagus okahandjensis*, 192, 193 - *S. transvaalensis*, 194, 195 - *S. endrodii*. 190, 192, 194: median lobe, 191, 193, 195: lateral lobes

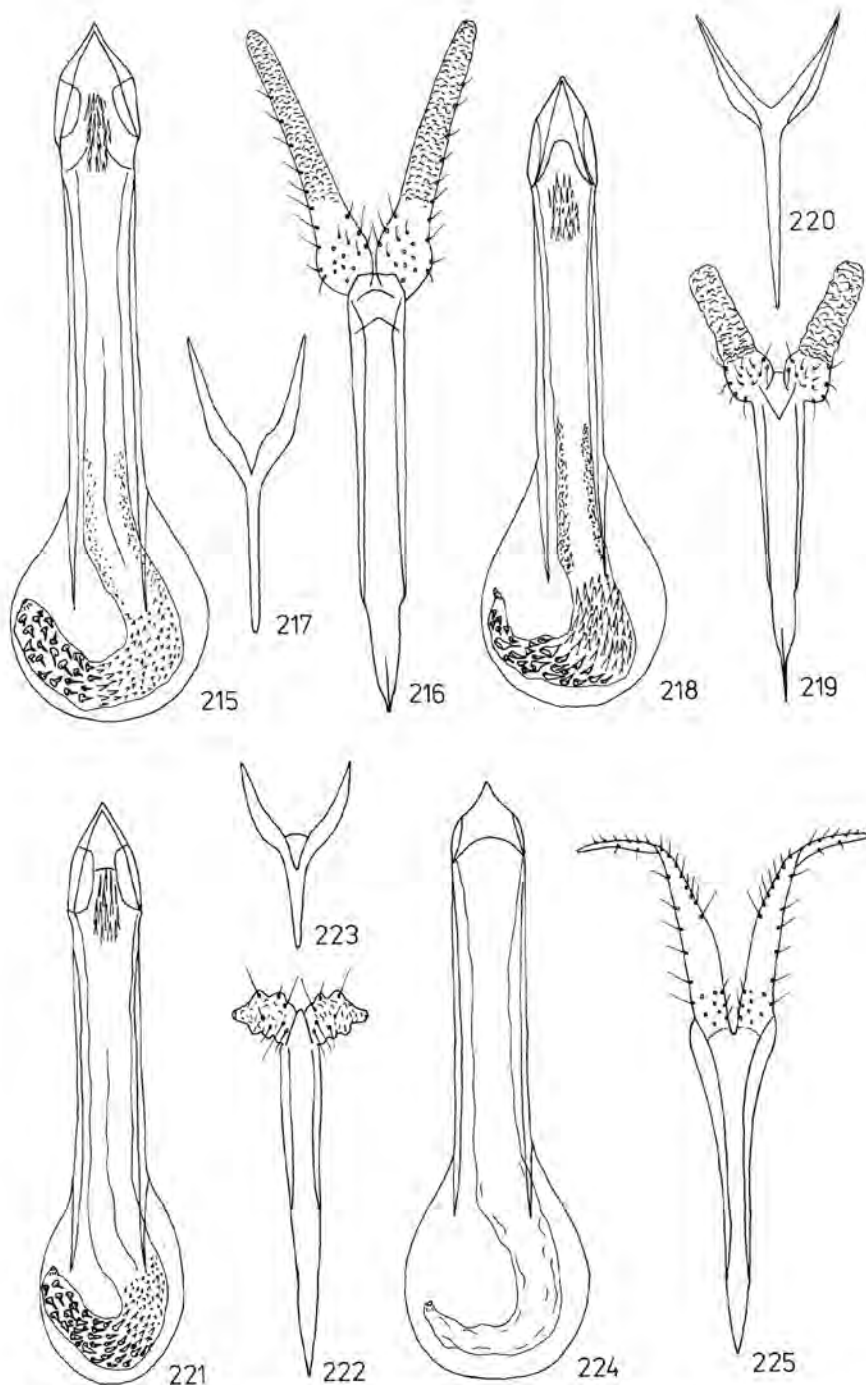


196-205. Male genitalia: 196, 197 - *Sperophagus caricus*, 198, 199 - *S. decellei*, 200-202 - *S. pygopubens*, 203-205 - *S. cicatricosus*. 196, 198, 200, 203: median lobe, 197, 199, 201, 204: lateral lobes, 202, 205: spiculum gastrale

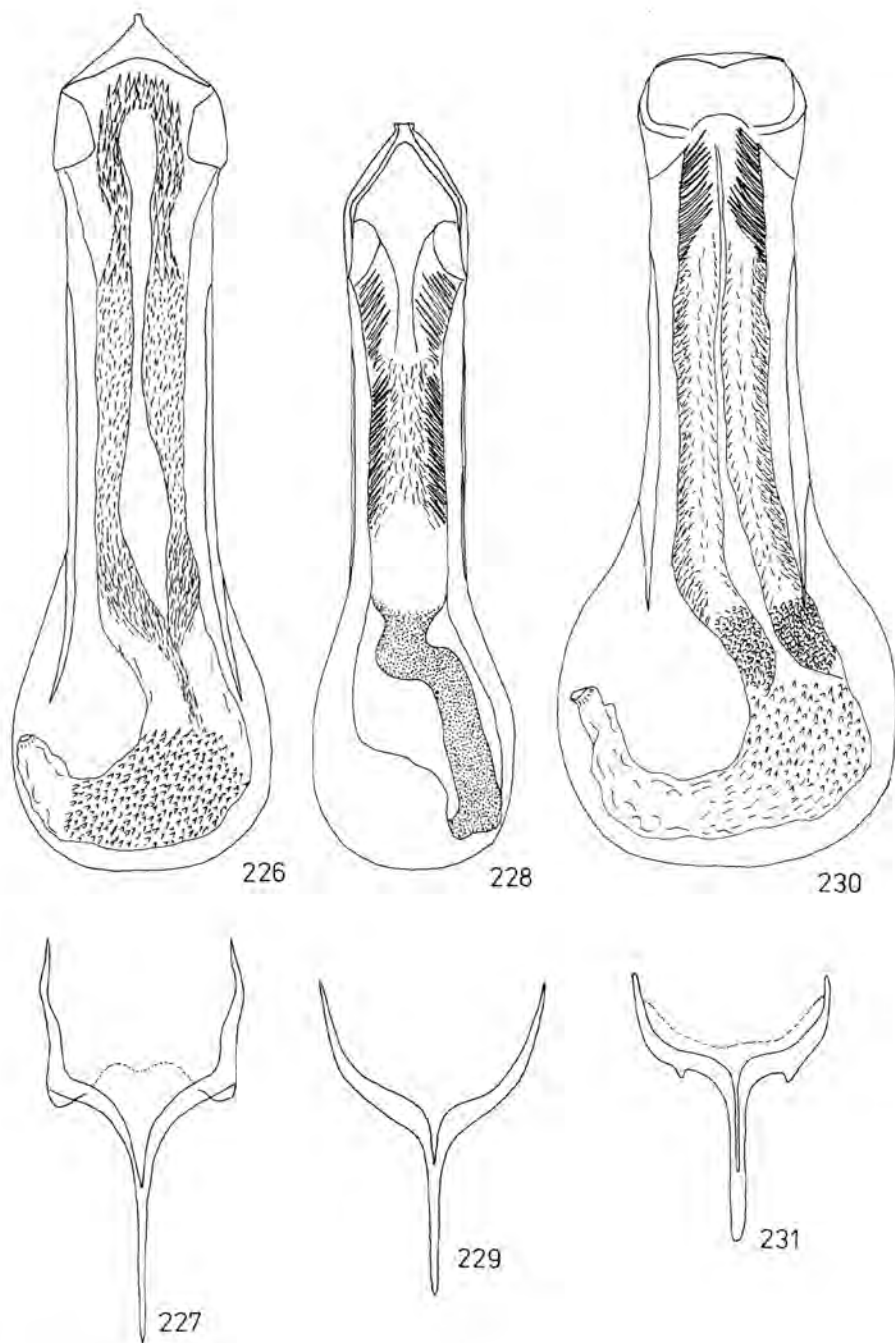


206-214. Male genitalia: 206-208 - *Spermophagus murtulai*, 209-211 - *S. malvacearum*, 212-214 - *S. schroederi*.

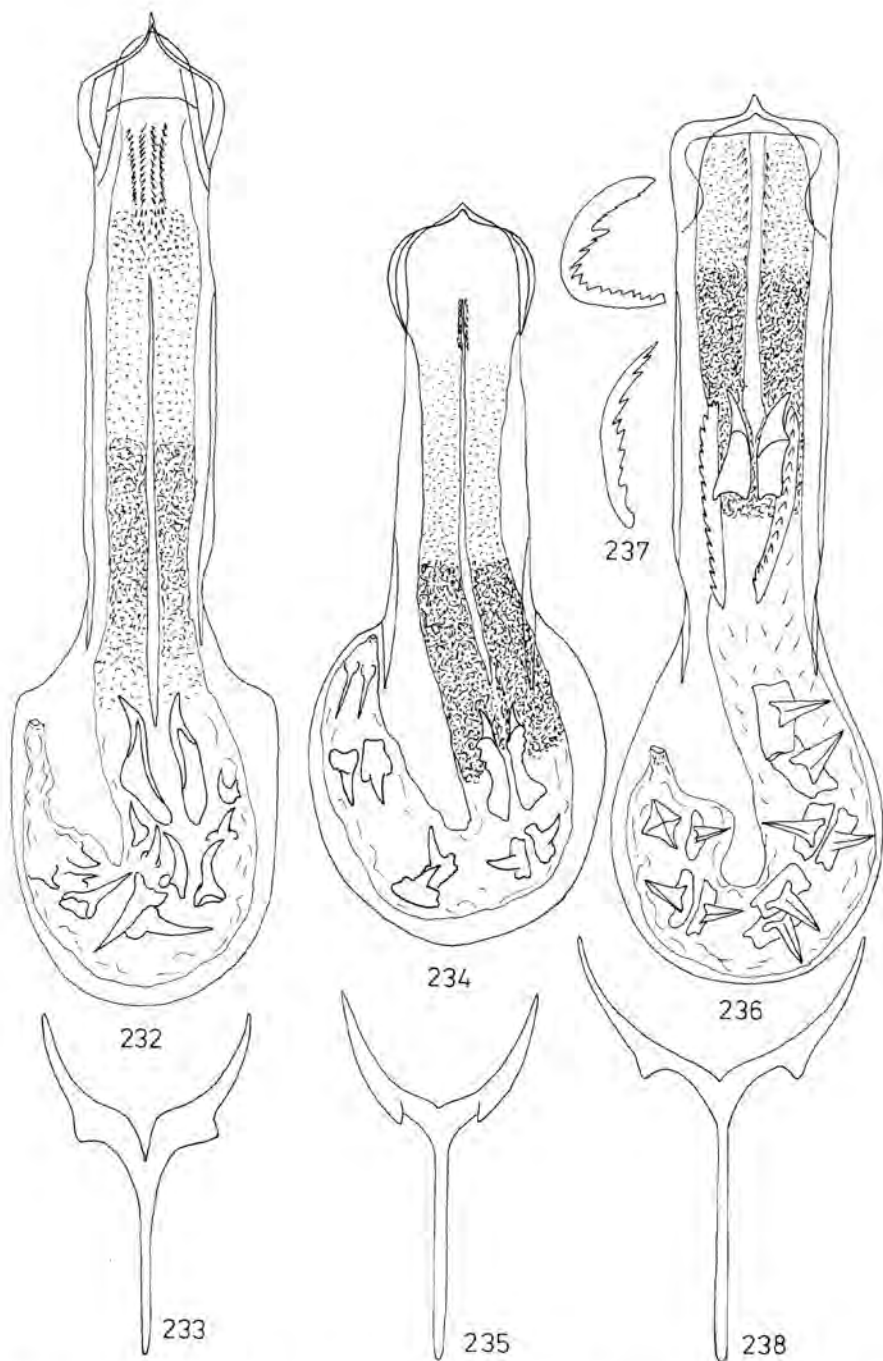
206, 209, 212: median lobe, 207, 210, 213: lateral lobes, 208, 211, 214: spiculum gastrale



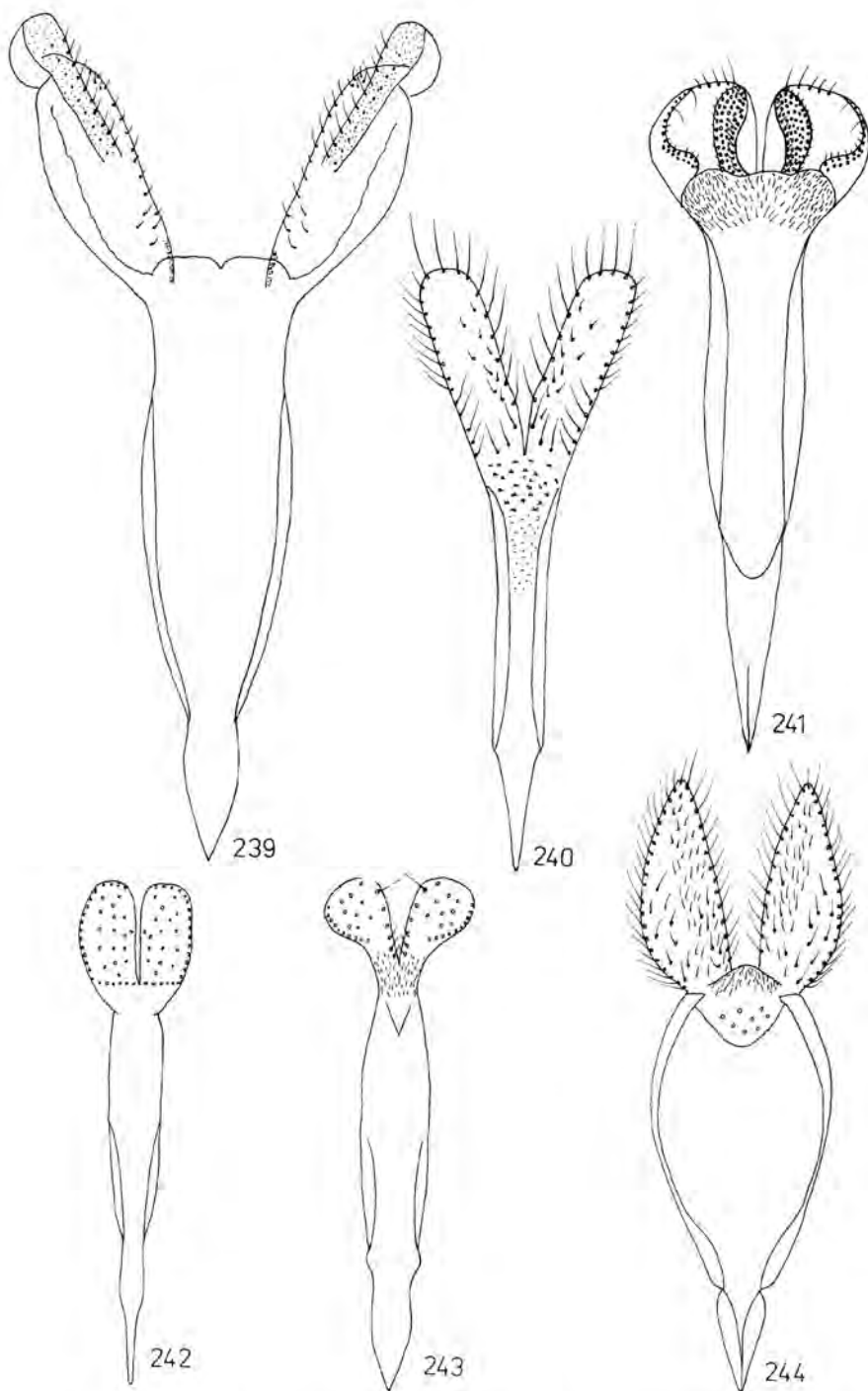
215-225. Male genitalia: 215-217 - *Spermophagus negligens*, 218-220 - *S. albosparus*, 221-223 - *S. minutus*, 224, 225 - *S. kuskai*. 215, 218, 221, 224: median lobe, 216, 219, 222, 225: lateral lobes, 217, 220, 223: spiculum gastrale



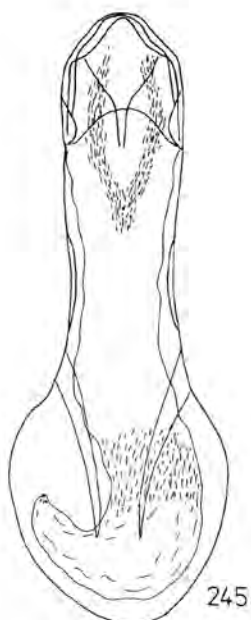
226-231. Male genitalia: 226, 227 - *Spermophagus babaulti*, 228, 229 - *S. tristis*, 230, 231 - *S. kannegieteri*. 226, 228, 230: median lobe, 227, 229, 231: spiculum gastrale



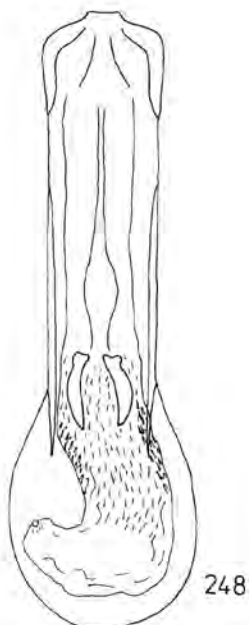
232-238. Male genitalia: 232, 233 - *Spermophagus divergens*, 234, 235 - *S. maynei*, 236-238 - *S. latithorax*. 232, 234, 236: median lobe, 233, 235, 238: spiculum gastrale, 237: variation of serrate plate of internal sac



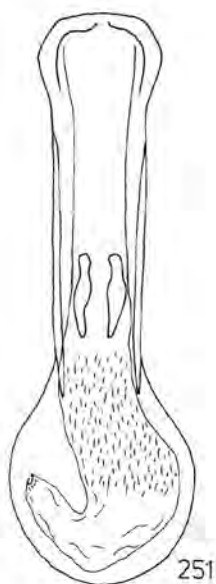
239-243. Lateral lobes: 239 - *Sperophagus divergens*, 240 - *S. tristis*, 241 - *S. babaulti*, 242 - *S. maynei*, 243 - *S. latihorax*, 244 - *S. kannegieteri*



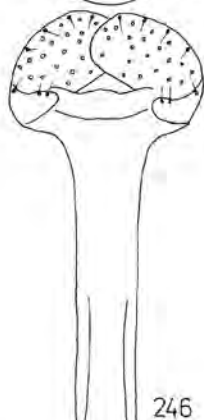
245



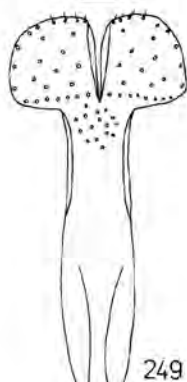
248



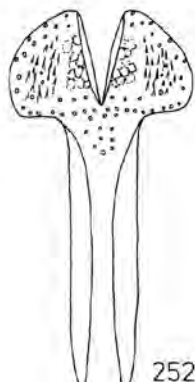
251



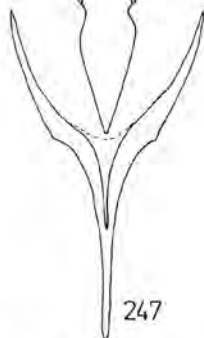
246



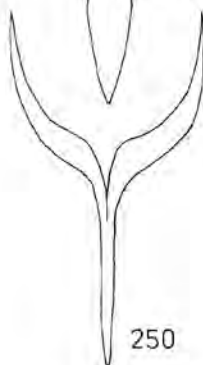
249



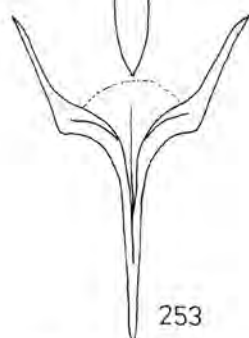
252



247

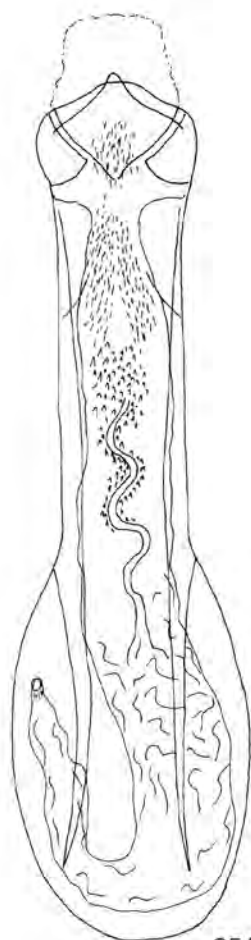


250

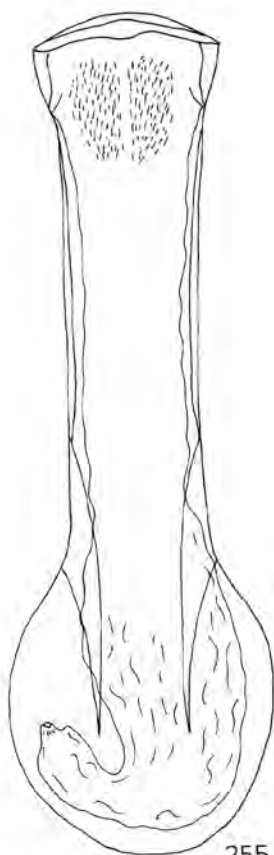


253

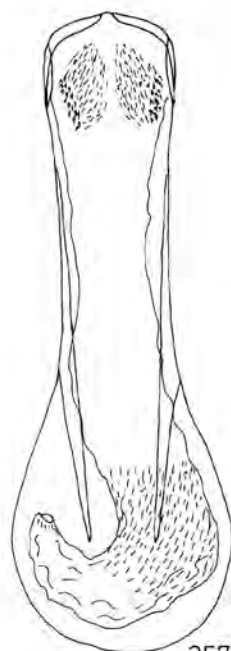
245-253. Male genitalia: 245-247 - *Sperrophagus tandalensis*, 248-250 - *S. bimaculatus*, 251-253 - *S. ciliatipes*.
 245, 248, 251: median lobe, 246, 249, 252: lateral lobes, 247, 250, 253: spiculum gastrale



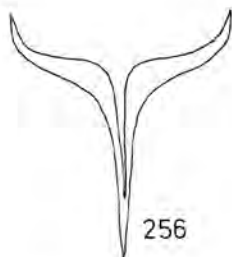
254



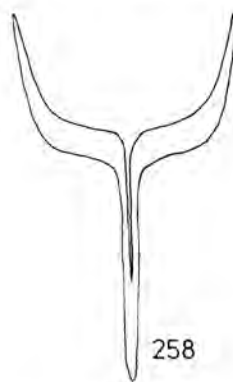
255



257

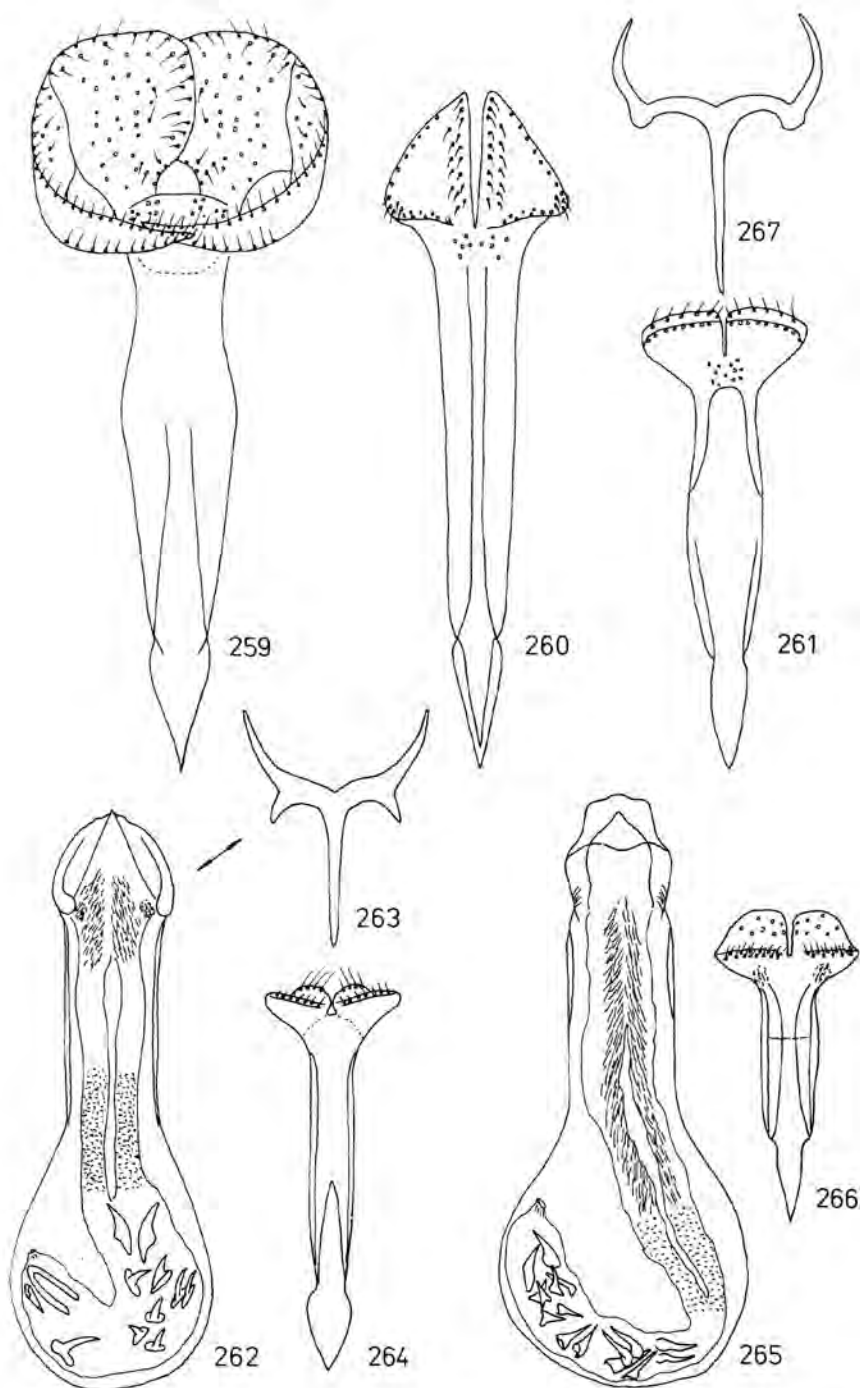


256

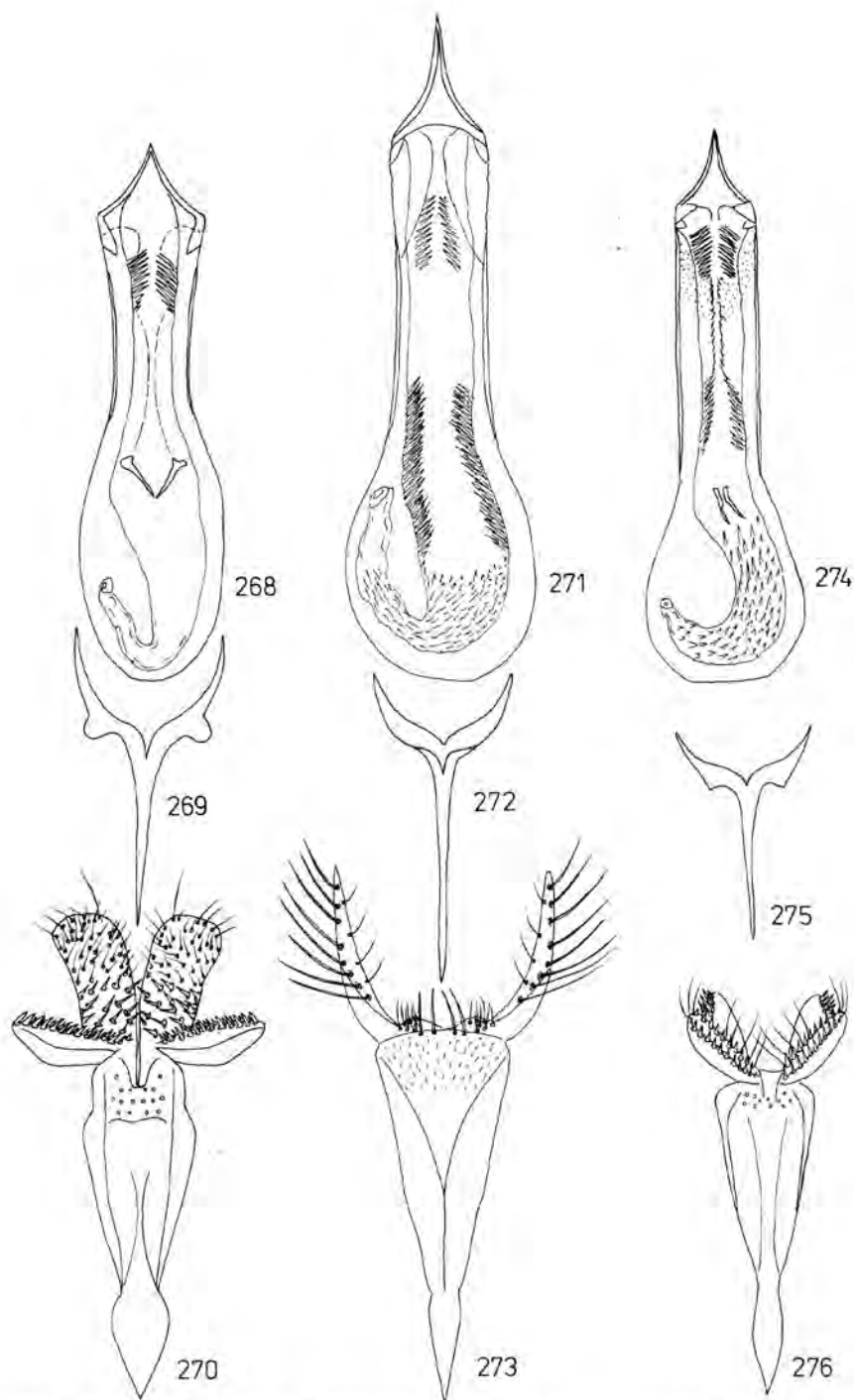


258

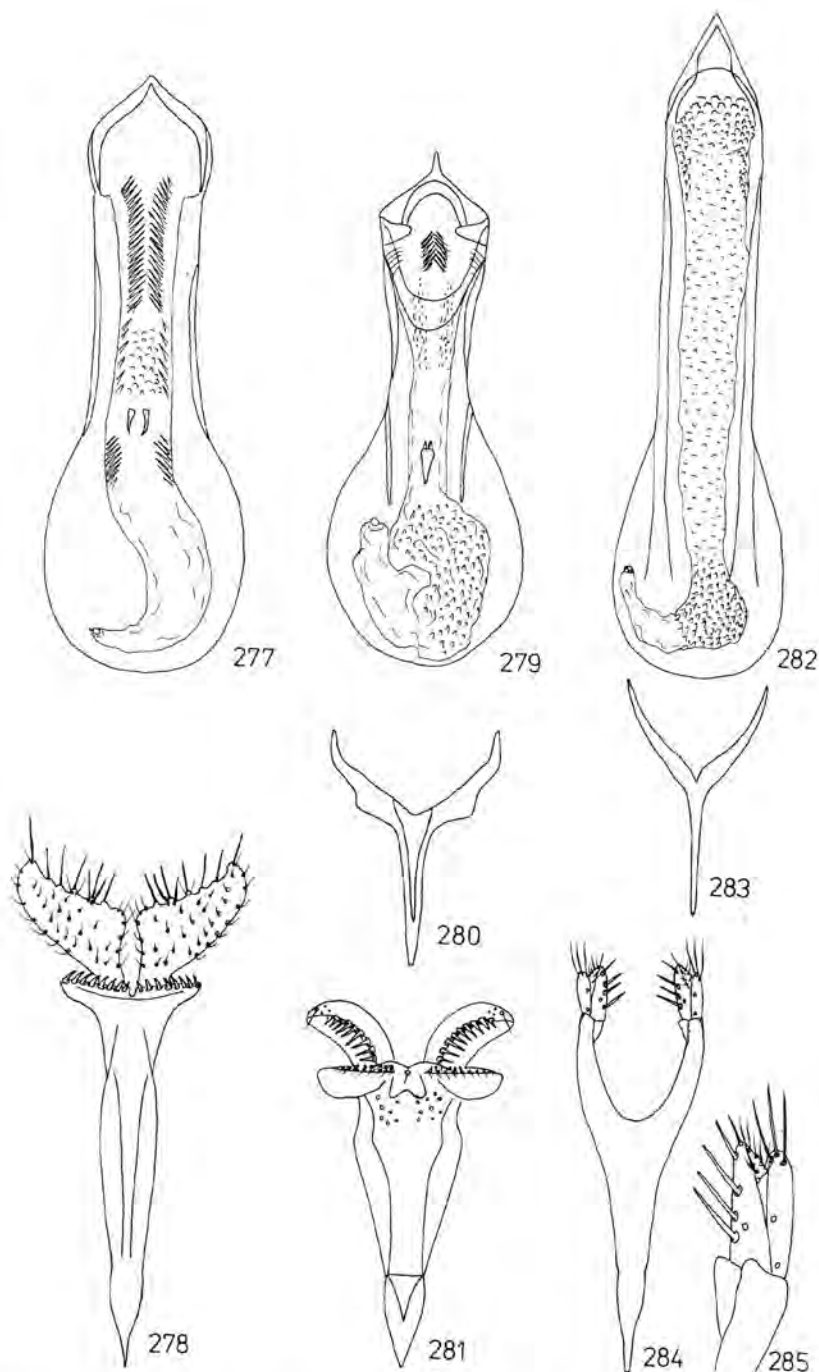
254-258. Male genitalia: 254 - *Sperophagus houtentonus*, 255, 256 - *S. newtoni*, 257, 258 - *S. eichleri*. 254, 255, 257: median lobe, 256, 258: spiculum gastrale



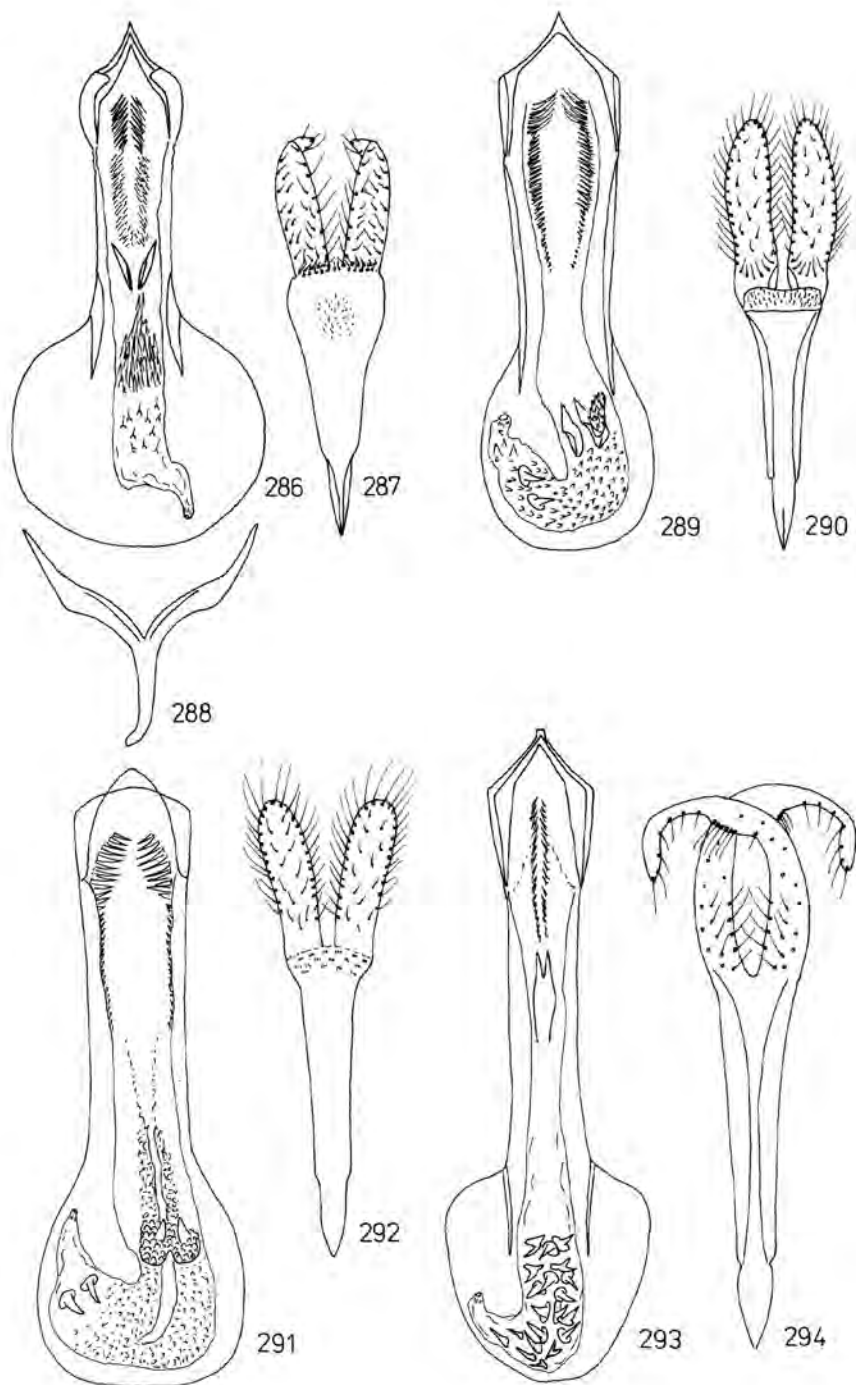
259-267. Male genitalia: 259 - *Spermophagus hottenuotus*, 260 - *S. newtoni*, 261 - *S. eichleri*, 262-264 - *S. moerens*, 265-267 - *S. ruandanus*. 259-261, 264, 266: lateral lobes, 262, 265: median lobe, 263, 267: spiculum gastrale



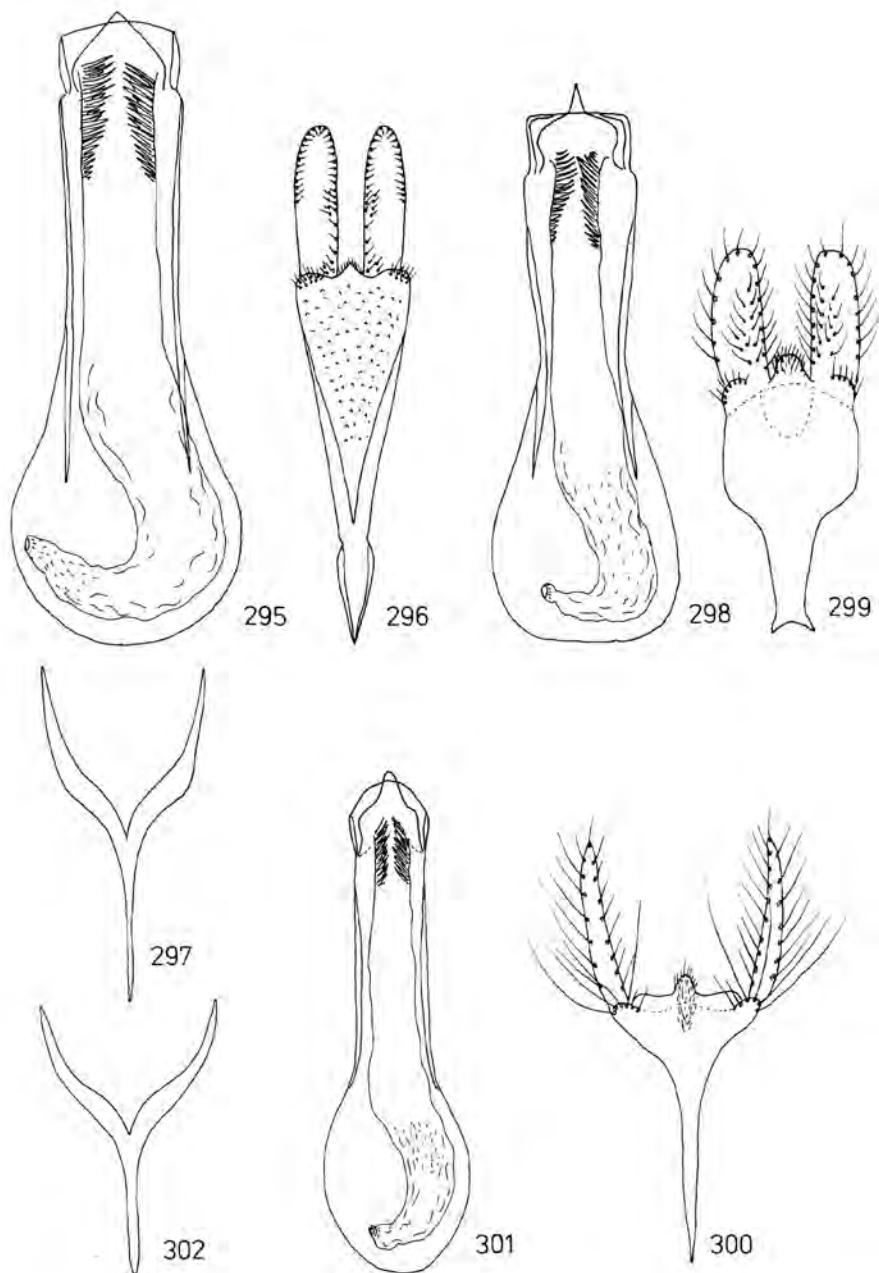
268-276. Male genitalia: 268-270 - *Spermophagus multipunctatus*, 271--273 - *S. multiguttatus*, 274-276 - *S. marmoreus*. 268, 271, 274: median lobe, 269, 272, 275: spiculum gastrale, 270, 273, 276: lateral lobes



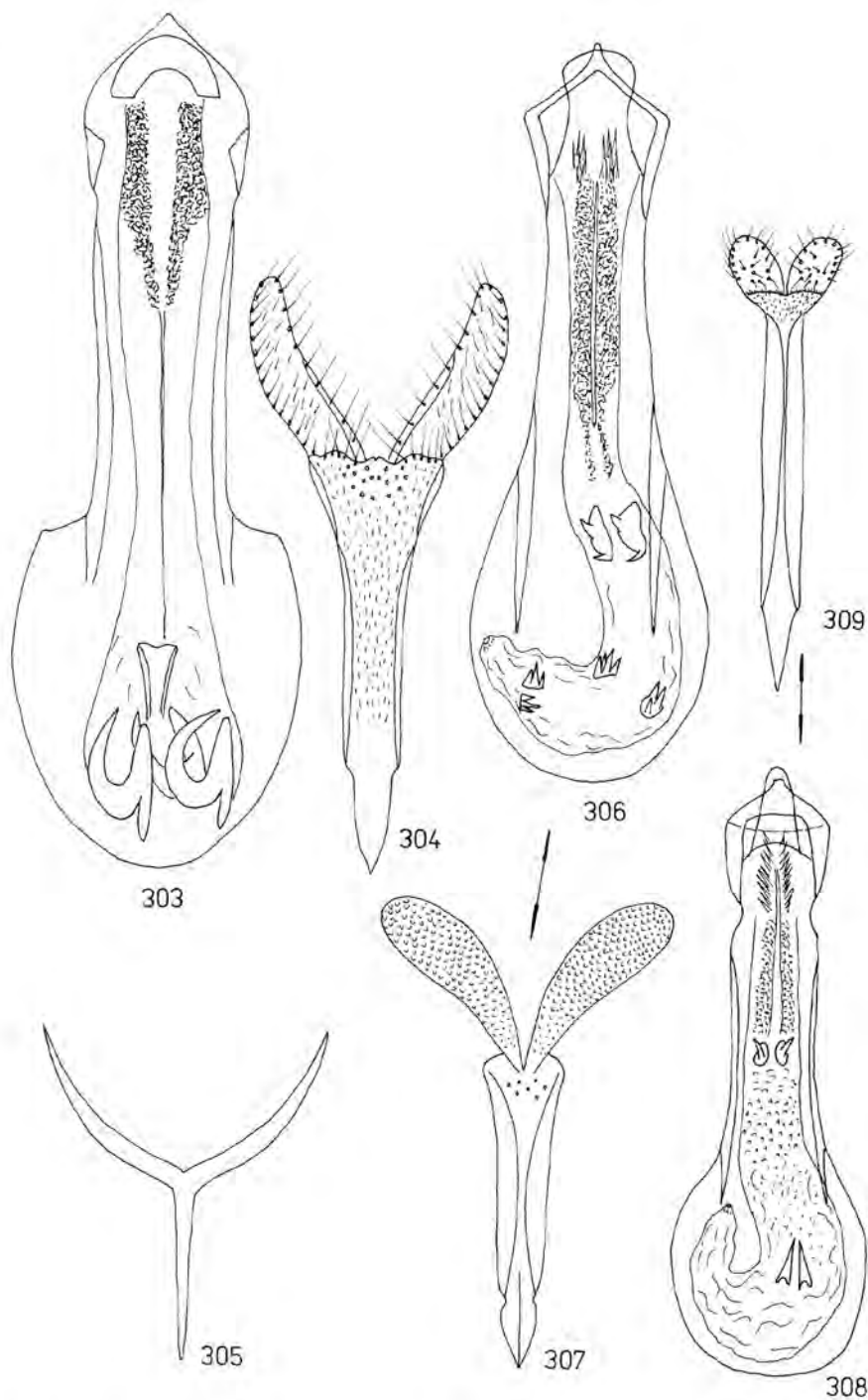
277-285. Male genitalia: 277, 278 - *Spermophagus monardi*, 279-281 - *S. multifloccosus*, 282-285 - *S. brincki*. 277, 279, 282: median lobe, 278, 281, 284: lateral lobes, 285: apex of lateral lobe, 280, 283: spiculum gastrale



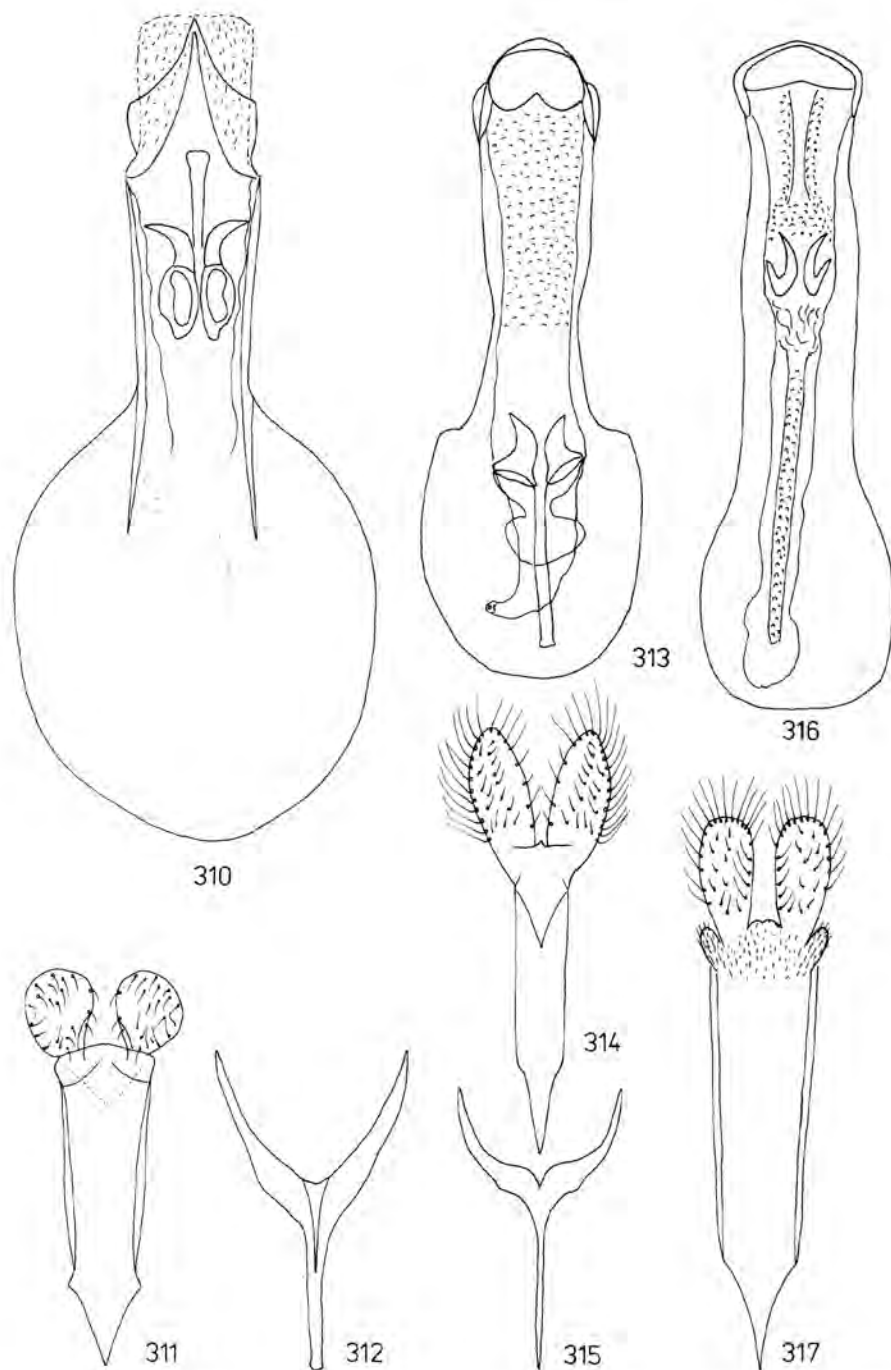
286-294. Male genitalia: 286-288 - *Spernophagus stemmleri*, 289, 290 - *S. johnsoni*, 291, 292 - *S. samuelsoni*, 293, 294 - *S. bengalicus*. 286, 289, 291, 293: median lobe, 287, 290, 292, 294: lateral lobes. 288: spiculum gastrale



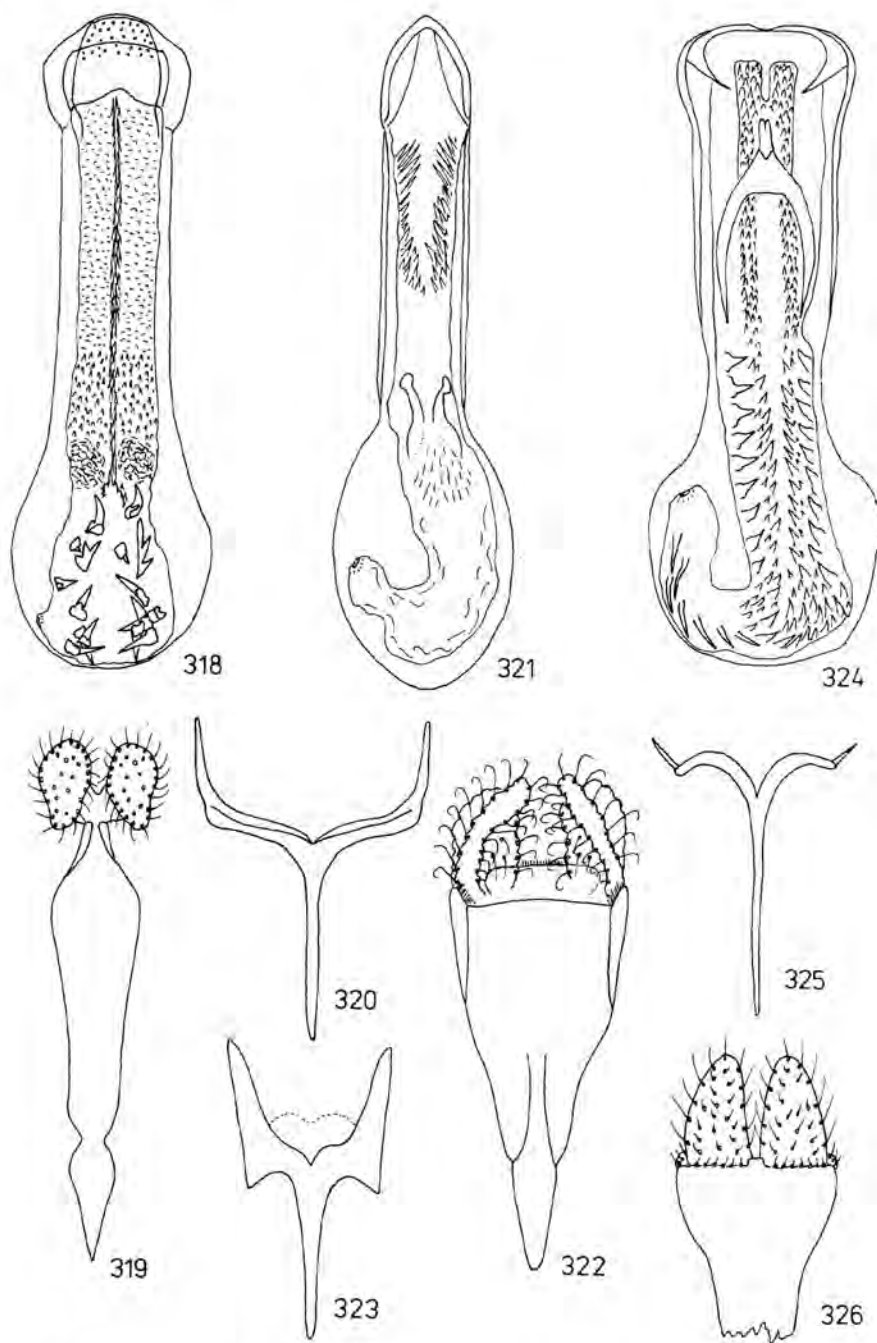
295-302. Male genitalia: 295-297 - *Spermophagus kochi*, 298, 299 - *S. albosunralis*, 300-302 - *S. inlineolatus*. 295, 298, 301: median lobe, 296, 299, 300: lateral lobes, 297, 302: spiculum gastrale



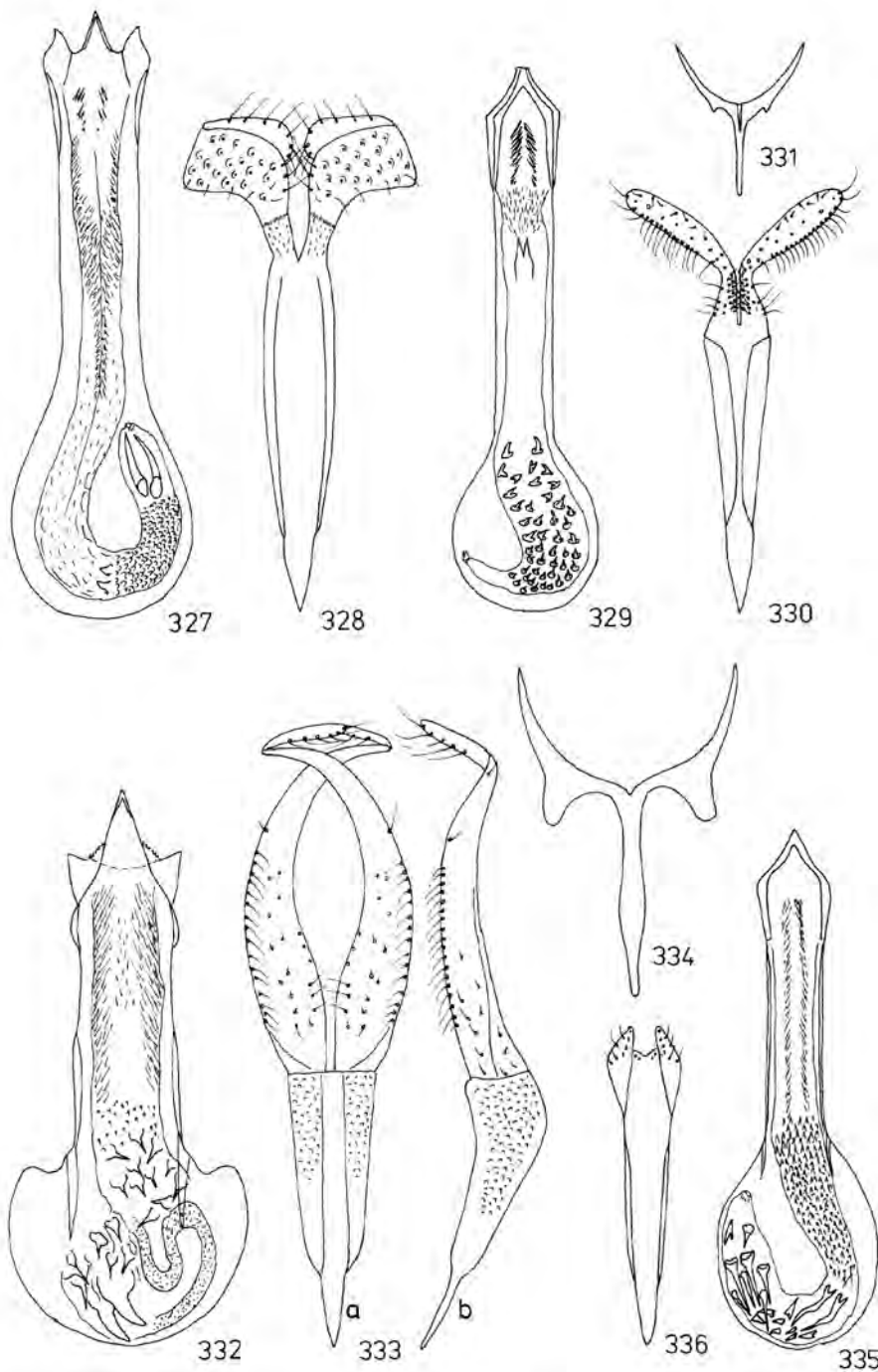
303-309. Male genitalia: 303-305 - *Spermophagus palmi*, 306, 307 - *S. vietnamensis*, 308, 309 - *S. siamensis*. 303, 306, 308: median lobe, 304, 307, 309: lateral lobes, 305: spiculum gastrale



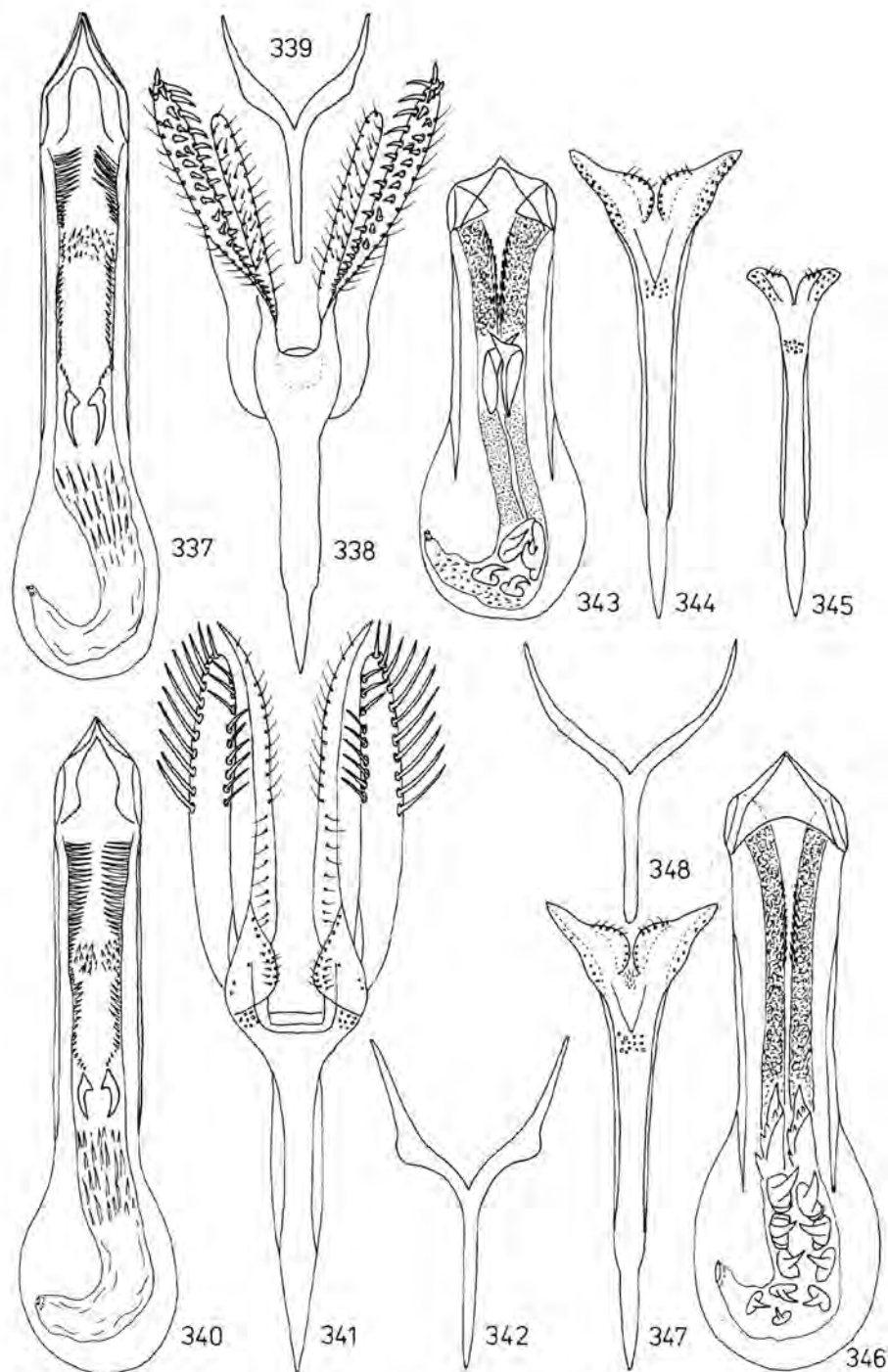
310-317. Male genitalia: 310-312 - *Spermophagus excavatus*, 313-315 - *S. ligatus*, 316, 317 - *S. maai*. 310, 313, 316: median lobe, 311, 314, 317: lateral lobes, 312, 315: spiculum gastrale



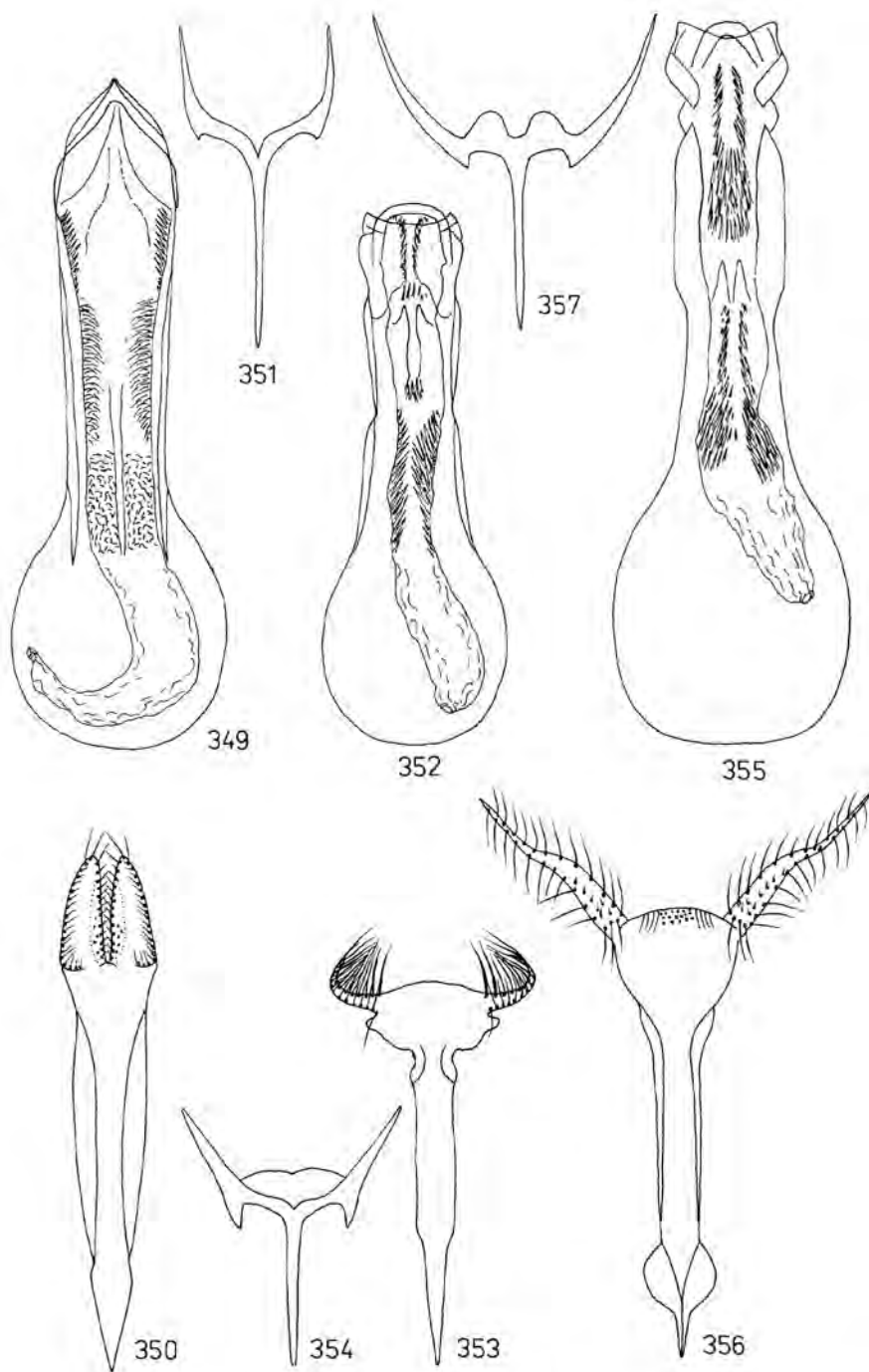
318-326. Male genitalia: 318-320 - *Spermophagus posticus*, 321-323 - *S. ceylonicus*, 324-326 - *S. rufonotatus*. 318, 321, 324: median lobe, 319, 322, 326: lateral lobes, 320, 323, 325: spiculum gastrale.



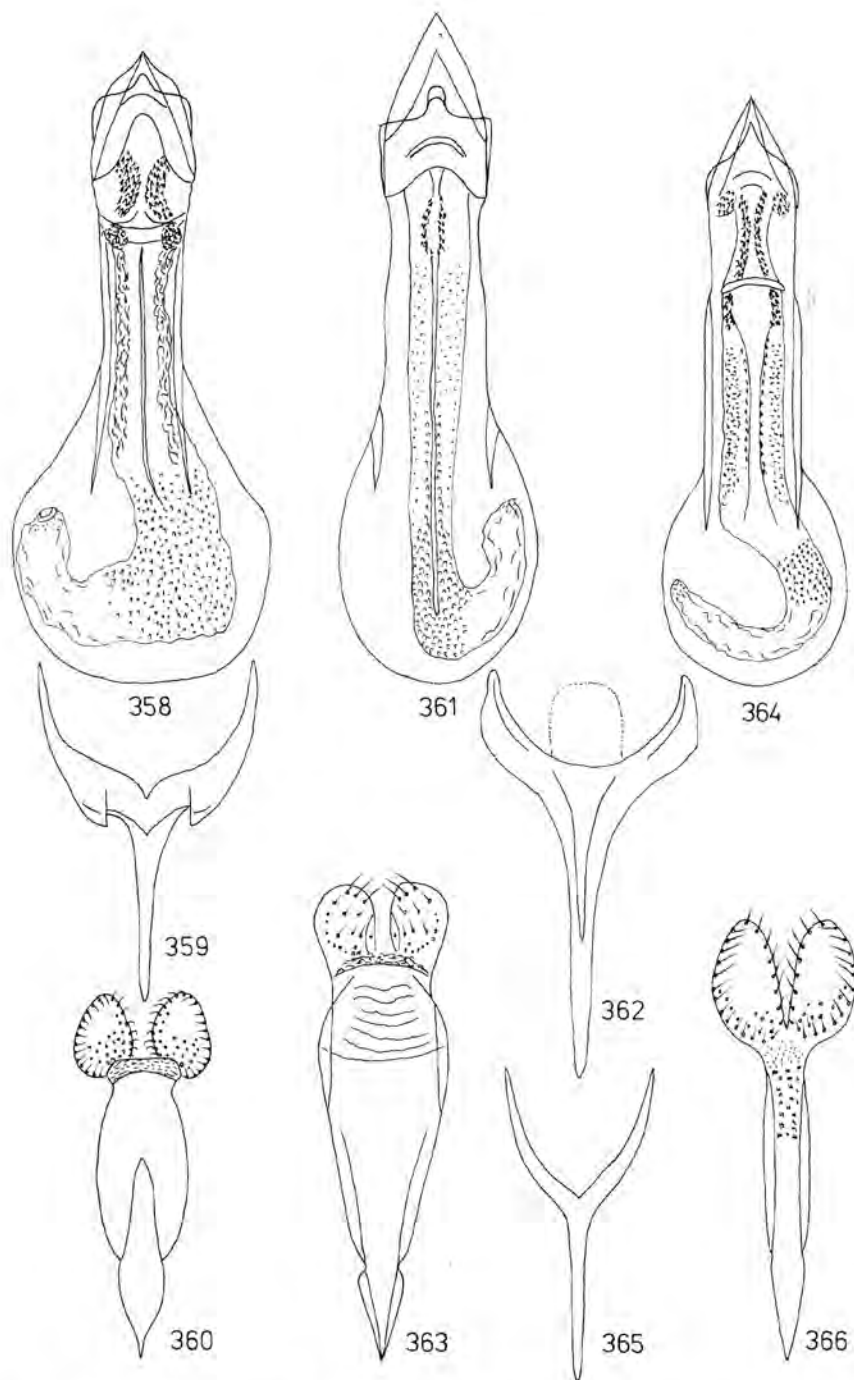
327-336. Male genitalia: 327, 328 - *Spermophagus coronatus*, 329-331 - *S. maurus*, 332-334 - *S. scotti*, 335, 336 - *S. somalicus*. 327, 329, 332, 335: median lobe, 328, 330, 333 (a - ventral, b - lateral), 336: lateral lobes, 331, 334: spiculum gastrale



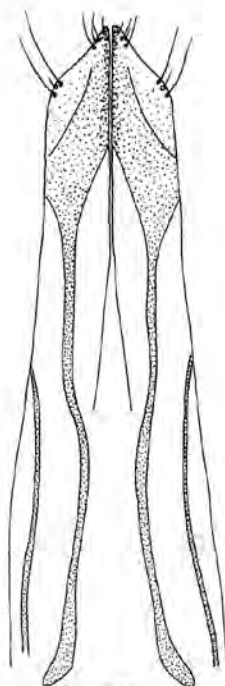
337-348. Male genitalia: 337-339 - *Spermophagus albomaculatus*, 340-342 - *S. pilipes*, 343-345 - *S. psaffenbergeri*, 346-348 - *S. cederholmi*. 337, 340, 343, 346: median lobe, 338, 341, 344, 345 (teratological), 347: lateral lobes, 339, 342, 348: spiculum gastrale



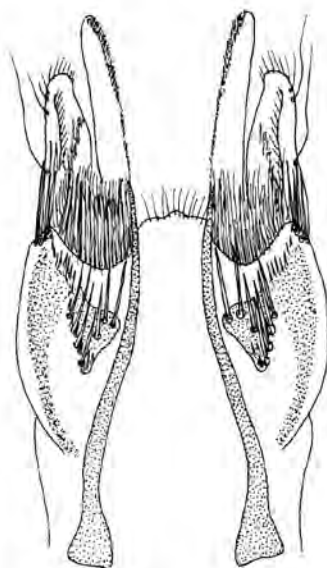
349-357. Male genitalia: 349-351 - *Spermophagus sophorae*, 352-354 - *S. mannarensis*, 355-357 - *S. coimbatorensis*. 349, 352, 355: median lobe, 350, 353, 356: lateral lobes, 351, 354, 357: spiculum gastrale



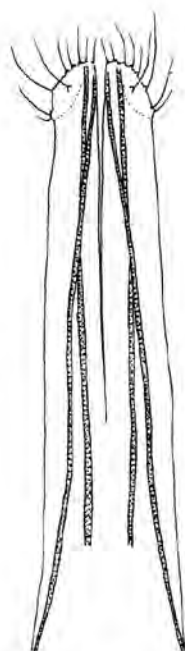
358-366. Male genitalia: 358-360 - *Spermophagus uivilitius*, 361-363 - *S. sinensis*, 364-366 - *S. abdominalis*. 358, 361, 364: median lobe, 360, 363, 366: lateral lobes, 359, 362, 365: spiculum gastrale



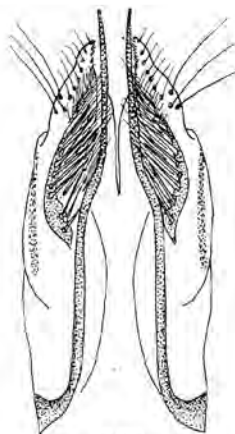
367



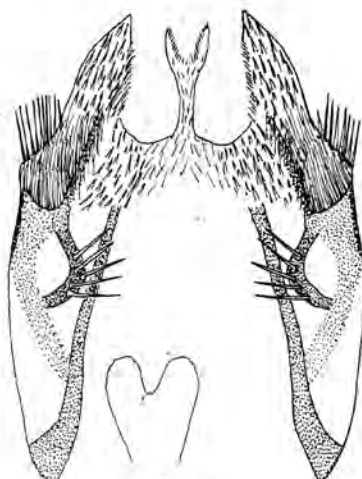
368



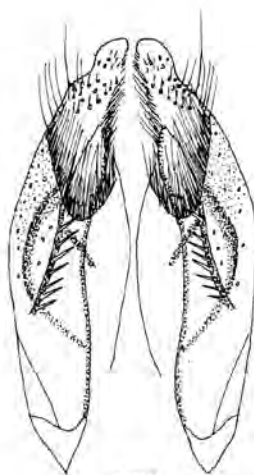
369



370

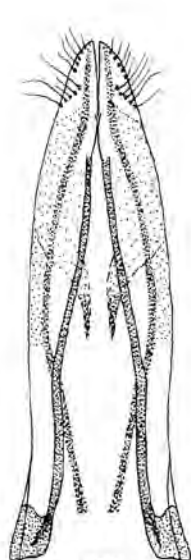


371

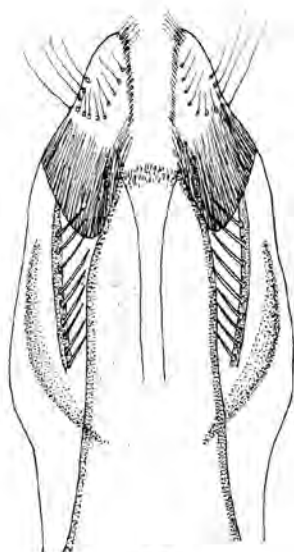


372

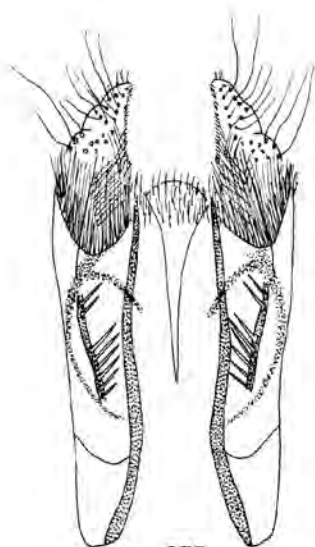
367-372. Ovipositor: 367 - *Spermophagus abdominalis*, 368 - *S. albomaculatus*, 369 - *S. babaulti*, 370 - *S. albosparsus*, 371 - *S. bimaculatus*, 372 - *S. altaicus*



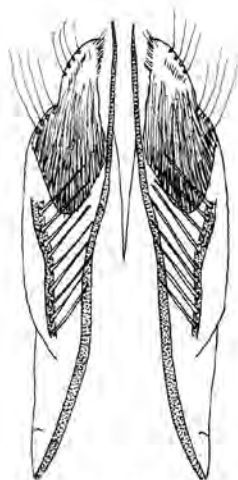
373



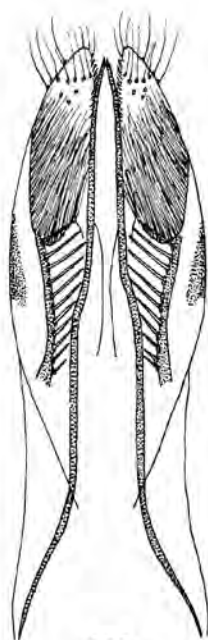
374



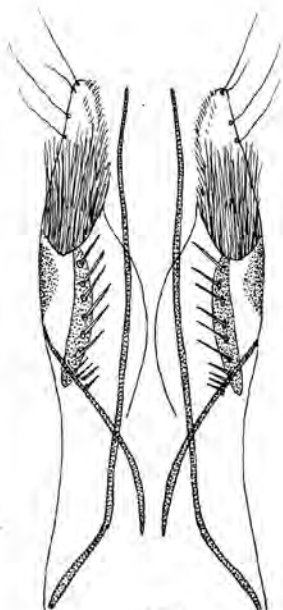
375



376

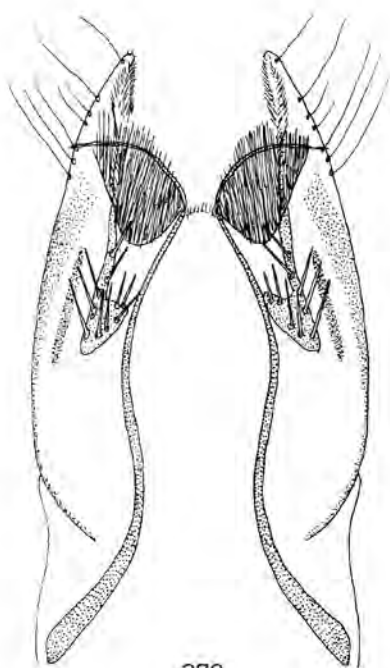


377

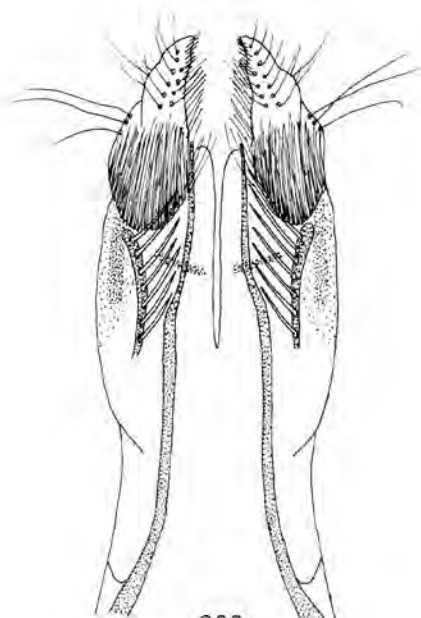


378

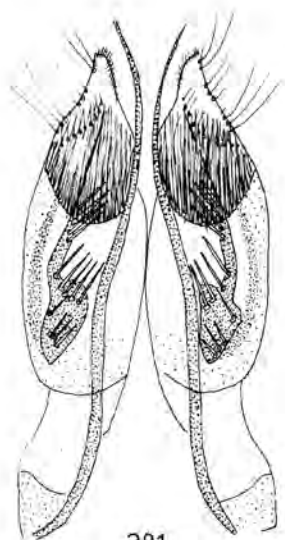
373-378. Ovipositor: 373 - *Spermophagus brincki*, 374 - *S. calystegiae*, 375 - *S. canus*, 376 - *S. caucasicus*, 377 - *S. caricus*, 378 - *S. cederholmi*



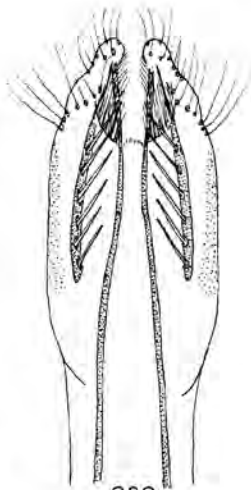
379



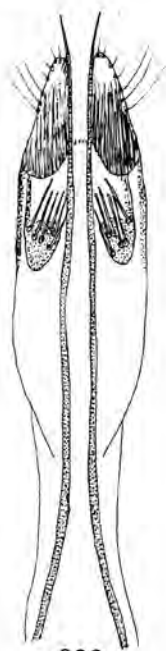
380



381

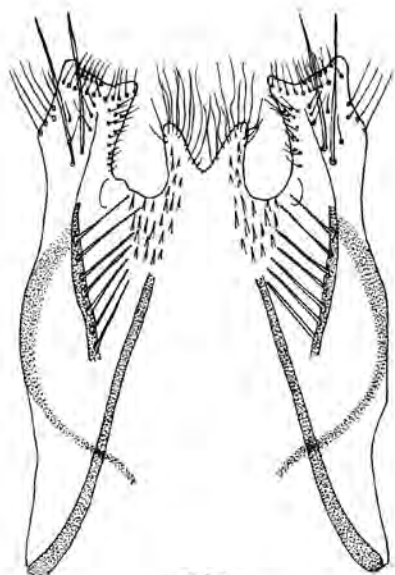


382

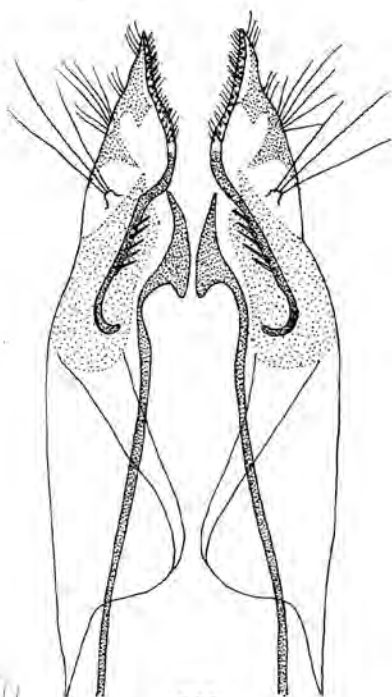


383

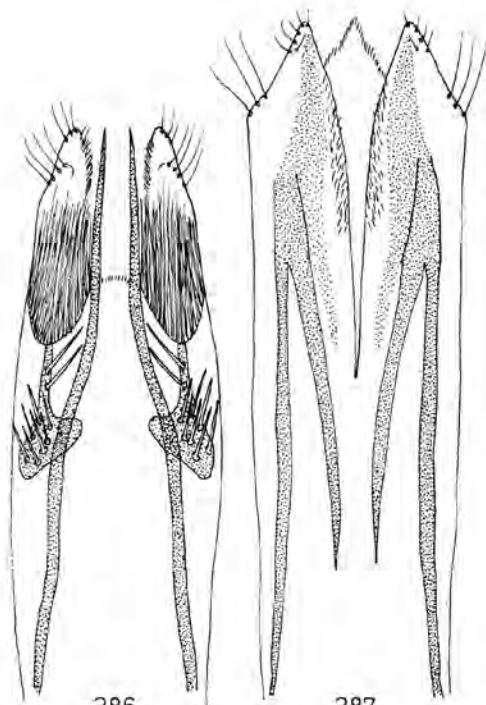
379-383. Ovipositor: 379 - *Sperophagus ceylonicus*, 380 - *S. confusus*, 381 - *S. decellei*, 382 - *S. cicatricosus*,
383 - *S. drak*



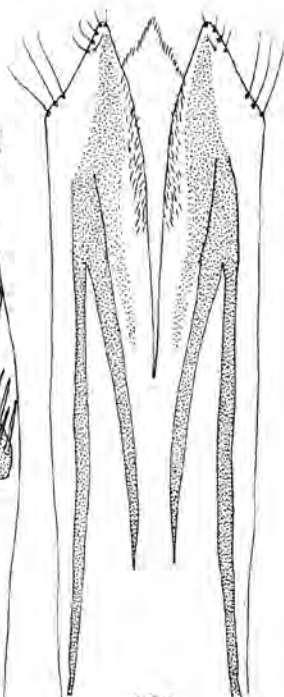
384



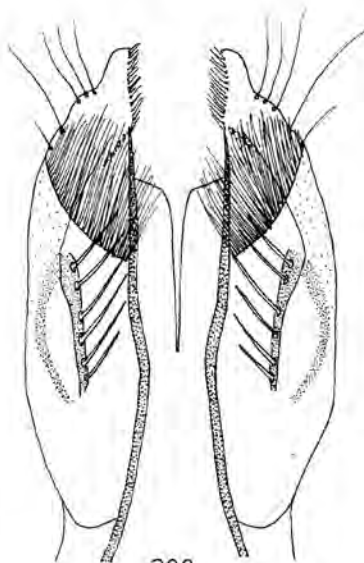
385



386

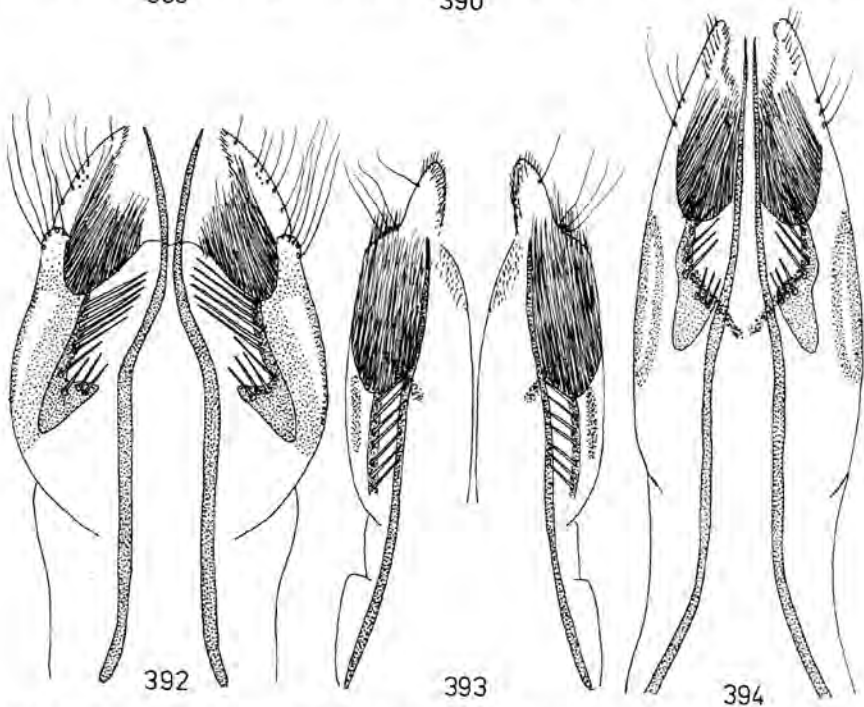
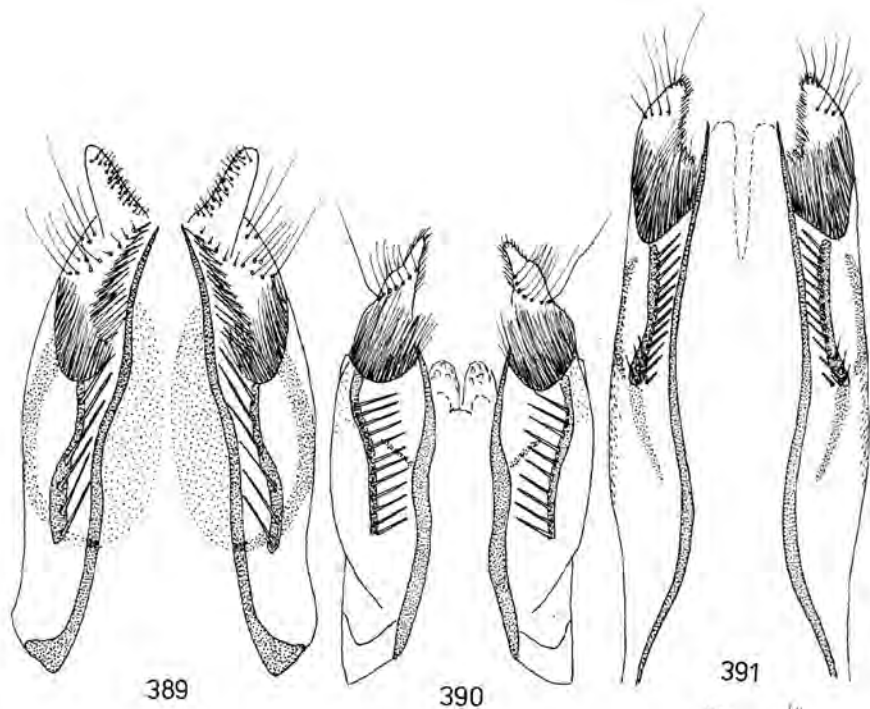


387

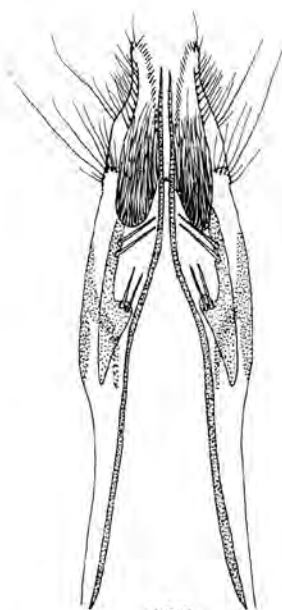


388

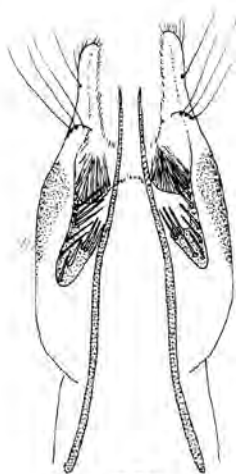
384-388. Ovipositor: 384 - *Spermophagus eichleri*, 385 - *S. hottentotus*, 386 - *S. humilis*, 387 - *S. kannegieterei*,
388 - *S. klapperichi*



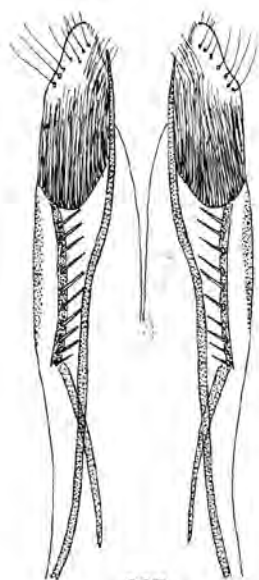
389-394. Ovipositor: 389 - *Spermophagus kochi*, 390 - *S. kuesteri*, 391 - *S. latithorax*, 392 - *S. ligatus*, 393 - *S. maafensis*, 394 - *S. malvacearum*



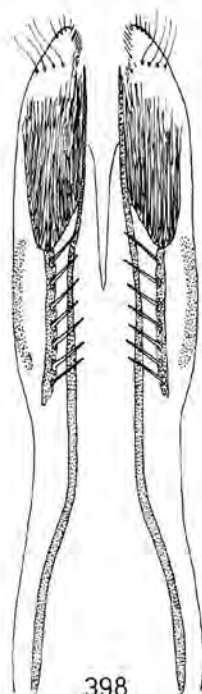
395



396



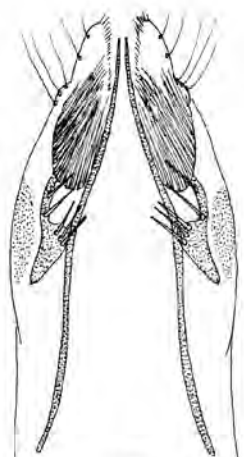
397



398

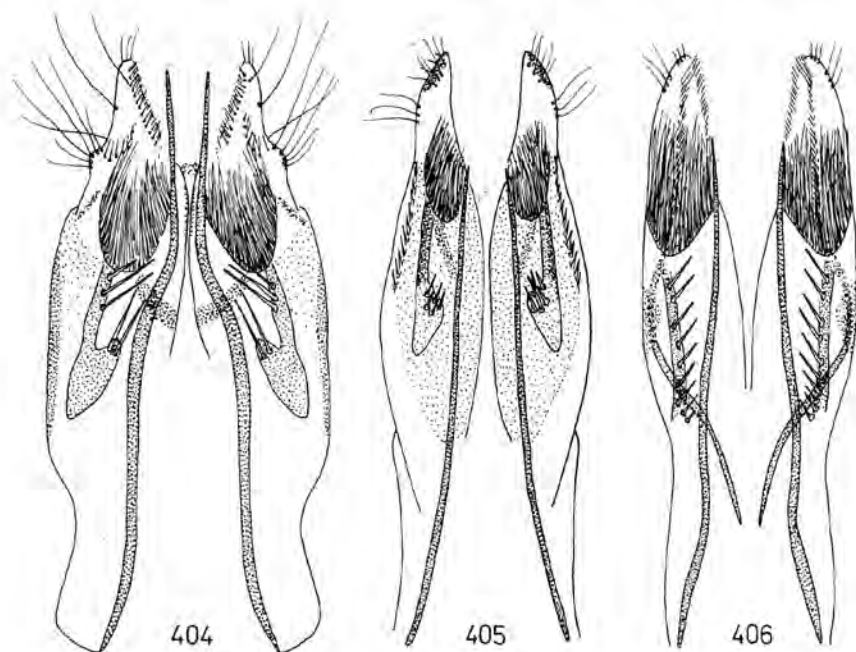
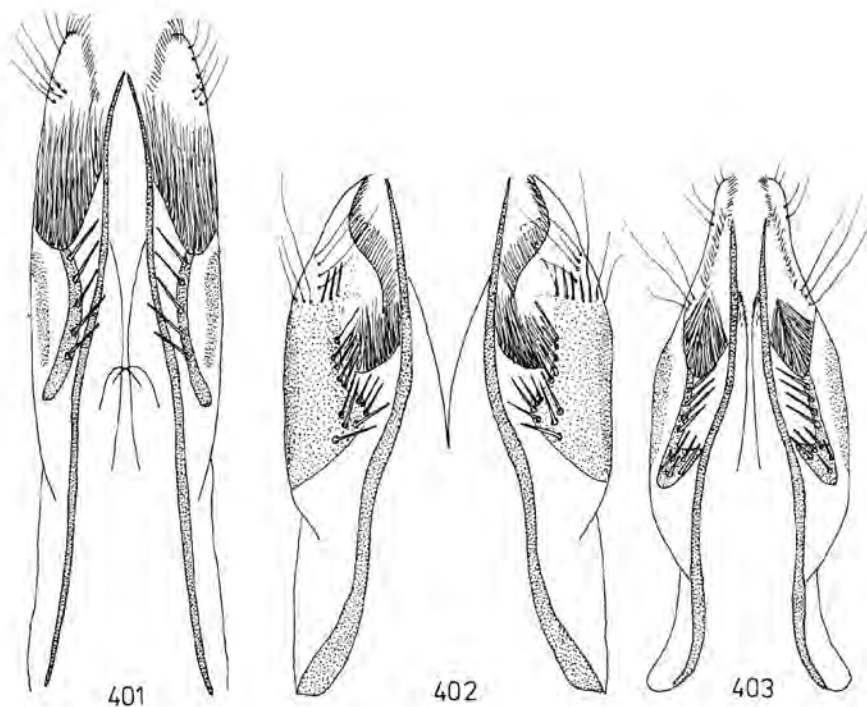


399

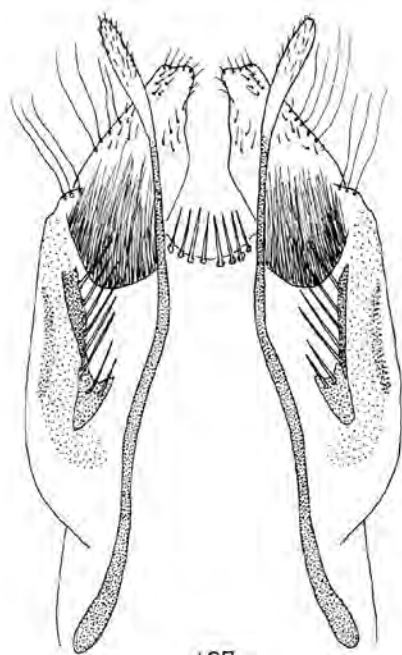


400

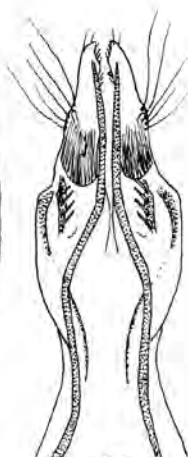
395-400. Ovipositor: 395 - *Sperophagus munnarensis*, 396 - *S. marmoreus*, 397 - *S. maurus*, 398 - *S. maynei*,
399 - *S. minutissimus*, 400 - *S. minutus*



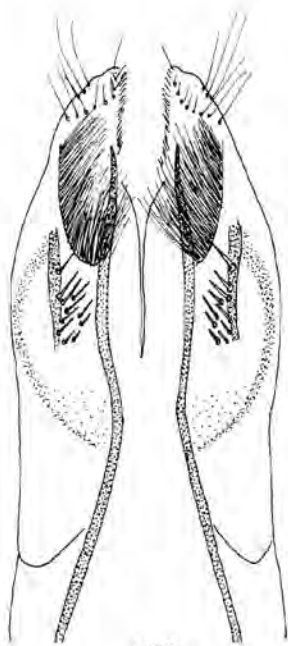
401-406. Ovipositor: 401 - *Spermophagus moerens*, 402 - *S. multiguttatus*, 403 - *S. multipunctatus*, 404 - *S. negligens*, 405 - *S. niger*, 406 - *S. pfaffenbergeri*



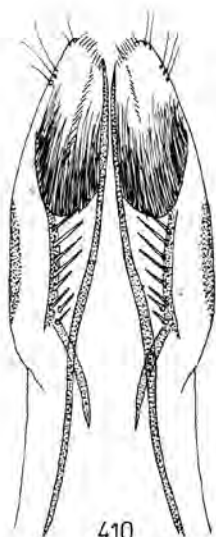
407



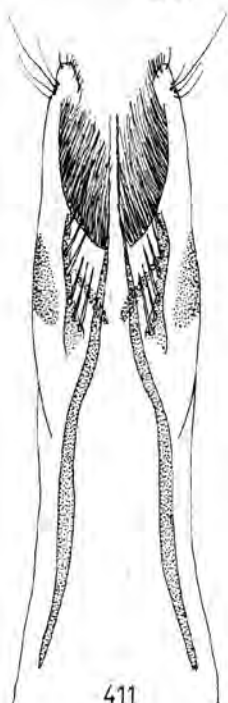
408



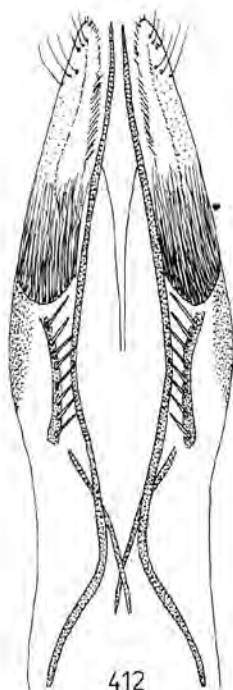
409



410

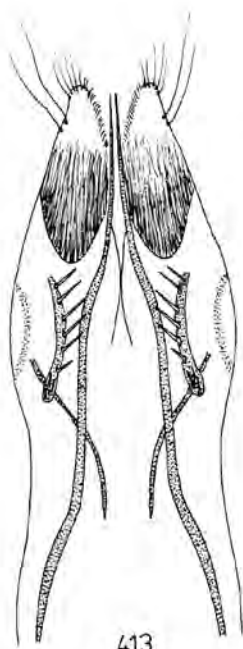


411

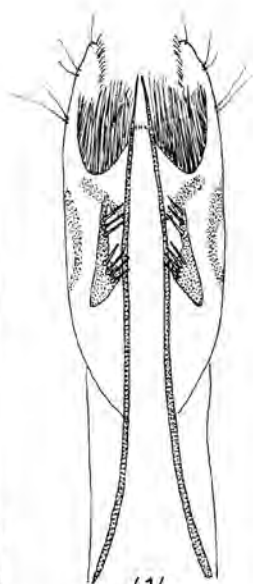


412

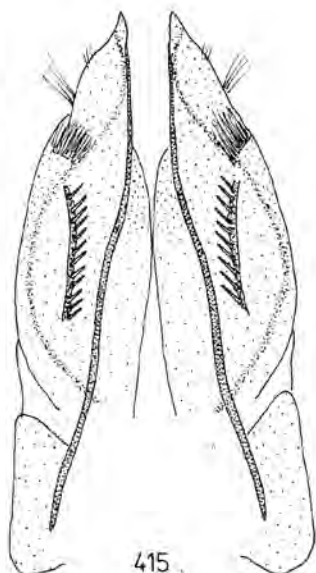
407-412. Ovipositor: 407 - *Spermophagus pilipes*, 408 - *S. schroederi*, 409 - *S. pubiventris*, 410 - *S. posticus*, 411 - *S. pygopubens*, 412 - *S. rufipes*



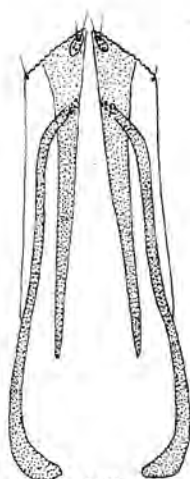
413



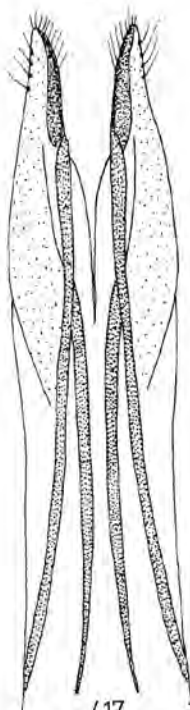
414



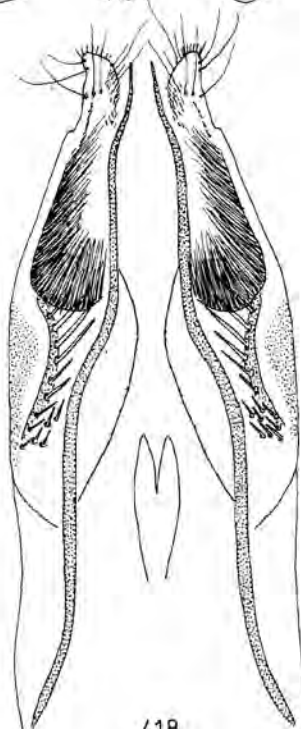
415



416

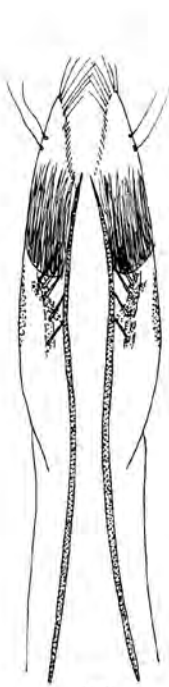


417

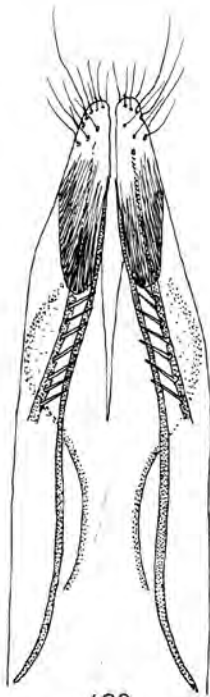


418

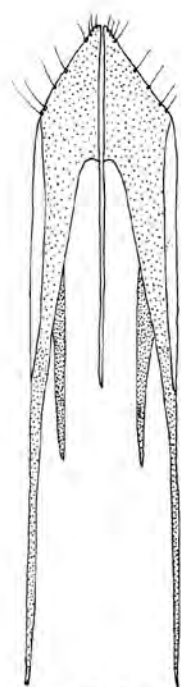
413-418. Ovipositor: 413 - *Sperophagus scoti*, 414 - *S. semiannulatus*, 415 - *S. sericeus*, 416 - *S. sinensis*, 417 - *S. sophorae*, 418 - *S. tristis*



419



420



421

419-421. Ovipositor: 419 - *Sperophagus variolosopunctatus*, 420 - *S. wittmeri*, 421 - *S. lugubris*

INDEX OF LATIN NAMES OF BEETLES

(new species in bold, synonyms in *italics*)

- abdominalis* (F.) - 8, 10, 11, 12, 15, 19, 21, 23, 83, 84, 117, 119, 129, 130, 136, 144, 156, 184, 185
abyssinicus PIC - **128**, 135
aeneipennis PIC - 8, 15, **23**, 24, 25, 53, 54, 64, 65, 96, 126, 131, 136, 144, 160
afghanicus BOROWIEC - 112, 113, 134
albipilis CHABAUT - 67, 68, 132
albofasciatus auct. - 26, 131
albomaculatus DECELLE - 9, 16, **25**, 26, 101, 131, 144, 155, 156, 182, 185
albonotatus CHÜJÓ - 20, 22, 130
albopunctatus MOTSCH. - 51, 132
albosparsus GYLL. - 8, 11, 13, **26**, 27, 28, 69, 70, 85, 93, 131, 136, 144, 167, 185
albosuturalis PIC - 9, 17, **28**, 67, 131, 144, 156, 177
altaicus KARAPET. - 8, 10, **29**, 30, 36, 65, 75, 115, 131, 144, 157, 185
Amblycerinae - 4, 7
Amblycerini - 7
Amblycerus - 4, 7
andamanensis PIC - 26, 27, 131
atriceps PIC - 20, 22, 130
atroapicalis PIC - 72, 73, 133
atromaculatus PIC - 20, 22, 130
babaulti PIC - 18, **30**, 31, 32, 129, 131, 136, 145, 168, 170, 185
bengalicus - 14, **32**, 33, 107, 131, 136, 145, 176
bifasciolatus MOTSCH. - 94, 95, 133
bimaculatus PIC - 9, 15, **33**, 34, 45, 76, 108, 131, 136, 145, 155, 171, 185
braunsi PIC - **128**, 135
brevicornis PIC - 7
brevipes PIC - **128**, 135
brincki DECELLE - 16, **34**, 131, 145, 175, 186
burgeoni PIC - 20, 22, 130
calistegiae KARAPET. - 35
calystegiae (LUK. et T.-M.) - 8, 10, 11, 30, **35**, 36, 69, 115, 131, 135, 145, 157, 186
canus BAUDI - 8, 11, **36**, 69, 131, 145, 158, 186
capensis MOTSCH. - 85, 86, 133
cardui BOH. - 112, 113, 115, 134
caricus DECELLE - 12, **37**, 50, 131, 146, 165, 186
caucasicus BAUDI - 10, **39**, 40, 65, 131, 135, 145, 162, 186
cederholmi DECELLE - 8, 13, **40**, 41, 99, 131, 136, 146, 182, 186
ceylonicus PIC - 13, **42**, 131, 136, 146, 155, 156, 180, 187
cicatricosus GYLL. - 19, **43**, 44, 105, 131, 136, 146, 165, 187
ciliatipes PIC - 9, 16, **44**, 76, 77, 131, 146, 156, 171
cisti: SCHILS. - 112
coimbatorensis - 8, 14, **45**, 46, 79, 131, 146, 183
complexus SHARP - 11, 15, 23, **46**, 47, 131, 135, 150, 159
confusus BOROWIEC - 8, 11, **47**, 69, 132, 135, 146, 158, 187
convolvuli (THUNB.) - 19, 21, 130
coronatus - 14, 48, **49**, 111, 132, 146, 181
corrocaensis DECELLE - 66, 67, 132
decellei BOROWIEC - 12, 38, 39, **49**, 132, 147, 165, 187
dilatatus MOTSCH. - 128, 135
divergens FAHR. - 18, **51**, 132, 147, 169, 170
diversipes PIC, 1922 - 20, 22, 130
diversipes PIC, 1941 - 20, 22, 130
dongdokiensis - 8, 15, **52**, 53, 104, 112, 132, 147, 161
drak - 8, 15, 24, 25, **53**, 132, 147, 160, 187

- eichleri* BOROWIEC - 9, 16, **54**, 55, 58, 121, 132, 147, 156, 172, 173, 188
elisabethae PIC - 20, 22, 119, 130
endrodii BOROWIEC - 10, 18, **55**, 56, 97, 123, 132, 147, 164
eous (L.O.K. et T.-M.) - 39, 40, 131
erythrinae DECELLE - 30, 31, 131
euphorbiae KUST. - 112, 113, 115, 134
Euspermophagus - 4, 6
excavatus PIC - 9, 14, **56**, 57, 73, 76, 98, 132, 147, 156, 179
fochi PIC - **128**, 135
formosanus PIC - 94, 95, 124, 125, 133
fulvopubens PIC - 118, 119, 134
glabratus BOH. - 19, 22, 130
gossypi CHEVR. - 70, 71, 132
guttulatus SCHOENH. - 20, 22, 130
heydeni ALLARD - **128**, 135
hottentotus FAHR. - 7, 9, 16, 26, 34, 44, 45, 55, **57**, 58, 76, 94, 121, 128, 132, 147, 155, 172, 173, 188
humilis DECELLE - 9, 18, 33, **58**, 59, 60, 74, 105, 132, 148, 163, 188
immaculatus PIC - 94, 95, 133
incertus - 9, 19, **60**, 132, 147, 162
inlineolatus PIC - 9, 16, **61**, 67, 132, 148, 177
inlobatus PIC - 30, 31, 131
japonicus SCHILS. - 20, 22, 130
javanus PIC - 92, 93, 133
johnsoni BOROWIEC - 9, 14, 33, **62**, 63, 108, 132, 148, 176
kannegieterei PIC - 12, **63**, 132, 148, 168, 170, 188
kingsolveri BOROWIEC - 8, 15, **64**, 65, 96, 132, 148, 160
kiotensis PIC - 20, 22, 130
klapperichi BOROWIEC - 8, 10, 40, **65**, 66, 75, 132, 148, 155, 159, 188
kochi DECELLE - 9, 16, 29, **61**, **66**, 67, 132, 148, 177, 189
kuesteri SCHILSKY - 8, 11, 36, **67**, 68, 69, 74, 102, 103, 132, 135, 154, 155, 158, 189
kurseongensis DECELLE - 116, 117, 134
kuskai Borowiec - 8, 13, 28, **69**, 132, 136, 148, 167
latescenta ARORA - 40, 41, 131
latipennis PIC - 70, 71, 132
latithorax BOH. - 9, 18, 32, 52, **70**, 71, 72, 82, 129, 132, 135, 136, 154, 169, 170, 189
ligatus CHEVR. - 9, 12, 43, 57, **72**, 73, 76, 98, 133, 149, 179, 189
lindbergorum DECELLE - 9, 11, 33, 60, **73**, 133, 149, 163
longicornis PIC - 20, 22, 130,
lugubris FAHR. - **128**, 135, 149, 194
maafensis BOROWIEC - 8, 10, 36, 40, 65, 66, **74**, 133, 149, 155, 159, 189
maai - 9, 14, 57, **75**, 133, 149, 179
maculatus SCHILS. - 124, 135
madecassus PIC - 9, 16, **76**, 77, 94, 133, 149, 156
malvacearum DECELLE - 10, 19, 77, 78, 91, 109, 133, 149, 166, 189
mannarensis DECELLE - 8, 12, 14, 46, **78**, 79, 133, 136, 149, 156, 183, 190
marmoreus - 9, 17, 79, 90, 133, 135, 149, 174, 190
marshalli PIC - 51, 52, 132
maurus FAHR. - 18, **80**, 81, 118, 133, 150, 169, 170, 190
maynei PIC - 9, 18, 52, 72, **82**, 91, 133, 150, 169, 170, 190
mesopotameca HUSS. et KADH. - 112, 113, 134
minutissimus - 18, **83**, 84, 133, 150, 162, 190
minutus - 8, 13, 28, **84**, 133, 150, 167, 190
moerens BOH. - 17, **85**, 86, 133, 150, 173, 191
monardi DECELLE - 9, 17, **86**, 90, 133, 150, 175
multifloccosus - 9, 17, **87**, 90, 133, 150, 175
multiguttatus PIC - 9, 19, **88**, 90, 133, 150, 174, 191

- multilineolatus* PIC - 46, 47, 131
multipunctatus PIC - 9, 17, 80, 87, 88, **89**, 90, 133, 151, 174, 191
multisignatus PIC - **129**, 132, 135
murtulai PIC - 10, 19, 78, **91**, 133, 151, 166
natalensis FAHR. - 70, 71, 132
negligens PIC - 8, 13, 28, **92**, 93, 131, 133, 151, 167, 191
newtoni BOROWIEC - 9, 16, 76, 77, **93**, 133, 151, 156, 172, 173
niger MOTSCH. - 8, 15, 24, 25, 53, 54, 64, 65, **94**, 95, 96, 104, 112, 126, 133, 136, 151, 160, 191
nigrodenudatus PIC - 101, 134
notatipennis PIC - 20, 22, 130
notatithorax PIC - 20, 22, 130
okahandjensis DECELLE - 10, 17, 56, 86, **96**, 97, 123, 133, 151, 164
palmi - 9, 14, 57, **97**, 133, 151, 178
plaffenbergeri BOROWIEC - 8, 13, 41, **98**, 134, 136, 151, 182, 191
philipes - 9, 16, 26, **100**, 134, 136, 152, 155, 182, 192
posticus CHEVR. - 9, 17, 18, 86, **101**, 102, 106, 134, 152, 180, 192
pubiventris BAUDI - 8, 11, 69, **102**, 134, 152, 159, 192
punjabensis - 8, 15, 53, **103**, 134, 152, 161
pygopubens PIC - 19, **104**, 105, 134, 136, 152, 165, 192
Pygospermophagus - 4, 7
ruandanus - 9, 18, 86, 102, **105**, 134, 152, 173
rufipennis PIC - 20, 22, 23, 130
rufipes (T.-M.) - 10, 33, **106**, 134, 152, 163, 192
rufiventris BOH. - 4, 19, 22, 130
rufonotatus PIC - 15, 34, **107**, 108, 134, 136, 152, 180
rufopygidialis PIC - 20, 22, 130
samuelsoni - 9, 14, 62, 63, **108**, 134, 153, 176
schroederi DECELLE - 10, 19, 78, **109**, 134, 152, 166, 192
scottii DECELLE - 17, 49, **110**, 111, 134, 153, 156, 181, 193
semiannulatus PIC - 8, 15, 53, **111**, 112, 134, 153, 161, 193
senegalensis PIC - 101, 134
sericeus (GEOFFR.) - 8, 10, 30, 36, 37, 47, 48, 65, 66, 68, 69, 75, 103, **112**, 113, 114, 115, 134, 135, 136, 143, 155, 157, 193
siamensis - 9, 13, **115**, 116, 127, 134, 153, 178
simoni PIC - **94**, 95, 111, 112, 133, 134
sinensis PIC - 8, 12, **116**, 117, 122, 134, 136, 153, 184, 193
somaticus DECELLE - 18, 81, **117**, 134, 153, 181
sophorae FAHR. - 4, 12, 19, 32, 105, **118**, 119, 134, 136, 153, 183, 193
sparsemaculatus PIC - 20, 22, 130
Spermatophagus - 6
Spermophagini - 6, 7
stemmleri PIC - 13, **119**, 134, 153, 176
subdenudatus MOTSCH. - **130**, 135
sublineatus BOH. - 22, 23, 130
subsignatus GYL. - 26, 27, 131
subundulatus PIC - 19, 94, 124, 125
sulcifrons KUST. - 112, 113, 115, 134
swartukensis HUSS. et KADH. - 67, 68, 132
tandalensis BOROWIEC - 9, 16, 55, **120**, 134, 153, 156, 171
tesselatus MOTSCH. - 26, 27, 62, 116, 131
testaceiventris PIC - 20, 22, 130
tigridis HUSS. et KADH. - **130**, 135
titivilitius BOH. - 4, 6, 8, 12, 23, 47, 117, **121**, 135, 154, 184
tomentosus KLUG - 70, 71, 132
tonkineus PIC - **94**, 95, 133
transvaalensis BOROWIEC - 10, 18, 56, 97, **122**, 135, 154, 164

tristis FAHR. - 17, **123**, 135, 154, 168, 170, 193

trogodermioides FAIRM. - 70, 71, 132

turanicus (LUK. et T.-M.) - **130**, 135

undulatus CHÛJÔ - 20, 22, 130

uniformis PIC - 46, 118, 119, 134

vadoni PIC - 20, 22, 130

variolosopunctatus auct. - 47, 67, 132

variolosopunctatus GYLL. - 8, 15, 24, 48, 102, **124**, 125, 134, 135, 154, 161, 194

vietnamensis - 9, 13, 116, **126**, 135, 154, 178

wittmeri BOROWIEC - 10, **127**, 135, 154, 156, 194

Zabrotes - 4, 7