# Pandinus (Pandinops) pococki sp. n. from Somalia, and Pandinus pugilator, a junior synonym of Pandinus (Pandinops) bellicosus comb. n. (Scorpiones, Scorpionidae)

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Abstract. Pandinus (Pandinops) pococki sp. n. is described and a key to the species of the subgenus Pandinops Birula, 1913 is provided. Based on the presence of seven internal granules on the chela, Pandinus bellicosus (L. Koch, 1875) is transferred from subgenus Pandinurus to the subgenus Pandinops. Pandinus (Pandinops) pugilator is hereby synonymized with Pandinus (Pandinops) bellicosus.

**Key Words:** Taxonomy, description, new species, new synonymy, key to species, Scorpiones, Scorpionidae, Pandinus, Pandinops, Pandinurus, Somalia, Eritrea

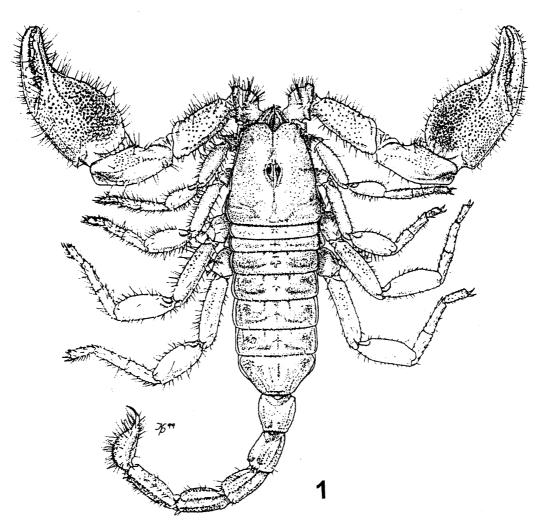
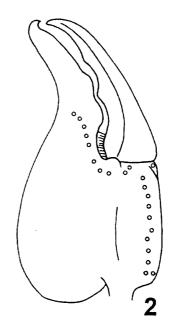


Fig. 1. Pandinus (Pandinops) pococki sp. n., holotype, dorsal aspect.

Fig. 2. *Pandinus (Pandinops) pococki* sp. n., holotype, chela of pedipalp, ventral and internal views.



# Pandinus (Pandinops) pococki sp. n.

(Figs. 1 and 2, Table 1)

Type Locality. Somalia: Geriban env., 09°20'N 48°09'E.

TYPE MATERIAL. Somalia: Geriban env., 09°20'N 48°09'E, VI.1980, 1 male (holotype), author's collection. No other material.

ETYMOLOGY. Named after Reginald Innes Pocock, who described the majority of other species of the subgenus *Pandinops*.

DESCRIPTION. Total length of the male holotype is 93 mm. Measurements of the carapace, telson, segments of the metasoma and segments of the pedipalps, and numbers of pectinal teeth are given in Table 1. Habitus is shown in Fig. 1. For the position and distribution of trichobothria on the chela of pedipalp see Fig. 2. There are eight internal granules on the chela, which characterize the subgenus *Pandinops* (see Birula, 1913: 419; Birula, 1928: 88; Vachon, 1974: 953).

The base colour is uniformly brown. The telson is yellowish brown.

The pectens are very long, and stigmata are long and very narrow (fissure-like).

The carapace lacks keels but bears large granules.

The manus of pedipalp has a lobe (Fig. 1) and is dorsally covered by tubercles which locally form keels but do not attain the shape of pointed granules; such granules are sparsely distributed only on the ventral surface of the manus. The patella of pedipalp bears three keels and the femur bears four keels, all composed of unequally sized granules. The dorsal and internal surfaces of the femur are covered by large granules.

The mesosoma bears granules and a median keel. The seventh mesosomal segment ventrally bears numerous granules, as do all other metasomal segments. The first through fourth metasomal segments have six keels and the fifth segment has seven keels, of which one is ventral.

AFFINITIES. The described features distinguish *Pandinus* (*Pandinops*) *pococki* sp. n. from all other species of the subgenus. They are recounted in the key below.

# Key to Pandinus (Pandinops) species

| l. | . First | and    | second   | metasomal    | segments                                | ventrally | smooth, witho           | out granules |
|----|---------|--------|----------|--------------|-----------------------------------------|-----------|-------------------------|--------------|
| (s | mooth   | , effa | aced kee | ls may be pr | esent)                                  | ••••••    |                         | •••••        |
|    |         |        |          | • •          |                                         |           | loch, 1875) <b>co</b> n |              |
|    |         |        |          |              |                                         | `         | ar closely space        |              |
|    | •••••   |        |          |              | • • • • • • • • • • • • • • • • • • • • |           |                         | 2            |

## Pandinus (Pandinops) bellicosus (L. Koch, 1875), comb. n.

Heterometrus bellicosus L. Koch, 1875: 1; Moritz & Fischer, 1980: 310.

Scorpio bellicosus: Pocock, 1888: 255; Kraepelin, 1898: 5.

Scorpio africanus bellicosus: Kraepelin, 1894: 69.

Pandinus bellicosus: Karsch, 1887: 68; Kraepelin, 1899: 121.

Pandinus (Heterometrus) bellicosus: Karsch, 1879: 128.

Pandinus (Pandinus) bellicosus: Birula, 1928: 88.

Pandinus (Pandinurus) bellicosus: Vachon, 1974: 953; Lamoral & Reynders,

1975: 565; El-Hennawy, 1992: 137; Kovařík, 1998: 140.

Pandinus pugilator Pocock, 1900: 52; Pocock, 1900: 61. Syn. n.

Pandinus (Pandinus) pugilator: Birula, 1928: 88.

Pandinus (Pandinops) pugilator: Vachon, 1974: 953; Lamoral & Reynders,

1975: 565; El-Hennawy, 1992: 136; Kovařík, 1998: 140.

### TYPE LOCALITY. Cairo.

TYPE MATERIAL. ?: Habab, 1 male (holotype), leg. Jickeli, Museum für Naturkunde der Humboldt-Universität zu Berlin, Germany No. 2521. **Somalia**: Berbera, 16.IV.1897 or Hargaisa, 1 specimen (holotype of *Pandinus pugilator*), leg. Peel, British Museum (Natural History), London, England.

COMMENTS. *Pandinus bellicosus* is based on a male for which L. Koch (1875: 4) gives Cairo as the type locality. However, this provenance is most likely erroneous, as the species has never afterwards been found in Egypt. No original

label is attached to the holotype, instead it bears a label stating: holotype Pandinus bellicosus (L. Koch, 1875), Habab, Jickeli leg., Nr. 2521.

Table 1. Measurements in millimeters of holotypes of species of the subgenus *Pandinops*. Numbers of teeth in the pecten of *P. peeli* and *P. pugilator* are after Pocock (1900: 53). The holotypes are damaged and pectens are partially or wholly lacking. Due to damage, sex cannot be ascertained for *P. pugilator*.

|                |        | P a n d i n u s              |                        |                          |                      |           |                    |  |  |  |
|----------------|--------|------------------------------|------------------------|--------------------------|----------------------|-----------|--------------------|--|--|--|
|                |        | <i>pococki</i> sp.n.<br>male | <i>colei</i><br>female | <i>hawkeri</i><br>female | <i>peeli</i><br>male | pugilator | bellicosus<br>male |  |  |  |
| Total          | length | 93.0                         | 79.3                   | 86.3                     | 88.0                 | 104.0     | 89.2               |  |  |  |
| Carapace       | length | 16.9                         | 12.3                   | 15.0                     | 14.1                 | 17.2      | 15.9               |  |  |  |
| •              | width  | 15.2                         | 11.0                   | 14.4                     | 13.5                 | 16.6      | 15.2               |  |  |  |
| Metasoma       | length | 46.2                         | 32.8                   | 38.3                     | 38.4                 | 48.0      | 44.6               |  |  |  |
| segment I      | length | 5.8                          | 4.0                    | 4.5                      | 4.7                  | 5.8       | 5.2                |  |  |  |
| _              | width  | 5.2                          | 4.3                    | 5.1                      | 5.4                  | 5.5       | 5.4                |  |  |  |
| segment II     | length | 6.2                          | 4.3                    | 5.0                      | 5.1                  | 6.5       | 5.9                |  |  |  |
| J              | width  | 4.9                          | 3.9                    | 4.5                      | 4.8                  | 4.9       | 4.8                |  |  |  |
| segment III    | length | 6.7                          | 4.8                    | 5.4                      | 5.5                  | 6.9       | 6.2                |  |  |  |
| C              | width  | 4.5                          | 3.7                    | 4.4                      | 4.5                  | 4.4       | 4.3                |  |  |  |
| segment IV     | length | 7.4                          | 5.4                    | 6.3                      | 6.6                  | 8.1       | 7.2                |  |  |  |
| Ü              | width  | 4.1                          | 3.3                    | 3.9                      | 4.2                  | 3.8       | 4.0                |  |  |  |
| segment V      | length | 8.7                          | 6.5                    | 7.5                      | 7.5                  | 10.1      | 9.4                |  |  |  |
| Ü              | width  | 3.8                          | 2.9                    | 3.6                      | 3.9                  | 3.6       | 3.9                |  |  |  |
| telson         | length | 10.0                         | 7.0                    | 8.6                      | 8.6                  | 9.5       | 9.7                |  |  |  |
| Pedipalp       |        |                              |                        |                          |                      |           |                    |  |  |  |
| femur          | length | 12.2                         | 7.2                    | 9.8                      | 9.6                  | 11.9      | 11.6               |  |  |  |
|                | width  | 5.0                          | 3.7                    | 4.6                      | 5.0                  | 5.2       | 5.4                |  |  |  |
| patella        | length | 13.0                         | 8.4                    | 10.8                     | 11.8                 | 12.8      | 13.0               |  |  |  |
| •              | width  | 5.5                          | 4.0                    | 5.1                      | 5.7                  | 6.5       | 5.8                |  |  |  |
| tibia          | length | 25.0                         | 15.5                   | 21.4                     | 22.3                 | 27.0      | 24.7               |  |  |  |
|                | width  | 13.0                         | 9.2                    | 11.7                     | 13.5                 | 15.3      | 14.3               |  |  |  |
| finger mov.    | length | 15.5                         | 9.0                    | 12.5                     | 13.2                 | 16.0      | 15.5               |  |  |  |
| Pectinal teeth |        | 17:16                        | 11:11                  | 12:13                    | 15                   | 17        | 20:19              |  |  |  |

Pandinus pugilator was based by Pocock on a damaged specimen (originally stuffed and kept dry, but currently is in alcohol), whose pectens are wholly lacking. Due to damage, sex cannot be ascertained. This holotype was examined by Prof. Vachon (VA No. 1136) and correctly placed by him in the subgenus Pandinops (Vachon, 1974: 953), which is characterized by the presence of 6 – 8 internal granules on the chela. However, Pandinus bellicosus was incorrectly placed by Vachon (1974: 953) in the subgenus Pandinurus (which is inter alia characterized by the presence of only two internal granules on the chela), without mentioning whether he had seen the holotype of this species.

Examination of the holotype of *Pandinus bellicosus* reveals that it has seven internal granules on the chela and therefore belongs to the subgenus *Pandinops*, and after seeing the holotype of *Pandinus pugilator* I am convinced that it is the same species.

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