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REVISION OF THE TRILOBITE TYPE MATERIAL OF I. HAWLE AND A. J. C. CORDA, 1847

INTRODUCTION

The aim of this revision is to gather all available data on trilobites described as new Bohemian species by HAWLE and CORDA (1847). Particular attention is paid to the determination of type specimens, their stratigraphic range and geographical distribution, zoological position in accordance with modern classification criteria. Two hundred and seventy-four species are revised, of which thirty are considered nomina dubia because no syntype has been found preserved. Type specimens hitherto unphotographed are figured on 16 plates.

This paper follows the pioneer-work by HORNÝ and BASTL (1970) who made the most extensive revision of Hawle and Corda syntypes and described identification criteria in great detail.

I express my thanks to Dr. R. Prokop and A. Skalický of the National Museum, Prague for making available to me the type material and for their help in laboratory work in repositories.

GENERAL PART

The monograph by HAWLE and CORDA (Prodróm einer Monographie...) contains concise description of a large number of new species and genera: two hundred and seventy-four new species were described from the Lower Paleozoic of Bohemia. BARRANDE'S (1852) criticism of the Prodróm was severe yet it was essentially rightful in pointing to the numerous formal and subject errors found in their monograph. Only few species were regarded by Barrande as zoologically valid, while most species erected by Hawle and Corda were considered invalid synonyms. So unique was Barrande's scientific position and world-wide reputation that trilobite studies made in the

Barrandian area were based on his conclusions published in 1852 and 1872 until the fifties of this century. Except few cases, the Prodróm was actually forgotten.

Recent studies of the Bohemian trilobite fauna, particularly in the period following World War II, have indicated that Barrande's negative approach toward the Prodróm will have to be revised especially in regard of modern nomenclatorial and taxonomic usage, as well as new biostratigraphic data. Since the first edition of Barrande's monumental „Système silurien...“ one hundred years ago it has become logically inevitable to deal with several taxonomic and nomenclatorial problems emerging to date. It can be demonstrated that, despite a highly superficial identification of species by Hawle and Corda, several species are zoologically justifiable while Barrande's classification conception not uncommonly cannot be sustained. If viewed from the point of strict nomenclatorial principles some Hawle and Corda's species have priority to those erected at a later date (BARRANDE, JAHN etc.).

A new approach to the Prodróm was indicated after World War II by PŘIBYL (1953). The application of strict nomenclatorial principles and the replacement of commonly used names by „forgotten“ designations after Hawle and Corda were not based on detailed studies of their original type material, but a „red tape“ procedure was mostly used by means of Barrande's data (1852). A logical approach to the subject matter to make a careful analysis of Hawle and Corda's documentary material — was adopted only in the following years.

Hawle's private collection served as a source for both writers to prepare their Prodróm. After the Prodróm had appeared, the described specimens soon became scattered and were not stored in a compact collection until virtually the 70's of this century. In 1847, most probably after the Prodróm was published, a part of Hawle's collection was obtained by A. J. C. Corda for the Bohemians Museum (= National Museum Prague), comprising after the museum's written records 349 specimens ranged to 162 species (HORNÝ and BASTL 1970).

This material largely consisted of duplicates not including specimens of fairly rare species. At a later date, Barrande was successful in obtaining the remainder part of Hawle's collection and incorporated it in his own collection. Barrande when working on the first volume of his „Système...“, had at his disposal both parts of the collection, referred to by him as coll. Hawle, coll. Musci. For sake of completeness, it should be mentioned that Hawle collected fossils even after 1847. These, too, are stored in the National Museum Prague, but bear different labels and are not dealt with in this revision because they do not represent specimens used in the Prodróm. For more detailed information the reader is referred to HORNÝ and BASTL (1970).

Hawle and Corda syntypes, figured by BARRANDE (1852) or used by Barrande as auxiliary types for reconstructions became part of Barrande's collection of original specimens (now housed in the National Museum). The other syntypes from Hawle's collection, including the material gathered by Hawle after 1847, were scattered as duplicates in the collection of National Museum, classified according to zoological aspects; there is no doubt that some syntypes were lost at that time. Some specimens were reformatized by museum staff during preparation of exhibits; they were reduced in size, their original labels and symbols in ink either washed away or destroyed. It is very likely that similar operations were also performed by Barrande. Hawle was used to include in his collection specimens with a fairly large piece of rock, while Barrande and, at a later date, museum staff reduced rock samples in size as much as possible. As a result, some syntypes may have been destroyed or transferred on exchange to abroad.

It was not until the 50's of this century that Hawle and Corda syntypes began to be gathered systematically in the National Museum. In his Museum Keeper's Report PRANTL (1957) stated that 184 chirotypes were successfully identified; at a later date (1959), he claimed that the identification of Hawle and Corda syntypes was accomplished. The latter statement is incorrect, since only a part of syntypes was gathered (see HORNÝ and BASTL 1970). This work was completed by HORNÝ and BASTL (1970), who succeeded, among others, in gathering all syntypes from additional materials stored in exhibition halls. At the same time, they performed their catalogization and inventarization and determined type specimens of those species for which types have not yet been erected. Thus, Horný and Bastl created basic conditions for a comprehensive revision of the Prodróm with regard to modern taxonomic and nomenclatorial usage.

In 1979—1980 additional Hawle and Corda syntypes were discovered in repositories (coll. Musei, coll. Barrande), so that it became possible to narrow the field of questionable species not accompanied by type specimens. A few syntypes were also found in a trilobite collection obtained by the Geological Survey, Prague (Ústřední ústav geologický) by purchase from J. Vaněk. These syntypes were then transferred to the collection of the National Museum.

At present, of the 274 species originally described by Hawle and Corda as new species 244 are based on type material evidence, with one or more syntypes. Thirty species are retained as nomina dubia. This situation will probably remain invariable, since all available museum repositories dating from 19th century have been revised.

At an early stage, unquestionable syntypes of Hawle and Corda were difficult to identify. For more detail see ŠNAJDR (1958, 1960) and especially HORNÝ and BASTL (1970). The syntypes were not denoted in a uniform manner. Identification symbols were retained on the specimens by Hawle and by Barrande, but they have till 50's not been deciphered in a satisfactory way; specimens from other collections (see HORNÝ and BASTL 1970) were occasionally regarded as syntypes (chirotypes) of Hawle and Corda. Specimens thought by the present author to be unquestionable syntypes are as follows:

1. Specimens with attached paper labels of different size. The label bears either the name quoted in Prodróm or two names as in the case of Barrande's species synonymy. Examples were given and figured by ŠNAJDR (1958) and HORNÝ and BASTL (1970).

2. Specimens with miniature attached labels with corners cut off, bearing Hawle and Corda's name, e. g. *Harpes venulosus* Corda.

3. Specimens explicitly quoted by BARRANDE (1852) in text or in explanations of plates, with their origin clearly specified (coll. Hawle). Unfortunately, Barrande did not strictly follow his identification principles. Thus, for instance, the species *Conoparia convexa* Hawle et Corda, shown on pl. 18, figs. 52, 53, was not referred by Barrande to Hawle's collection, although the specimen is originally labelled by Hawle and the rock bears Barrande's inky symbol H 7.

4. Specimens denoted by Barrande. On the rock he wrote a capital H to which he usually added an order number indicating the species as published in the Prodróm. For example, H 3 corresponds to the species *Odontopleura tenuispina* Hawle et Corda. In some cases letter H is supplemented by species or generic name (as in *Iliaenus asaphoides*), while elsewhere species or generic names are abbreviated. In following years attempts were made to reduce rock samples in size. As a result, the labels were occasionally lost or the matrix of specimen bearing Barrande's symbols in red or black ink was partially torn away. Obviously such specimens cannot be regarded as syntypes based on reliable evidence. Not uncommonly are there combinations of the identification symbols mentioned above, as can be illustrated by attached label accompanied by letter H and number in ink. In the case of *Eccoptychile aspera* Hawle et Corda (i. e. holotype by monotypy), the rock bears letter H and the species name *aspera* in the absence of label.

This approach is essentially in accordance with the principles given by HORNÝ and BASTL (1970). Syntype identification can also be aided by Barrande's notes (1852) on the number and nature of syntypes examined by him. It is unfortunate that after 1970 a Prodróm's copy disappeared from Barrande's private library stored in National Museum — the work containing his own remarks [see HORNÝ and BASTL 1970, text — figs. 11, 12]. The present author, while revising material available, had thus no opportunity to benefit from such extremely valuable authentic observations.

The choice of the mentioned criteria used in identifying reliable syntypes necessitated some changes to be made in type specimens determinations for some species. This refers to type specimens regarded as questionable Hawle and Corda syntypes or specimens characterized as types (holotypes, lectotypes) at variance with formal principles underlying their identification:

1. HORNÝ and BASTL (1970), with only one syntype available, erected holotypes by monotypy. This approach was not accepted by the present author in the following cases: a) — As can be seen from Prodróm or Barrande's remarks, the species described is based on two or more specimens (e. g. *Proetus Angelinii* Hawle et Corda, *Proetus Forchhammeri* Hawle et Corda, *Chirusus globifrons* Hawle et Corda). Despite the existence of only one syntype, it should be regarded as lectotype; b) — Additional syntypes (e. g. *Odontochile aspera* Hawle et Corda) were discovered in the period following 1970.

Consequently, lectotypes mostly determined by the present author are those identical with holotypes in the sense of Horný and Bastl.

2. Lectotypes determined by various authors for some species are those not included in Hawle's collection, thus not representing Hawle and Corda syntypes. For instance, the lectotype chosen by Marek (in HORNÝ and BASTL 1970) for *Calymene interjecta* Hawle et Corda is the specimen figured by BARRANDE [1852, pl. 19, fig. 21]. This is not a Hawle and Corda syntype, nor does it come from a type locality or horizon. By analogy, the *Microparia speciosa* Hawle et Corda lectotype chosen earlier is not from Hawle's collection and does not represent Hawle and Corda syntype. Most of these incorrectly chosen lectotypes were likewise replaced by a lectotype taken from Hawle and Corda original syntypes or by a certain neotype.

A strict application of nomenclatorial usage [i. e. law of priority] would necessarily lead to the fact that several species names, erected by BARRANDE [1852] or JAHN [1895] would be replaced by earlier designation of HAWLE and CORDA [1847]. For instance, *Iliaenus attenuatus* Hawle et Corda 1847, would be used instead of *Iliaenus Panderi* Barrande, 1852; *Proetus dubius* Hawle et Corda instead of *Proetus neglectus* Barrande; *Phacops exasperatus* Hawle et Corda instead of *Phacops degener* Barrande; *Phacops horridus* Hawle et Corda instead of *Phacops degener* Barrande and so on.

Such an approach is considered unjustifiable, since Barrande's designations particularly are deep rooted and have been already used for more than 100 years in an extensive paleontological and geological literature. Therefore, in accordance with some authors [ŠNAJDR 1958, CHLUPÁČ 1977], I keep with regard to article 23 b of the IRZN younger Barrande's designations. The same approach is taken in the case of *Skreiaspis spinosa* [JAHN, 1895] and *Solenopleurina tyroicensis* Růžička, 1938, species which were erected at the times when the Prodróm was completely forgotten but are still frequently quoted in literature. On the contrary, later synonymic names of species, established after 1945 in the post-war period witnessing revision and nomenclatorial confrontation of Hawle and Corda and Barrande's papers, are thoroughly replaced by earlier Hawle and Corda's designations. For example, *Kloucekia pachypa* Přibyl et Vaněk, 1980 is a synonym of *Kloucekia ruderalis* [HAWLE et CORDA, 1847]; *Kloucekia tutana* Přibyl et Vaněk, 1980 is a synonym of *Kloucekia eichwaldi* [HAWLE et CORDA, 1847].

In some cases data included in the Prodróm on the geographical provenance of the described trilobites are incomplete or incorrect. There is no doubt that Hawle obtained fossils from other persons, so that the discoveries may have been located incorrectly. Thus, for instance, *Bronteus sparsus* Hawle et Corda is reported to have come from Koledník, although it actually was collected from typical limestones of the Lochkov Formation in the Kosoř area. *Odontopleura tricornis* Hawle et Corda is reported to have come from Chodaun (= typical limestone from the Lištica area); *Iliaenus glaberrimus* Hawle et Corda from Koledník (= Vinařice Limestone, not known in the Koledník area).

In most cases I succeeded in determinations fairly accurately the exact or probable locality according to rock nature. Original data given by Hawle and Corda on the rock petrographical nature are often inconsistent or inaccurate. Let us quote one example: the shales from Týřovice (Pod hruškou) have been designated as „Schiefer“ or elsewhere as „Grauwacke“, although their petrographical nature always remains invariable.

This revision aims to accumulating all data on Hawle and Corda's type material after being confronted with those provided by earlier revising authors (particularly BARRANDE 1852, HORNÝ and BASTL 1970), as well as with present knowledge about their systematics, stratigraphy and geography. All the types hitherto unfigured or known in a more or less idealized manner as drawings are figured. Trilobite species described by HAWLE and CORDA [1847] are in this contribution arranged alphabetically according to species names. Data on the type material comprising all valid and invalid names are given in separate paragraphs following the uniform pattern shown below:

1. Original species and generic designation in the Prodróm;
2. Reference to figures in this paper. It is given only if the fossil is figured for the first time, but omitted if the type had already been figured in the post-war period (i. e. after 1945) elsewhere;
3. Citation of original description in the Prodróm (page, plate), occurrence and synonymy after Hawle and Corda;
4. Zoological assignment of the species after Barrande [1852];
5. Data on type specimen (holotype, lectotype, neotype); concise description and

mode of its preservation; stratigraphic and geographic origin based on modern criteria; inventory number of National Museum Collection; identification symbols of Hawle or Barrande supporting the syntype's reliability (original label or letters, figures and names written in ink on rocks); citation of possible refiguring starting from BARRANDE (1852). If no syntype has been preserved, the species designation is considered *nomen dubium*;

6 Taxonomic, nomenclatorial and other notes;

7. Data on stratigraphy of the species based on modern knowledge; these data are given only for species considered valid;

8. Contemporaneous generic and species designation.

TECHNICAL ABBREVIATIONS

The following abbreviations are employed in the list of species:

NM National Museum (Museum of Natural History), Prague

SD subsequent designation

ÚÚG Ústřední ústav geologický, Praha (Geological Survey, Prague)

LIST OF SPECIES

abbreviatus, *Goniacanthus*

HAWLE and CORDA (1847), p. 18, pl. 2, fig. 5), Schiefer von Skrey.

BARRANDE (1852) included the syntypes of Hawle and Corda in the synonymy of *Sao hirsuta* Barrande, 1846 (degrees 7–10).

Lectotype: (SD ŠNAJDR 1958), complete meraspid specimen preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus; Zone, Týřovice (Pod hruškou). NM L 12515, original label. Figured by BARRANDE 1852, pl. 7, figs. 9c, d; refigured by ŠNAJDR 1958, pl. 43, fig. 30.

Specific designation: *Sao hirsuta* Barrande, 1846.

aciculatus, *Bronteus* (*Dicranactis*)

HAWLE and CORDA (1847, p. 62), Kalk von Damily, selten.

BARRANDE (1852) declared this species as synonymous with the species *Bronteus porosus* Barrande, 1846.

Remarks: No syntype has been found up today. *Nomen dubium*.

acuminatus, *Staurogmus*

HAWLE and CORDA (1847, p. 28), Thonschiefer von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Sao hirsuta* Barrande, 1846.

Remarks: The part of Hawle's collection obtained by Corda for Bohemian Museum (4th July 1847) included two specimens of *S. acuminatus* Hawle et Corda. BARRANDE (1852) mentioned some fragments designated by him as degree 20 of *Sao hirsuta* Barrande. No syntype was reported by ŠNAJDR (1958) and HORNÝ and BASTL (1970). *Nomen dubium*.

Aeneas, *Prionopeltis*

HAWLE and CORDA (1847, p. 124), Kalk von Kolednik.

BARRANDE (1852) placed this species in the synonymy of *Proetus Archiaci* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete pygidium with corroded exoskeleton preserved in limestone. Kopanina Formation, *Prionopeltis archiaci* Horizon, Koledník (exact locality unknown). NM L 18324; original label, symbol in ink "H 8". Figured by ŠNAJDR 1980, pl. 24, fig. 12.

Remarks: BARRANDE (1852) mentioned two pygidia with six pairs of pleural spines as coming from Hawle's collection.

Specific designation: *Prionopeltis archiaci* (BARRANDE, 1846).

affinis, Calymene

Pl. 1, fig. 2,3

HAWLE and CORDA (1847, p. 86), Kalk von Koněprus.

BARRANDE (1852) figured two syntypes of Hawle and Corda on pl. 43 under specific designation *Calymene Blumenbachi* Brongniart.

Lectotype: (herein), incomplete cranidium (internal mould with relics of exoskeleton) preserved in bioclastic limestone. Koněprusy or Vinařice Limestones, Koněprusy or Vinařice (exact locality unknown). NM L 16353; no original label. Lectotype is mentioned by Barrande; the rock bears the symbol "H"-Barrande's red ink. Figured by BARRANDE (1852), pl. 43, figs. 46, 47. Refigured by ŠNAJDR (MS 2, pl. 4, fig. 5).

Remarks: Hawle and Corda compared species *C. affinis* with *Calymene Blumenbachi*. BARRANDE (1852, p. 567) mentioned several fragments (=syntypes of Hawle and Corda) designated by him as *Calymene Blumenbachi*. ŠNAJDR (MS 2) ranged this species within the genus *Gravicalymene* Shirley. *Calymene (C.) interjecta vaneki* Pillet is a younger synonym.

Occurrence: Pragian; Koněprusy, Vinařice and Slivenec Limestones.
Specific designation: *Gravicalymene affinis* (HAWLE et CORDA, 1847).

affinis, Diplorrhina

HAWLE and CORDA (1847, p. 49), Skrey, sehr selten. Syn. *Battus affinis* Barrande, 1846? BARRANDE (1852) placed this species in the synonymy of *Agnostus integer* Beyrich, 1845.

Lectotype: (SD ŠNAJDR 1958), meraspid specimen (degree 1—1) preserved as internal mould in shale; cephalon and transitory pygidium displaced. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 19509; original label. Figured by ŠNAJDR 1958, pl. 3, fig. 29.

Remarks: BARRANDE (1852) mentioned five specimens, designated by him as "degree 4" of *Agnostus integer* Beyrich.

Specific designation: *Peronopsis cuneifera* (BARRANDE, 1846).

affinis, Chirurus

HAWLE and CORDA (1847, p. 136), Kalk von Suchomasty, selten.

BARRANDE (1852) placed this species in the synonymy of *Cheirurus Sternbergi* Boeck.

Lectotype: (herein), cranidium preserved in limestone as internal mould with relics of exoskeleton (=holotype by monotypy in HORNÝ and BASTL 1970). Acanthopyge Limestone, Koněprusy area (exact locality unknown). NM L 19774; no original label; the rock bears inky sym-

bols "H", "affinis". Figured by PŘIBYL and VANĚK 1973, pl. 16, fig. 3.

Remarks: PRANTL (1957) reported three chirotypes not found by HORNÝ and BASTL (1970) and by the present author.

Specific designation: *Cheirurus (Pilletopeltis) affinis affinis* Hawle et Corda, 1847.

Angelinii, Proetus

HAWLE and CORDA (1847, p. 77), Kalk von Mniénjan.

BARRANDE (1852) included this species in the synonymy of *Proetus orbitatus* Barrande, 1846.

Lectotype: (herein), pygidium with exoskeleton, figured by ŠNAJDR 1980 as holotype by monotypy. Acanthopyge Limestone, Měňany (exact locality unknown). NM L 18310; original label. Figured by ŠNAJDR 1980, pl. 13, fig. 5.

Remarks: HAWLE and CORDA (1847) had several pygidia at hand when they erected this species. The type specimen must be considered lectotype.

Occurrence: Dalejan, Acanthopyge Limestone, lower layers.

Specific designation: *Orbitoproetus angelini* (HAWLE et CORDA, 1847).

angusticeps, Aulacopleura

HAWLE and CORDA (1847, p. 85), im Kalke bei Kolednik.

BARRANDE (1852) listed this species in the synonymy of *Arethusa Konincki* Barrande, 1846.

Remarks: PRANTL and PŘIBYL (1950) considered this species to be synonymous with *Aulacopleura konincki* (Barrande) (partim) and *Cyphoproetus novellus* (Barrande) (partim). No syntype has been found up to day. Nomen dubium.

applanata, Odontochile

Pl. 13, fig. 7.

HAWLE and CORDA (1847, p. 93, pl. 5, fig. 56), gesellig mit *O. Hausmanni*, Kalkstein von Prag.

BARRANDE (1852) listed this species in the synonymy of *Dalmania Hausmanni* Brongniart.

Lectotype: (SD Chlupáč in HORNÝ and BASTL, 1970) cephalon with damaged part of thorax, preserved with exoskeleton in limestone. Dvorce — Prokop Limestone, Praha (exact locality unknown). NM L 19797; original label.

Specific designation: *Odontochile hausmanni* (Brongniart, 1822).

applanatum, Phalacroma

HAWLE and CORDA (1847, p. 45), Thonschiefer von Pták.

BARRANDE (1852) listed this species under designation *Cyclus bohemicus* Barrande, 1852.

Remarks: BARRANDE (1852, p. 897) considered *Ph. applanatum* to be an unique unidentifiable fossil named by him *Cyclus bohemicus* Barrande. No syntype has yet been discovered. Nomen dubium.

Archiaci, Prionopeltis

HAWLE and CORDA (1847, p. 123), Kalk von Kolednik. Syn. *Phaeton Archiaci* Barrande, 1846.

Remarks: No syntype has yet been discovered. ŠNAJDR (1980) listed this species among nomina dubia.

asaphoides, Illaenus

Pl. 1, fig. 1.

HAWLE and CORDA (1847, p. 54), Grauwakkenschiefer von Beraun.

BARRANDE (1852) placed this species in the synonymy of *Aeglina speciosa* Corda.

Holotype: (by monotypy), pygidium with exfoliated doublure (internal mould in shale). Králův Dvůr Formation, neighbourhood of Beroun (exact locality unknown). NM L 19785; original label, the rock bears name in ink "*Illaeus asaph.*" and symbol "H".

Remarks: BARRANDE (1852) mentioned one pygidium (holotype). *Illaeus asaphoides* Hawle et Corda, 1847 (non *Illaeus asaphoides* Grabau, 1925) is conspecific with the species *Microparia speciosa* (Hawle et Corda) in the sense of BARRANDE (1852), MAREK (1961) and Marek in HORNÝ and BASTL (1970).

Occurrence: Kralodvorian, Králův Dvůr Formation.

Specific designation: *Microparia speciosa* (HAWLE et CORDA, 1847).

asaphoides, Proetus

HAWLE and CORDA (1847, p. 78), Kalk von Mniénjan.

BARRANDE (1852) placed this species in the synonymy of *Proetus myops* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL, 1970), pygidium with exoskeleton in limestone. Suchomasty Limestone, Měňany (exact locality unknown). NM L 18318; original label, inky symbol "H 26". Figured by Šnajdr 1980, pl. 14, fig. 8.

Specific designation: *Myoproetus myops* (BARRANDE, 1846).

Ascanius, Prionopeltis

HAWLE and CORDA (1847, p. 125), Kalk von Mniénjan, selten.

BARRANDE (1852) referred this species to *Proetus Ascanius* Corda.

Holotype: (by monotypy), fragment of cranidium with exoskeleton in limestone. Suchomasty Limestone, Měňany (exact locality unknown). NM L 18322; original label, inky symbol "H 10". Figured by ŠNAJDR 1980, pl. 18, fig. 9.

Specific designation: *Tropidocoryphe latens* (BARRANDE, 1846).

asper, Phacops

HAWLE and CORDA (1847, p. 102), Kalk bei Chodaun.

BARRANDE (1852) placed this species in the synonymy of *Phacops fecundus* Barrande, 1846.

Lectotype: (SD Chlupáč in HORNÝ and BASTL 1970), cephalon, internal mould with relics of exoskeleton. Kopanina Formation, Anaspis fecunda Horizon, exact locality unknown (probably environment of Be-

roun). NM L 19772; original label. Figured by CHLUPÁČ 1977, pl. 5, figs. 9, 10.

Occurrence: Ludlovian, Kopanina Formation, Horizon with *Anaspis fecunda*.

Specific designation: *Anaspis fecunda aspera* (HAWLE et CORDA, 1847). SD CHLUPÁČ 1977.

aspera, Dicranopeltis

Pl. 4, fig. 5.

HAWLE and CORDA (1847, p. 142), Kalk vom Kosel, sehr selten.

BARRANDE (1852) incorporated this species in the synonymy of *Lichas scabra* Beyrich, 1845.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete cephalon with exoskeleton. Boundary beds of Liteň and Kopanina Formations, Kozel or neighbourhood of Lištice in the Berounka river valley. NM L 19796; the rock bears symbol in ink "H 3".

Remarks: HAWLE and CORDA (1847) described only pygidium: BARRANDE (1852) mentioned fragments of cranidium and pygidium. VANĚK (1959, pl. 4, fig. 1) and FRANTL and VANĚK in HORNÝ, PRANTL and VANĚK (1958, pl. 6, fig. 1) designated incomplete cranidium NM L 18644 as the lectotype of *D. aspera*. This choice is invalid — the rock bears symbols in ink "H 2"; the specimen is syntype of *Dicranopeltis granulosa* Hawle et Corda.

Specific designation: *Dicranopeltis scabra scabra* (BEYRICH, 1845).

aspera, Odontochile

Pl. 6, fig. 9.

HAWLE and CORDA (1847, p. 94), Kalk von Prag.

BARRANDE (1852) placed this species in the synonymy of *Dalmania Hausmanni* Brongniart, 1822.

Lectotype: (herein), incomplete cephalon preserved with exoskeleton in limestone, designated by HORNÝ and BASTL (1970) as holotype by monotypy. Dvorce-Prokop Limestone, Praha (exact locality unknown). NM L 19798; original label, inky symbol "H 6".

Remarks: Second originally labelled syntype has been found (complete partly enrolled specimen with damaged cephalon).

Specific designation: *Odontochile hausmanni* (BRONGNIART, 1822).

aspera, Eccoptochile

Pl. 1, fig. 6.

HAWLE and CORDA (1847, p. 131), im Quarzite vom Stadtberge bei Beraun.

BARRANDE (1852) referred this species to the synonymy of *Cheirurus claviger* Beyrich, 1845.

Holotype: (by monotypy), cephalon + two thoracic segments (internal mould in sandstone). Letná Formation, Beroun (exact locality unknown). NM L 17621; no original label — the rock bears symbols in ink: letter "H" and name "*aspera*".

Remarks: BARRANDE (1852) mentioned one cephalon with two tho-

racic segments of young specimen (=holotype). PŘIBYL and VANĚK (1969a) placed this species in the synonymy of *Eccoptochile (E.) perlata* Hawle et Corda.

Specific designation: *Eccoptochile (E.) clavigera* (BEYRICH, 1845).

aspera, *Conoparia*

Pl. 13, fig. 3.

HAWLE and CORDA (1847, p. 82), bei Prag.

BARRANDE (1852), placed this species in the synonymy of *Cyphaspis convexa* Corda.

Holotype: (by monotypy), incomplete cranidium with original exoskeleton preserved in limestone. Dvorce-Prokop Limestone, Praha (exact locality unknown). NM L 19767; original label, inky symbol "H 6".

Specific designation: *Otarion convexum* (HAWLE et CORDA, 1847).

asperula, *Diplorrhina*

Pl. 5, fig. 2.

HAWLE and CORDA (1847, p. 49), Thonschiefer von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Agnostus integer* Beyrich.

Holotype: (by monotypy), tr deformed cephalon with one thoracic segment (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 5089, no original label, no symbol in ink.

Remarks: Hawle and Corda described one cephalon; BARRANDE (1852) mentioned two cephalons. HORNÝ and BASTL (1970) discovered one specimen only (=holotype by monotypy). The syntype is questionable because it is not originally labelled and is at variance with its original description given by HAWLE and CORDA.

Specific designation: *Diplorrhina triplicata* Hawle et Corda, 1847.

asperulus, *Bronteus* (*Holomeris*)

HAWLE and CORDA (1847, p. 58), Kalk von Konieprus.

BARRANDE (1852) placed this species in the synonymy of *Bronteus Zippei* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1960), incomplete pygidium with exoskeleton, preserved in limestone. Koněprusy Limestone, Koněprusy (exact locality unknown). NM L 5621, original label. Figured by ŠNAJDR 1960, pl. 34, fig. 8.

Remarks: ŠNAJDR (1960, pl. 28, fig. 10) erroneously figured the pygidium NM L 5274 as lectotype of *B. asperulus*; this specimen is conspecific with *Microscutellum zippei* (Barrande).

Specific designation: *Microscutellum hawlei* (BARRANDE, 1852).

Astyanax, *Prionopeltis*

HAWLE and CORDA (1847, p. 125), Weiss-Kalk Koniéprus, sehr selten.

BARRANDE (1852) designated this species as *Proetus Astyanax* Corda.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), cephalon with

partly exfoliated duplicature on left librigena. Koněprusy Limestone, Koněprusy (exact locality unknown). NM L 12753; original label destroyed, the rock bears relict symbol in ink "H". Figured by BARRANDE 1852, pl. 17, figs. 22, 23. Refigured by ŠNAJDR 1980, pl. 29, fig. 16.
Specific designation: *Astycoryphe gracilis* (BARRANDE, 1846).

attenuatus, *Illaeus*

Pl. 1, fig. 4.

HAWLE and CORDA (1847, p. 54), Grauwakke von Beraun.

BARRANDE (1852) referred the syntypes to the species *Illaeus Panderi* Barrande, 1852 and *Illaeus Salteri* Barrande, 1852.

Lectotype: (herein), pygidium with denuded duplicature preserved as internal mould in siltshale. Zahořany Formation, Broun area (exact locality unknown). NM L 17639, original label.

Remarks: ŠNAJDR (1957) mentioned several cranidia and pygidia belonging to *Cekovia salteri* and *Stenopareia panderi*. In the National Museum collection only one syntype (=lectotype) has been found during this revision. As the specific designation *Illaeus attenuatus* has been omitted for more than 50 years, the younger, commonly used name *panderi* is considered valid in accordance with IRZN.

Specific designation: *Stenopareia panderi* (Barrande, 1852) (partim).

aulicus, *Bronteus* (Holomeris)

HAWLE and CORDA (1847, p. 58), roth Kalk von Litten und Mniénjan.

BARRANDE (1852) placed this species in the synonymy of *Bronteus Brongniarti* Barrande, 1846.

Lectotype: (herein), pygidium of young specimen preserved with corroded exoskeleton in limestone; designated by HORNÝ and BASTL (1970) as holotype by monotypy. Suchomasty Limestone, environment of Měňany (exact locality unknown). NM L 5277; original label, the rock bears inky symbol "H 3". Figured by ŠNAJDR 1960, pl. 24, fig. 9; here further remarks to zoological validity.

Remarks: The part of Hawle's collection obtained by Corda for Bohemian Museum (4th July, 1847) included two specimens of *Bronteus aulicus*.

Specific designation: *Paralejurus dormitzeri* (BARRANDE, 1852).

auriculata, *Odontochile*

Pl. 13, fig. 9.

HAWLE and CORDA (1847, p. 94), Kalk bei Prag. Syn. *Asaphus auriculatus* Dalman.

BARRANDE (1852) designated this species as *Dalmania auriculata* Dalman.

Lectotype: (herein), nearly complete pygidium preserved as internal mould with relics of exoskeleton. Zlíchov Formation, Praha (exact locality unknown). NM L 17681, original label, inky symbol "H".

Specific designation: *Odontochile auriculata* (DALMAN, 1826).

Bachofenii, *Micropyge*

Pl. 3, fig. 1.

HAWLE and CORDA (1847, p. 22, pl. 1, figs. 8, 9), Grauwacke von Skrey.

BARRANDE (1852) incorporated this species in the synonymy of *Sao hirsuta* Barrande, 1846 (degree 15).

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), complete specimen with damaged cephalon preserved as internal mould in shale (meraspid stage 12 or 13). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 19775; original label destroyed, the rock bears the name in ink "*Microparia Bachofenii*".

Specific designation: *Sao hirsuta* Barrande, 1846.

Barrandei, *Trinucleus*

Pl. 1, fig. 5.

HAWLE and CORDA (1847, p. 41), im Quarzite von Wesela. Syn. *Trinucleus Goldfussii* Barrande, *Trinucleus ornatus* Sternberg.

BARRANDE (1852) placed this species in the synonymy of *Trinucleus Goldfussi* Barrande, 1846.

Lectotype: (SD PŘIBYL and VANĚK 1969b), cephalon with broken off left genal spine, preserved as internal mould in sandstone; lower lamella denuded in the right part of cephalon. Letná Formation, Veselá near Beroun. NM L 18309; original label.

Remarks: As can be seen from the description given by Hawle and Corda, the species *Barrandei* was represented in the Hawle's collection by several specimens. The holotype erected by MAREK in HORNÝ and BASTL (1970) is therefore considered lectotype (=the same specimen designated as lectotype by PŘIBYL and VANĚK 1969b).

Specific designation: *Deanaspis goldfussi* (BARRANDE, 1846).

Barrandii, *Ctenocephalus*

Pl. 13, fig. 2.

HAWLE and CORDA (1847, p. 26, pl. 2, fig. 12), Schiefer von Skrey. Syn. *Conocephalus coronatus* Barrande.

BARRANDE (1852) declared this species as synonymous with *Conocephalus coronatus* Barrande, 1846.

Lectotype: (herein), incomplete cranidium with relics of eight thoracic segments (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 17666, original label.

Remarks: BARRANDE (1852, pl. 13, figs. 23, 24) figured complete specimen as coming from Hawle's collection (=syntype of Hawle and Corda NM L 12643, not originally labelled).

Specific designation: *Ctenocephalus coronatus* (BARRANDE, 1846).

Barrandii, *Cyphaspis*

Pl. 1, fig. 7.

HAWLE and CORDA (1847, p. 81, pl. 4, fig. 40), Kalk von St. Johann. Syn. *Cyphaspis clavifrons* Barrande (1846a).

BARRANDE (1852) designated this species as *Cyphaspis Barrandei* Corda.

Neotype: (herein), nearly complete specimen (internal mould with relics of exoskeleton) preserved in limestone; identical with lectotype in HORNÝ and BASTL 1970. Zlíchov Formation, probably Hostím. NM L

12833; no original label. The rock bears no symbol in ink (=syntype admitting no proof). Figured by BARRANDE 1852, pl. 18, figs. 38—40; the specimen was not reported by BARRANDE as coming from Hawle's collection.

Remarks: The lectotype erected by PŘIBYL in HORNÝ and BASTL (1970) is questionable (=syntype admitting no proof); the rock samples of two auxiliary Barrande's types (AD pl. 38, figs. 38—40) are not originally labelled too (NM L 12853, L 12854). The lectotype erected by Přebyl is therefore considered neotype.

Occurrence: Zlichovian, Zlíchov Limestone.

Specific designation: *Otarion (Cyphaspis) hydrocephalum barrandei* (HAWLE et CORDA, 1847). SD PŘIBYL and VANĚK 1981.

Beaumontii, Amphion

HAWLE and Corda (1847, p. 92, pl. 5, fig. 54), bei Kolednik und Königshof. Syn. *Calymene? Beaumontii* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Cromus Beaumontii* Barrande, 1846.

Remarks: No syntype has yet been discovered; nomen dubium.

Berkeleyanus, Bronteus (Dicranactis)

HAWLE and CORDA (1847, p. 61, pl. 4, fig. 34), im Kalke von Dvoretz, selten.

BARRANDE (1852) listed this species in the synonymy of *Bronteus formosus* Barrande, 1846.

Holotype: (by monotypy), nearly complete specimen with exoskeleton, preserved in limestone. Dvorce-Prokop Limestone, Praha Podolí (Dvorce). NM L 16435, original label. Figured by BARRANDE 1852, pl. 47, figs. 1—3; refigured by ŠNAJDR 1960, pl. 16, fig. 4.

Remarks: R. and E. RICHTER (1943) selected the lectotype of *Bronteus formosus* Barrande; this choice is invalid, as the specimen is identical with holotype of *Br. Berkeleyanus*. New lectotype of *Bronteus formosus* is therefore designated: thorax with incomplete pygidium, figured by ŠNAJDR 1960 on pl. 16, fig. 2, NM L 16436, coll. J. Barrande, Dvorce-Prokop Limestone, Praha, Velká Chuchle.

Specific designation: *Platyscutellum formosum formosum* (BARRANDE, 1846).

Beyrichii, Selenopeltis

HAWLE and CORDA (1847, p. 35), Schiefer von Pták, sehr selten.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis Buchi* Barrande, 1846.

Holotype: (by monotypy), incomplete compressed meraspid specimen — cephalon with relics of five disarticulated thoracic segments; preserved as internal mould in shale. Vinice Formation, Beroun area (exact locality unknown). NM L 784, no original label; the specimen has been stored in the originally labelled box. Figured by ŠNAJDR (MS 1) on pl. 5, fig. 4.

Occurrence: Berounian, Vinice Formation.

Specific designation: *Selenopeltis inermis beyrichi* Hawle et Corda, 1847.

Beyrichii, *Odontopleura*

Pl. 3, fig. 6.

HAWLE and CORDA (1847, p. 152), im Kalke von Koledník.

BARRANDE (1852) incorporated this species in the synonymy of *Acidaspis Leonhardi* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL, 1970), incomplete right librigena with exoskeleton preserved in limestone. Kopanina Formation, horizon with *Ananaspis fecunda* or *Prionopeltis archiaci* Horizon, Koledník near Beroun (exact locality unknown). NM L 5364, no original label; the rock bears the symbol in ink "H 15".

Remarks: BRUTON (1968) included this species in the synonymy of *Leonaspis (L.) leonhardi* (Barrande).

Specific designation: *Leonaspis (L.) leonhardi* (BARRANDE, 1846).

Boeckii, *Phacops*

HAWLE and CORDA (1847, p. 107), im Kalke bei Dworetz.

BARRANDE (1852) designated this species as *Phacops Boeckii* Corda.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), incomplete cephalon with relics of seven thoracic segments (exoskeleton partly preserved). Dvorce-Prokop Limestone, Praha Dvorce. NM L 19809, original label. Figured by CHLUPÁČ 1972, pl. 2, fig. 6; refigured by CHLUPÁČ 1977, pl. 15, figs. 1, 2.

Occurrence: Pragian; Dvorce-Prokop, Vinařice, Řeporyje Limestones.

Specific designation: *Phacops (Boeckops) boeckii* Hawle et Corda, 1847. SD CHLUPÁČ 1977.

bohemicus, *Paradoxides*

HAWLE and CORDA (1847, p. 30), im Schiefer von Jinetz. Syn. *Paradoxides Tessini* (in BARRANDE 1846a); *Olenus longicaudatus* Zenker; *Trilobites Bohemicus* Boeck.

BARRANDE (1852) placed this species in the synonymy of *Paradoxides bohemicus* Boeck, 1827.

Remarks: Probably conspecific with *Paradoxides gracilis* (Boeck). No syntype has yet been discovered. Nomen dubium.

bohemicus, *Proetus*

HAWLE and CORDA (1847, p. 73, pl. 4, fig. 43), im weissen Kalk von Koniéprus. Syn. *Proetus concinnus* Dalman (in BARRANDE 1846a).

BARRANDE (1852) designated this species as *Proetus Bohemicus* Corda.

Neotype: (SD ŠNAJDR 1980), complete enrolled specimen with corroded exoskeleton. Neotype is identical with lectotype erected by PŘIBYL in HORNÝ and BASTL 1970. Koněprusy Limestone, Koněprusy (exact locality unknown). NM L 12731; no original label, no inky symbols. Figured by BARRANDE 1852, pl. 16, figs. 4, 5; refigured by ŠNAJDR 1980, pl. 6, fig. 1.

Remarks: No originally labelled syntype has yet been discovered.

Occurrence: Pragian, Koněprusy Limestone.

Specific designation: *Gerastos (Bohemiproetus) bohemicus* (HAWLE et CORDA, 1847).

bohemicus, Ampyx

HAWLE and CORDA (1847, p. 38, pl. 3, fig. 19), Schiefer bei Beraun, sehr selten.
BARRANDE (1852) placed this species in the synonymy of *Ampyx Portlocki* Barrande, 1846.

Remarks: The part of Hawle's collection obtained by Corda for Bohemian Museum (4th July, 1847) included two specimens of *A. bohemicus*. No syntype has yet been discovered. Nomen dubium.

boops, Proetus

Pl. 8, fig. 4.

HAWLE and CORDA (1847, p. 75), Kalk bei Koledník.

BARRANDE (1852) declared this species as synonymous with the species *Proetus Ryckholtii* Barrande, 1846.

Lectotype: (herein), incomplete pygidium with exoskeleton preserved in limestone. Kopanina Formation, horizon with *Anaspis fecunda*, Koledník near Beroun (exact locality unknown). NM L 11412, original label.

Remarks: ŠNAJDR (1980) mentioned this species in the list of nomina dubia. In J. Vaněk's collection obtained by purchase for the Geological Survey, Prague (ÚÚG) an originally labelled syntype has been found which is here designated as lectotype. The sample bears a relic of original Hawle's label, original label of H. J. Zeidler (inv. No. 610) and Vaněk's inventory number SMP 5877.

Specific designation: *Coniproetus (Ryckholtia) ryckholtii* (BARRANDE, 1846).

Bronnii, Odontopleura

HAWLE and CORDA (1847, p. 150), Kalk von St. Johann s. selten.

BARRANDE (1852) included this species in the synonymy of *Acidaspis Prévosti* Barrande, 1846.

Remarks: Barrande mentioned one cranidium. PRANTL and PŘIBYL (1949) and BRUTON (1967) regarded this species to be conspecific with *Odontopleura ovata* Emmrich.. No syntype has yet been discovered. Nomen dubium.

Buchii, Proetus

HAWLE and CORDA (1847, p. 74), bei Mniénjan.

BARRANDE (1852) placed this species in the synonymy of *Proetus complanatus* Barrande, 1846.

Lectotype: (SD PŘIBYL 1969), cephalon with part of exoskeleton in limestone. Suchomasty Limestone, Měňany (exact locality unknown). NM L 18317, original label; the rock bears inky symbol "H 6". Figured by PŘIBYL 1969, pl. 1, figs. 1, 2; refigured by ŠNAJDR 1980, pl. 42, figs. 7, 8.

Specific designation: *Buchiproetus complanatus* (BARRANDE, 1846).

Buchii, Selenopeltis

HAWLE and CORDA (1847, p. 35), Grauwackenschiefer Praskoles.

Syn. *Odontopleura Buchii* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis Buchi* Barrande, 1846.

Remarks: No syntype has yet been discovered. Nomen dubium.

Burmeisteri, Conoparia

Pl. 13, fig. 1.

HAWLE and CORDA (1847, p. 83, pl. 5, fig. 46), im Kalk von St. Johann.

Syn. *Cyphaspis Burmeisteri* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Cyphaspis Burmeisteri* Barrande, 1846.

Lectotype: (herein), pygidium with exoskeleton preserved in limestone. Kopanina Formation, horizon with *Prionopeltis archiaci*, Beroun area (exact locality unknown). NM L 5391, original label; the rock bears inky symbol "H 10".

Remarks: The type locality is questionable; as the locality St. Johann may be omitted from consideration, the present author believes that the lectotype can be ranged to Beroun area (Jarov or Dlouhá Hora).

Specific designation: *Otarion burmeisteri* (BARRANDE, 1846).

Burmeisteri, Odontopleura

Pl. 4, fig. 1.

HAWLE and CORDA (1847, p. 157), im Kalke von Mniénjan. selten.

BARRANDE (1852) incorporated this species in the synonymy of *Acidaspis radiata* Goldfuss, 1843.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete pygidium with corroded exoskeleton. Suchomasty Limestone, Koněprusy area (exact locality unknown). NM L 19788; the rock bears a relic symbol in ink "32" and a label with text "Suchomasty Wald".

Specific designation: *Radiaspis radiata* (GOLDFUSS, 1843). SD PŘIBYL in HORNÝ and BASTL 1970.

carinatum, Phalacroma

Pl. 5, fig. 16.

HAWLE and CORDA (1847, p. 44), Schiefer von Skrey, sehr selten.

BARRANDE (1852) placed this species in the synonymy of *Agnostus nudus* Beyrich, 1845.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), complete specimen (meraspis 1—1) preserved as internal mould in shale; cephalon displaced. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 5110, original label.

Specific designation: *Phalagnostus nudus* (BEYRICH, 1845).

carinatus, Agraulos

HAWLE and CORDA (1847, p. 27), locality not mentioned.

BARRANDE (1852) placed this species in the synonymy of *Arionellus ceticephalus* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1958), cranidium preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Skryje area (exact locality unknown). NM L 19633, original label. Figured by ŠNAJDR 1958, pl. 37, fig. 10.

Specific designation: *Agraulos ceticephalus* (BARRANDE, 1846).

carinatus, Bronteus (Holomeris)

HAWLE and CORDA (1847, p. 59), Kalk vom Kosel.

BARRANDE (1852) mentioned several specimens from Kosel and Dlauha Hora and placed the species *B. carinatus* in the synonymy of *Bronteus Partschii* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1960), damaged cephalon with four incomplete thoracic segments, preserved with exoskeleton in limestone. Kopanina Formation, probably boundary beds of *Ananaspis fecunda* and *Prionopeltis archiaci* Horizons. Locality unknown, probably Dlauha Hora. NM L 5262, original label. Figured by ŠNAJDR 1960, pl. 4, fig. 8.

Remarks: Several syntypes from Hawle's collection are known; stratigraphical and geographical origin is different (Kozel near Lištice, Kosov near Beroun — see BARRANDE 1852).

Specific designation: *Kosovopeltis partschi* (BARRANDE, 1846).

carinatus, Harpes

Pl. 5, fig. 11.

HAWLE and CORDA (1847, p. 165), im Kalke von Mniénjan.

BARRANDE (1852) incorporated this species in the synonymy of *Harpes reticulatus* Corda.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), cephalon with exoskeleton (young specimen) preserved in limestone. Suchomasty Limestone, Měňany (exact locality unknown). NM L 19790, no original label; the rock bears inky symbol "H".

Specific designation: *Harpes (Reticuloharpes) reticulatus* Hawle et Corda, 1847. SD PŘIBYL in HORNÝ and BASTL 1970.

Caroli Alexandri, Actinopeltis

HAWLE and CORDA (1847, p. 132, pl. 1, fig. 4), Grauwackenschiefer bei Beraun.

BARRANDE (1852) placed this species in the synonymy of *Cheirus globosus* Barrande, 1846.

Holotype: (by monotypy), complete specimen preserved as internal mould in shale. Králův Dvůr Formation, Beroun area (exact locality unknown). NM L 16334; no original label, no inky symbols. Figured by BARRANDE 1852, pl. 43, fig. 27; refigured by PŘIBYL and VANĚK 1980, pl. 3, fig. 7.

Occurrence: Kralodvorian, Králův Dvůr Formation.

Specific designation: *Actinopeltis carolialexandri* Hawle et Corda, 1847. SD PŘIBYL and VANĚK 1980.

cephalotes, Phacops

HAWLE and CORDA (1847, p. 108), im grauen Kalk von Tetin. Syn. *Phacops protuberans* Dalman (in BARRANDE 1846a).

BARRANDE (1852) designated this species as *Phacops cephalotes* Corda.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), damaged incomplete cephalon with ten thoracic segments; enrolled specimen preserved as internal mould in limestone. Dvorce-Prokop Limestone, Tetín. NM L 5176, original label. Figured by Chlupáč 1977, pl. 24, fig. 1.

Remarks: G. ALBERTI (1970) recorded this species in Praglan of Morocco.

Occurrence: Fragian; Dvorce-Prokop, Řeporyje, Loděnice and Vinařice Limestones.

Specific designation: *Reedops cephalotes* (HAWLE et CORDA, 1847).

Cerberus, Conoparia

Pl. 4, fig. 3.

HAWLE and CORDA (1847, p. 82), Kalk von Konieprus. Syn. *Cyphaspis Cerberus* Barrande.

BARRANDE (1852) designated two syntypes of Hawle and Corda as *Cyphaspis Barrandei* Corda.

Lectotype: {SD PŘIBYL in HORNÝ and BASTL 1970}, incomplete cranidium with exoskeleton, preserved in limestone. Koněprusy Limestone. Koněprusy (exact locality unknown). NM L 19766, original label; the rock bears symbol in ink "H 2".

Specific designation: *Otarion (Cyphaspis) hydrocephalum conigerum* (HAWLE et CORDA, 1847). SD PŘIBYL and VANĚK 1981.

ceticephalus, Agraulos

HAWLE and CORDA (1847, p. 27), Schiefer von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Arion ceticephalus* Barrande, 1846.

Remarks: The part of Hawle's collection obtained by Corda for Bohemian Museum (4th July, 1847) included four specimens of *A. ceticephalus*. No syntype has yet been discovered. Nomen dubium.

clavigera, Eccoptochile

HAWLE and CORDA (1847, p. 130, pl. 6, fig. 69), im Quarzite von Wessela, Wraž und dem Stadtberge von Beraun. Syn. *Chirurus claviger* Beyrich.

BARRANDE (1852) declared this species as synonymous with *Cheirurus clavigera* Beyrich; he mentioned several fragments from Hawle's collection.

No syntype has yet been found. Nomen dubium.

concavus, Harpes

Pl. 3, fig. 10.

HAWLE and CORDA (1847, p. 163), im grauen Kalke von Koledník.

BARRANDE (1852) placed this species in the synonymy of *Harpes ungula* Sternberg.

Lectotype: {SD PŘIBYL in HORNÝ and BASTL 1970}, incomplete cephalon with partly exfoliated exoskeleton in limestone. Kopanina Formation, probably horizon with *Prionopeltis archiaci*, Koledník (exact locality unknown). NM L 19793, original label.

Remarks: PRANTL and PŘIBYL (1954) incorporated this species in the synonymy of *Harpes ungula* (Sternberg).

Specific designation: *Bohemoharpes ungula ungula* (STERNBERG, 1833).

confusus, Proetus

HAWLE and CORDA (1847, p. 73), Kalk von Konieprus.

BARRANDE (1852) included this species in the synonymy of *Proetus bohemicus* Corda.

Lectotype: {SD ŠNAJDR 1980}, cephalon with exoskeleton preserved

in limestone (anterior border partly damaged). Koněprusy Limestone, Koněprusy (exact locality unknown). NM L 5399; no original label, the sample was minimalized in size. Figured by ŠNAJDR 1980, pl. 7, figs. 10—12.

Remarks: The second syntype (NM L 14855) is labelled *Proetus confusus* Corda = *Proetus orbitatus* Barrande and is not conspecific with the lectotype.

Occurrence: Pragian, Koněprusy Limestone.

Specific designation: *Gerastos (Longiproetus) confusus confusus* (HAWLE et CORDA, 1847).

convexa, *Conoparia*

Pl. 6, fig. 3.

HAWLE and CORDA (1847, p. 83), bei Damily in Kalk.

BARRANDE (1852) designated this species as *Cyphaspis convexa* Corda.

Holotype: (by monotypy), cranidium with exoskeleton preserved in limestone (occipital ring and palperal lobes broken off). PRANTL and PŘIBYL (1950) considered this specimen lectotype. Dvorce-Prokop Limestone, Damil near Tetín. NM L 5356, original label; the rock bears inky symbol "H 7". Figured by BARRANDE 1852, pl. 18, figs. 52, 53.

Remarks: Only one syntype is known (=holotype by monotypy, herein). ERBEN (1952) and LÜTKE (1965) recorded this species in Harz, OSMOLSKA (1957) in Poland.

Occurrence: Pragian, Dvorce-Prokop Limestone.

Specific designation: *Otarion (Conoparia) convexum* (HAWLE et CORDA, 1847). SD PŘIBYL and VANĚK 1981.

convexus, *Harpes*

Pl. 6, fig. 6.

HAWLE and CORDA (1847, p. 165), Kalk von Mniénjan.

BARRANDE (1852) placed this species in the synonymy of *Harpes reticulatus* Corda.

Lectotype: (herein), incomplete cephalon with damaged glabella preserved as internal mould in limestone. Suchomasty Limestone, Měňany (exact locality unknown). NM L 18339, original label, inky symbol "H".

Remarks: PRANTL and PŘIBYL (1954, pl. 9, fig. 3) selected as lectotype incomplete cephalon with corroded exoskeleton; this specimen (NM L 6138) is syntype admitting no proof (no original label, no symbols in ink on the rock).

Occurrence: Dalejan, Suchomasty Limestone.

Specific designation: *Kielania convexa* (HAWLE et CORDA, 1847).

convexus, *Proetus*

HAWLE and CORDA (1847, p. 77), im weissen Kalk von Konieprus.

Syn. *Trilobites orbitatus* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Proetus orbitatus* Barrande, 1846.

Holotype: (by monotypy), poorly preserved pygidium (internal mould with relics of exoskeleton) in limestone. Suchomasty Limestone, Koně-

prusy (exact locality unknown). NM L 18312, original label; the rock bears inky symbol "19". Figured by ŠNAJDR 1980, pl. 12, fig. 11.
Specific designation: *Orbitoproetus orbitatus* (BARRANDE, 1846).

cornigera, *Conoparia*

Pl. 4, fig. 6.

HAWLE and CORDA (1847, p. 81), im weissen Kalke von Konieprus.

BARRANDE (1852) placed this species in the synonymy of the species *Cyphaspis Barrandei* Corda.

Holotype: (by monotypy), incomplete cephalon with exoskeleton in limestone. Koněprusy Limestone, Koněprusy (exact locality unknown). NM L 17672, original label.

Remarks: Barrande reported one cranium as coming from Hawle's collection.

Occurrence: Pragian, Koněprusy Limestone.

Specific designation: *Otarion (Cyphaspis) hydrocephalum cornigerum* (HAWLE et CORDA, 1847). SD PŘIBYL and VANĚK 1981.

crassicornis, *Odontopleura*

Pl. 3, fig. 3.

HAWLE and CORDA (1847, p. 155), Kalk von Chodaun sehr selten.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis mira* Barrande.

He mentioned unique cranium.

Holotype: (by monotypy), incomplete cranium with exoskeleton preserved in bioclastic limestone with *Bumastus*. Liteň Formation (high), Lištice or environment of this village. NM L 3667, no original label; the rock bears inky symbol "H 23".

Remarks: PRANTL and VANĚK in HORNÝ—PRANTL—VANĚK (1958, pl. 5, fig. 4) erected and figured the lectotype (=syntype of Hawle and Corda admitting no proof — no label, no symbol in ink); a single syntype of Hawle and Corda mentioned by HORNÝ and BASTL 1970 (NM L 3667) is therefore considered holotype by monotypy (see BARRANDE 1852).

Occurrence: Wenlockian (high), Liteň Formation.

Specific designation: *Miraspis mira crassicornis* (HAWLE et CORDA, 1847). SD PRANTL and VANĚK 1958.

cribrosus, *Trinucleus*

Pl. 16, fig. 5.

HAWLE and CORDA (1847, p. 40), Umgegend von Prag.

BARRANDE (1852) declared this species as synonymous with *Trinucleus ornatus* Sternberg; he mentioned one specimen.

Holotype: (by monotypy), deformed incomplete cephalon with partly exfoliated lower lamella; preserved as internal mould in shale. Vinice (or Zahořany) Formation, Praha (exact locality unknown). NM L 18308, no original label; the rock bears the symbol in ink "H" and name „*cribrosus*". Figured by PŘIBYL and VANĚK 1969b, pl. 14, fig. 6. Refigured in this paper.

Remarks: HAWLE and CORDA (1847) reported one specimen only. This specimen is therefore considered holotype by monotypy and not lec-

tototype as PŘIBYL and VANĚK (1969b) done. HUGHES et al. (1975) listed this species as nomen dubium. *Trinucleus cribrosus* is probably conspecific with *Onnia vysocanensis* Pribyl et Vaněk, 1980 or *Trinucleus Senftenbergii* Hawle et Corda, 1847.

Specific designation: ? *Marrolithus cribrosus* (HAWLE et CORDA, 1847).

cristata, Diplorrhina

Pl. 3, fig. 7.

HAWLE and CORDA (1847, p. 50), von Skrey, sehr selten.

BARRANDE (1852) mentioned one pygidium and placed this species in the synonymy of *Agnostus integer* Beyrich, 1845.

Holotype: (by monotypy), deformed pygidium preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 5142, original label.

Specific designation: *Diplorrhina triplicata* (HAWLE et CORDA, 1847).

cristata, Odontochile

Pl. 2, fig. 2.

HAWLE and CORDA (1847, p. 94), im Kalk bei Prag.

BARRANDE (1852) designated this species as *Dalman'a cristata* Corda.

Lectotype: (herein), deformed incomplete pygidium in limestone, exoskeleton partly exfoliated; HORNÝ and BASTL 1970 designated this specimen as holotype by monotypy). Dvorce-Prokop Limestone, Praha (exact locality unknown). NM L 19799, original label; the rock bears inky symbol "H 4".

Remarks: Second syntype originally labeled (*Odontochile cristata* Corda = *Dalmania cristata* Barrande) has been found; it is pygidium with partly exfoliated exoskeleton.

Occurrence: Pragian, Dvorce-Prokop Limestone.

Specific designation: *Odontochile cristata* Hawle et Corda, 1847.

cruciatus, Chirurus

Pl. 4, fig. 2.

HAWLE and CORDA (1847, p. 135), im rothen Kalke von Mniénjan selten.

BARRANDE (1852) placed this species in the synonymy of *Cheirurus gibbus* Beyrich; he mentioned one specimen.

Holotype: (by monotypy), cranidium with corroded exoskeleton in bioclastic limestone; the sample was minimalised in size. Suchomasty Limestone, Měňany (exact locality unknown). NM L 6353, no original label; the rock bears inky symbols "H" and the name "cruciatus". Figured by PŘIBYL and VANĚK 1973, pl. 5, fig. 7. Refigured in this paper.

Occurrence: Dalejan, Suchomasty Limestone.

Specific designation: *Cheirurus (Crotalocephalina) cruciatus* Hawle et Corda, 1847. SD PŘIBYL in HORNÝ and BASTL 1970.

cultrifrons, Phacops

HAWLE and CORDA (1847, p. 101), im groben krystallinischen Kalke von, Herinek. Syn. *Phacops trapeziceps* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Phacops trapeziceps* Barrande, 1846.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), cephalon with exoskeleton preserved in limestone. Liteň Formation, Lištice. NM L 19777. original label. Figured by CHLUPÁČ 1977, pl. 2, fig. 11.

Specific designation: *Eophacops trapeziceps* (BARRANDE, 1846). SD CHLUPÁČ 1977.

cuneifer, *Mesospheniscus*

HAWLE and CORDA (1847, p. 46, pl. 3, fig. 22), im Schiefer von Skrey.

Syn. *Battus cuneifer* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Agnostus integer*, Beyrich, 1845.

Lectotype: (SD ŠNAJDR 1958), complete meraspid specimen (degree O, pygidium slightly displaced); preserved as internal mould in shale. Vinice Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 19523, original label. Figured by ŠNAJDR 1958, pl. 3, fig. 30.

Specific designation: *Peronopsis cuneifera* (BARRANDE, 1846).

curta, *Eccoptochile*

Pl. 8, fig. 7.

HAWLE and CORDA (1847, p. 131), im Schiefer von Pták.

BARRANDE (1852) referred this species to the synonymy of *Cheirurus claviger* Beyrich; he mentioned one juvenile specimen.

Holotype: (by monotypy), compressed juvenile pygidium (internal mould in shale) with partly exfoliated doublure. Vinice Formation, Beroun area (Pták Mt.). NM L 5266, no original label; the rock bears the symbols in ink "H" and "*Curta*".

Specific designation: *Eccoptochile (E.) perlata* (HAWLE et CORDA, 1847). SD PŘIBYL in HORNÝ and BASTL 1970.

cyclurus, *Nileus*

Pl. 4, fig. 7.

HAWLE and CORDA (1847, p. 52), Kalk von St. Johann.

BARRANDE (1852) included this species in the synonymy of *Iliaenus Bouchardi* Barrande, 1846.

Neotype: (herein), pygidium with exoskeleton, preserved in bioclastic limestone. Liteň Formation (high), Lištice near Beroun. NM L 3677, no original label, no symbols in ink.

Remarks: ŠNAJDR (1957) has mentioned several syntypes (originally labelled cranidia) and chosen the lectotype — cranidium NM Br 479/65. These specimens have not been discovered in the National Museum; they seem to have been lost — no mention of them was given even by HORNÝ and BASTL (1970). Neotype is therefore erected — pygidium from the typical locality. It comes from a box with label — *Nileus cyclurus* Hawle et Corda (but originally labelled neither by Hawle nor Barrande).

Specific designation: *Bumastus bouchardi* (BARRANDE, 1846).

declinata, *Calymene*

Pl. 8, fig. 9.

HAWLE and CORDA (1847, p. 87), im glimmerhaltigem Schiefer bei Beraun.

BARRANDE (1852) designated this species as *Calymene declinata* Corda.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), incomplete compressed cranidium preserved as internal mould in shale. Králův Dvůr Formation, Beroun area (exact locality unknown). NM L 19765, original label.

Occurrence: Kralodvorian, Králův Dvůr Formation, lower layers.

Specific designation: *Flexicalymene declinata* (HAWLE et CORDA, 1847).

declive, Xiphonium

HAWLE and CORDA (1847, p. 71), im rothen Kalk von Mniénjan.

BARRANDE (1852) placed this species in the synonymy of *Proetus complanatus*

Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete pygidium preserved with part of exoskeleton in limestone. Suchomasty Limestone, Měňany (exact locality unknown). NM L 18302, original label. Figured by ŠNAJDR 1980, pl.42, fig.16.

Remarks: Two syntypes are conspecific with *Unguliproetus unguoides unguoides* (BARRANDE).

Specific designation: *Buchiproetus complanatus* (BARRANDE, 1846) (partim).

decorus, Phacops

HAWLE and CORDA (1847, p. 105), im dunkelgrauen Kalk von Hostjm.

BARRANDE (1852) placed this species in the synonymy of *Phacops Sternbergi* Corda.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), 'damaged' en-rolled specimen (internal mould with part of exoskeleton) preserved in limestone. Zlíchov Limestone, Hostím. NM L 19912, original label.

Occurrence: Zlichovian, Zlíchov Limestone.

Specific designation: *Reedops decorus* (HAWLE et CORDA, 1847) (SD CHLUPÁČ 1977).

delphinocephalus, Agraulos

Pl. 3, fig. 9.

HAWLE and CORDA (1847, p. 27, pl. 2, fig. 13). im Schiefer von Skrey.

BARRANDE (1852) designated this species as „forme longue“ of *Arionellus ceticephalus* Barrande, 1846.

Lectotype: (herein), nearly complete specimen without left librigena; internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 17653, original label and unidentifiable name in ink on the rock.

Remarks: BARRANDE (1852) mentioned several specimens as coming from Hawle's collection. Only one syntype (lectotype) has been found in the collections of National Museum.

Specific designation: *Agraulos ceticephalus* (BARRANDE, 1846).

Dormitzeri, Paradoxides

HAWLE and CORDA (1847, p. 31), Schiefer von Skrey.

BARRANDE (1852) declared this species as synonymous with the species *Paradoxides spinosus* Boeck.

Lectotype: (herein), complete specimen, internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice. NM ĀC 191, original label. Figured by HORNÝ and BASTL 1970, pl. 2, fig. 3.

Remarks: The part of Hawle's collection obtained by Corda for Bohemian Museum (4th July, 1847) included two specimens of *P. Dormitzeri* Hawle et Corda. ŠNAJDR (1958) placed this species in the synonymy of *Hydrocephalus carens* Barrande. HORNÝ and BASTL (1970) mentioned one syntype (holotype by monotypy = lectotype herein). As stated by Hawle and Corda, *Paradoxides Dormitzeri* is one of the largest trilobites (170—180 mm long).

Specific designation: *Hydrocephalus carens* Barrande, 1846.

Dormitzeri, Odontopleura

Pl. 13, fig. 5.

HAWLE and CORDA (1847, p. 150), Kalk von St. Johann.

BARRANDE (1852) designated this species as *Acidaspis Dormitzeri* Corda.

Lectotype: (herein), incomplete pygidium with exoskeleton, preserved in limestone. Liteň Formation, probably Monograptus flexilis Zone, together with *Diacalymene diademata*. NM L 15678, no original label; the rock bears symbol in ink "H 9". Auxiliary type of Barrande 1852, AD pl. 38, figs. 22—24.

Remarks: PRANTL and PŘIBYL (1949) considered the complete specimen figured by BARRANDE 1852, pl. 38, fig. 22, holotype by monotypy (= lectotype sensu PŘIBYL in HORNÝ and BASTL 1970). This specimen is not a syntype of Hawle and Corda. New lectotype chosen by the present author is one of Barrande's three auxiliary types reported by him to have come from Hawle's collection.

Occurrence: Liteň Formation, Monograptus flexilis Zone.

Specific designation: *Leonaspis dormitzeri* (HAWLE et CORDA, 1847) (SD PŘIBYL and VANĚK in HORNÝ and BASTL 1970).

dubia, Tetracnemis

HAWLE and CORDA (1847, p. 18), im Schiefer von Pták.

Remarks: BARRANDE (1852, p. 390) wrote: "C'est la tête d'une très-jeune *Dalmania*... Ce fragment se trouve dans la collection du Musée Bohême". So far, no syntype has been found. Nomen dubium.

dubius, Illaenus

HAWLE and CORDA (1847, p. 54), Schiefer von Beraun.

Holotype: (by monotypy), incomplete external mould of nuculid bivalve. Vinice Formation, Beroun area (exact locality unknown). NM L 19779, original label.

Remarks: No trilobite.

dubius, Proetus

HAWLE and CORDA (1847, p. 79), im Kalk von Konieprus.

BARRANDE (1852) placed this species in the synonymy of *Proetus neglectus* Barrande, 1852.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), pygidium with exoskeleton in limestone. Acanthopyge Limestone, Koněprusy (exact locality unknown). NM 345/67, original label; the rock bears the symbol in ink "H 27". Figured by ŠNAJDR 1980, pl. 49, fig. 22.

Remarks: *P. neglectus* Barrande is younger synonym of *P. dubius* Hawle et Corda, 1847. ŠNAJDR (1980) preferred, according to great frequency of Barrande's designation in literature, the name *neglectus* (Copenhagen Convention). The syntype NM L 14089 (pygidium with symbol in ink "H 27") is conspecific with *Eremiproetus dufresnoyi* (Hawle et Corda).

Specific designation: *Proetopeltis neglecta* (BARRANDE, 1852) [partim].

Dufresnoyi, Proetus

HAWLE and CORDA (1847, p. 74), bei Mniénjan.

BARRANDE (1852) placed this species in the synonymy of *Proetus complanatus* Barrande.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete cranidium with exoskeleton in limestone. Suchomasty Limestone, Měňany (exact locality unknown). NM L 18315, no original label; the rock bears the symbol in ink "H 7". Figured by ŠNAJDR 1980, pl. 36, fig. 3.

Occurrence: Dalejan, Suchomasty Limestone.

Specific designation: *Eremiproetus dufresnoyi dufresnoyi* (HAWLE et CORDA, 1847).

Dumortieri, Odontopleura

Pl. 4, fig. 8.

HAWLE and CORDA (1847, p. 154), Kalk von Koledník.

BARRANDE (1852) reported one pygidium designated by him as *Acidaspis Dumortieri* Corda.

Holotype: (by monotypy), incomplete pygidium with exoskeleton in limestone (together with *Cheirurus insignis*, *Decoroproetus* sp.). Liteň Formation, probably Monograptus flexilis Zone; locality unknown, probably Sv. Jan (not Koledník). NM L 5371, no original label; the rock bears inky symbol "H 19".

Specific designation: *Leonaspis dormitzeri* (HAWLE et CORDA, 1847) (SD BRUTON 1968).

Eichwaldii, Phacops

Pl. 5, fig. 7.

HAWLE and CORDA (1847, p. 99), im Quarzfels am Stadtberg bei Beraun.

BARRANDE (1852) placed this species in the synonymy of *Dalmania Phillipsi* Barrande, 1846.

Lectotype: (herein), cephalon preserved as internal mould in sandstone. Letná Formation, Beroun (exact locality unknown). NM L 17648, original label.

Remarks: BARRANDE (1852) mentioned two small cephalons as coming from Hawle's collection (= lectotype and syntype cephalon NM

L 17649). The species *Kloucekia tutana* Přibyl et Vaněk, 1980 is a younger synonym.

Occurrence: Berounian, Letná Formation.

Specific designation: *Kloucekia eichwaldi* (HAWLE et CORDA, 1847) (ŠNAJDR 1982).

elegantula, Tetracnemis

Pl. 5, fig. 1.

HAWLE and CORDA (1847, p. 17, pl. 2, fig. 4), in der Grauwacke von Skrey. Syn. *Monadina distincta* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Sao hirsuta* Barrande, 1846.

Lectotype: (herein), complete meraspid specimen (degree 2) preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 3465, relics of original label and symbol in ink "H" and name "*Tetracn. eleg...*".

Specific designation: *Sao hirsuta* Barrande, 1846.

elegantulus, Proetus

HAWLE and CORDA (1847, p. 75), im Kalk von Suchomasty.

BARRANDE (1852) placed this species in the synonymy of *Proetus neglectus* Barrande, 1852.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), cranium with left librigena with exoskeleton. Acanthopyge Limestone, Suchomasty area (exact locality unknown). NM L 18316, original label; the rock bears inky symbol "H 13". Figured by ŠNAJDR 1980, pl. 49, fig. 17.

Remarks: This species is homonymic with *Proetus elegantulus* Lovén, 1846.

Specific designation: *Proetopeltis neglecta neglecta* (BARRANDE, 1852).

elegantulus, Trinucleus

HAWLE and CORDA (1847, p. 40), im Schiefer von Beraun.

BARRANDE (1852) placed this species in the synonymy of *Trinucleus ornatus* Sternberg.

Lectotype: (SD PŘIBYL and VANĚK 1969b), complete meraspid specimen (degree 5), external mould in shale. Vinice Formation, Beroun area (exact locality unknown). NM L 18307, original label. Figured by PŘIBYL and VANĚK 1969b, pl. 13, fig. 3.

Remarks: BARRANDE (1852) mentioned young specimens from the locality Winice. PŘIBYL and VANĚK (1969b) incorporated this species in the synonymy of *Marrolithus ornatus senftenbergi* (Hawle et Corda); HUGHES et al. (1975) declared species *T. elegantulus* as nomen dubium.

Specific designation: *Deanaspis senftenbergi* (HAWLE et CORDA, 1847).

elliptica, Diplorrhina

Pl. 5, fig. 5.

HAWLE and CORDA (1847, p. 48), im Schiefer von Skrey, selten.

BARRANDE (1852) placed this species in the synonymy of *Agnostus integer* Beyrich, 1845.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), displaced meraspid specimen (degree 1—1) — transitory pygidium with one thoracic segment; internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 4889, original label.

Specific designation: *Peronopsis cuneifera* (BARRANDE, 1846).

ellipticum, Phalacroma

Pl. 15, fig. 7.

HAWLE and CORDA (1847, p. 44), in der Grauwacke von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Agnostus bibullatus* Barrande, 1846.

Lectotype: (herein), complete meraspid specimen (degree 0—2) internal and external moulds in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 5016 (+), original label.

Remarks: Three originally labelled syntypes have been found (L 4866, L 5143, L 5016); Barrande mentioned one specimen.

Specific designation: *Phalacroma bibullatum* (BARRANDE, 1846).

emarginatum, Phalacroma

Pl. 5, fig. 18.

HAWLE and CORDA (1847, p. 44), im Schiefer von Skrey.

BARRANDE (1852) referred this species to the synonymy of *Agnostus nudus* Beyrich. He mentioned one specimen.

Holotype: (by monotypy), complete meraspid specimen (degree 0—2), preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 5107, original label.

Specific designation: *Phalagnostus nudus* (BEYRICH, 1845).

exasperatus, Phacops

Pl. 7, fig. 7.

HAWLE and CORDA (1847, pl. 102), Kalk Karlstein.

BARRANDE (1852) referred this species to the synonymy of *Phacops fecundus* Barrande, 1846.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL, 1970), cephalon preserved in limestone (internal mould with relics of exoskeleton). Zlíčoh Limestone, Karlštejn (exact locality unknown). NM L 19771, original label.

Remarks: CHLUPÁČ (1977) mentioned specific identity of *P. exasperatus* Hawle et Corda and *P. fecundus degener* Barrande, 1852. He kept — with regard to article 23b of IRZN — younger Barrande's designation.

Specific designation: *Phacops (Phacops) degener* Barrande, 1852.

Fischeri, Proetus

HAWLE and CORDA (1847, p. 74), im derben Kalk von St. Johann.

Syn. *Proetus venustus* Barrande, 1846.

BARRANDE (1852) placed this species in the synonymy of *Proetus sculptus* Barrande, 1846.

Remarks: ŠNAJDR (1980) declared this species as nomen dubium. So far, no syntype has been found. Nomen dubium.

flabellatus, *Corydocephalus*

HAWLE and CORDA (1847, p. 140, pl. 7, fig. 74), im grauen Kalke von St. Johann. Syn. *Lichas palmata* Barrande, 1846.

BARRANDE (1852) placed this species in the synonymy of *Lichas palmata* Barrande, 1846.

Lectotype: (SD VANĚK 1959), pygidium and eleven thoracic segments, exoskeleton preserved. Liteň Formation, probably *Monograptus flexilis* Zone, Svatý Jan pod Skalou. NM L 5216, no original label; the rock bears symbol in ink "H 1". Figured by VANĚK 1959, pl. 10, fig. 1.

Specific designation: *Trochurus speciosus* (BEYRICH, 1845).

Forchhammeri, *Proetus*

Pl. 4 fig. 4.

HAWLE and CORDA (1847, p. 78), im rothen Kalke von Mniénjan.

BARRANDE (1852) placed this species in the synonymy of *Proetus latens* Barrande, 1846.

Lectotype: (herein), incomplete pygidium with exoskeleton preserved in limestone (= holotype by monotypy in HORNÝ and BASTL 1970). Suchomasty Limestone, Měňany (exact locality unknown). NM L 18313, original label; the rock bears inky symbol "H 22".

Remarks: Two syntypes have been found: NM L 18313 (=lectotype), L 14038 (syntype in Vaněk's collection obtained by purchase for the Geological Survey, Prague. The rock bears symbols "H 22" and "JV 496").

Specific designation: *Tropidocoryphe latens* (BARRANDE, 1846).

formosus, *Polytomurus*

HAWLE and CORDA (1847, p. 37, pl. 3, fig. 16), im Thonschiefer von Beraun. Syn. *Dioné formosa* Barrande, 1846.

BARRANDE (1852) incorporated this species in the synonymy of *Dionide formosa* Barrande, 1846.

Remarks: This species is doubtful. No syntype has yet been found. *Nomen dubium*.

Friderici Augusti, *Dindymene*

Pl. 7 fig. 9; pl. 15, fig. 2.

HAWLE and CORDA (1847, p. 120, pl. 1, fig. 3), in der Grauwacke von Beraun.

BARRANDE (1852) designated this species as *Dindymene Friderici Augusti* Corda.

Lectotype: (herein), complete specimen (internal and external moulds in shale), designated by PŘIBYL in HORNÝ and BASTL 1970 as holotype by monotypy. Králův Dvůr Formation, Beroun area (exact locality unknown). NM L 16331. Figured by BARRANDE 1852, pl. 43, figs. 20—22. Refigured herein.

Remarks: The type specimen must be considered lectotype because several syntypes were available to HAWLE and CORDA (1847) and BARRANDE (1852).

Occurrence: Kralodvorian, Králův Dvůr Formation.

Specific designation: *Dindymene fridericiaugusti* Hawle et Corda, 1847.

frontalis, Proetus

HAWLE and CORDA (1847, p. 75), im weissen Kalk von Konieprus.
BARRANDE (1852) designated this species as *Proetus frontalis* Corda.

Neotype: (SD PŘIBYL in HORNÝ and BASTL 1970), complete specimen (+ —) preserved with exoskeleton in limestone. Koněprusy Limestone, Koněprusy (exact locality unknown). NM L 16634. Figured by BARRANDE 1872, pl. 2, figs. 8, 9. Refigured by ŠNAJDR 1980, pl. 27, fig. 12.

Remarks: No syntype of Hawle and Corda has yet been found.

Occurrence: Pragian, Koněprusy Limestone.

Specific designation: *Denemarkia frontalis frontalis* (HAWLE et CORDA, 1847).

furcifer, Bronteus (Dicranactis)

HAWLE and CORDA (1847, p. 61), im grauen Kalk von Kuchelbad (coll. Musei, not coll. Hawle).

BARRANDE (1852) designated this species as *Bronteus furcifer* Corda.

Holotype: (by monotypy), incomplete pygidium with partly exfoliated exoskeleton preserved in limestone (incorrectly designated as lectotype by ŠNAJDR 1960). Zlíchov Limestone, Praha (probably Praha Zlíchov). NM L 16487. Figured by BARRANDE (1852), pl. 48, figs. 36—38. Refigured by ŠNAJDR 1960, pl. 28, figs. 1, 2.

Remarks: Hawle and Corda described one pygidium only (coll. Musei); this specimen was later figured by BARRANDE (1852) and refigured by ŠNAJDR (1960). Species *S. furciferum* is known from Harz and Morocco (LÜTKE 1965, G. ALBERTI 1970).

Occurrence: Zlichovian; Zlíchov Limestone, Chýnvice Limestone, Daleje Shales.

Specific designation: *Scabriscutellum (Cavetia) furciferum* (HAWLE et CORDA, 1847).

Geinitziana, Odontopleura

Pl. 7, fig. 11.

HAWLE and CORDA (1847, p. 154), Kalk von Kolednik.

BARRANDE (1852) designated this species as *Acidaspis Geinitziana* Corda. He mentioned several syntypes.

Lectotype: (herein), incomplete cranidium preserved in bioclastic limestone (internal mould with relics of exoskeleton). Kopanina Formation, horizon with *Cromus beaumonti*. NM L 1855, no original label; the rock bears inky symbol "H 21".

Remarks: Seven syntypes are stored in the National Museum. PRANTL and PŘIBYL (1949) selected the lectotype — cranidium figured by BARRANDE 1852 on pl. 39, figs. 46, 47. PŘIBYL and VANĚK (1966) drew attention to the fact that this figure was drawn on the basis of three specimens; they designated as lectotype the cranidium figured by them on pl. 2, fig. 1. I wish to recall that no specimen figured by BARRANDE is syntype of Hawle and Corda.

Occurrence: Ludlovian, Kopanina Formation, horizon with *Cromus beaumonti*.

Specific designation: *Leonaspis (L.) geinitziana* (HAWLE et CORDA, 1847).

Germari, Odontopleura

Pl. 15, fig. 1.

HAWLE and CORDA (1847, p. 155), im Kalke von Kuchelbad, sehr selten.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis Hoernesii* Barrande, 1846. He mentioned one specimen.

H o l o t y p e: (by monotypy), incomplete cranidium — internal mould in decalcified limestone. Zlíčov Limestone, chapel coral horizon, Praha Hlubočepy. NM L 5360; the rock bears symbol in ink "H 26" and the label "Kuchelbad". Auxiliary type of Barrande 1852, AD pl. 38, fig. 30.

S p e c i f i c d e s i g n a t i o n: *Leonaspis* (L.) sp. ex gr. *Leonaspis* (L.) *hoernesii* (BARRANDE, 1846) (SD PŘIBYL in HORNÝ and BASTL 1970).

gibbosum, Phalacroma

Pl. 11, fig. 3.

HAWLE and CORDA (1847, p. 43), Skrey.

BARRANDE (1852) noted this species in the synonymy of *Agnostus nudus* Beyrich, 1845 (indeterminable fragment).

H o l o t y p e: (by monotypy), damaged meraspid stage (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 5164, original label.

R e m a r k s: Hawle and Corda reported cephalon only. BARRANDE (1852) mentioned one fragment, HORNÝ and BASTL (1970) one syntype (holotype). ŠNAJDR (1958) referred this species to the synonymy of *Phalagnostus nudus* (Beyrich).

S p e c i f i c d e s i g n a t i o n: indeterminable specimen (*Phalagnostus, Phalacroma*).

gigas, Bronteus (Dicranactis)

HAWLE and CORDA (1847, p. 59), Kalk von Konieprus.

BARRANDE (1852) noted this species in the synonymy of *Bronteus palifer* Beyrich, 1845.

L e c t o t y p e: (SD ŠNAJDR 1960), incomplete pygidium with exoskeleton in limestone. Probably Suchomasty Limestone, Koněprusy (exact locality unknown). NM L 11428, original label. Figured by ŠNAJDR 1960, pl. 36, fig. 13.

R e m a r k s: *Bronteus caelebs* Barrande is younger synonym of the species *Bronteus gigas* Hawle et Corda. As the species designation *B. gigas* has been omitted for more than 50 years, the younger, commonly used name *B. caelebs* is considered valid in accordance with IRZN. Of a large number of syntypes, only single specimen has been found by ŠNAJDR (1960) in the National Museum (= lectotype). This specimen has been later found in Vaněk's collection obtained by purchase for Geological Survey, Prague (inventory number JV 2919). The description and remarks made by Hawle and Corda indicate that specimens of the genus *Radto-scutellum* Šnajdr were also ranged by them to the species under consideration.

S p e c i f i c d e s i g n a t i o n: *Scabriscutellum caelebs caelebs* (BARRANDE, 1852) (partim).

glaberrimus, *Iliaenus*

Pl. 5, fig. 15.

HAWLE and CORDA (1847, p. 54), im Kalk von Koledník.

BARRANDE (1852) placed this species in the synonymy of *Bronteus viator* Barrande, 1852.

Holotype: (by monotypy), fragment of right anterolateral part of glabella. Vinařice Limestone, locality (?). NM L 19776, original label.

Remarks: The type locality stated by Hawle and Corda is doubtful. The specimen comes from Měňany or Koněprusy areas.

Specific designation: *Platyscutellum* sp.

glabra, *Acanthocnemis*

Pl. 15, fig. 3.

HAWLE and CORDA (1847, p. 20), im Schiefer von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Sao hirsuta* Barrande, 1846.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), complete meraspid specimen — degree 8 (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 3344, original label partly destroyed; the rock bears inky symbols "H" and "A. glabra".

Specific designation: *Sao hirsuta* Barrande, 1846.

glabra, *Conoparia*

Pl. 6, fig. 2.

HAWLE and CORDA (1847, p. 83), bei Branik.

BARRANDE (1852), incorporated this species in the synonymy of *Cyphaspis Burmeisteri*, Barrande.

Holotype: (by monotypy), incomplete cranidium preserved in limestone (exoskeleton partly exfoliated) together with *Prionopeltis* sp. and *Eremiproetus* sp. Kopanina Formation, horizon unknown, locality unknown. NM L 3678, no original label; the rock bears the inky symbol "H 9".

Remarks: Exact geographic provenance is unknown. HORNÝ and BASTL (1970) recorded the locality Koledník near Beroun.

Specific designation: *Otarion burmeisteri* (BARRANDE, 1846).

globifrons, *Chirurus*

Pl. 9, fig. 5.

HAWLE and CORDA (1847, p. 136), im Kalke von Koniéprus, sehr selten.

BARRANDE (1852) placed this species in the synonymy of *Cheirurus gibbus* Beyrich.

Lectotype: (herein), incomplete cranidium — internal mould with relics of exoskeleton. Koněprusy or Vinařice Limestone, Koněprusy (exact locality unknown). NM L 18347, no original label; the rock bears symbols in ink "H" and the name "globifrons".

Remarks: PRANTL (1948, pl. 2, fig. 1) designated the lectotype — incomplete cranidium (internal mould in limestone) from Vinařice Limestone. This specimen (NM L 19027 = ac. c. 29234) is not syntype of Hawle and Corda. The new lectotype selected by the present author is based on specimen coming from Hawle's collection.

Occurrence: Pragian; Dvorce-Prokop Limestone, Vinařice Limestone.

Specific designation: *Cheirurus (Crotalocephalina) globifrons globifrons* Hawle et Corda, 1847 (SD PŘIBYL in HORNÝ and BASTL 1970).

Goldfussii, Phacops

Pl. 13, fig. 4.

HAWLE and CORDA (1847, p. 97), Quarzfels am Stadtberg bei Beraun.

BARRANDE (1852) placed this species in the synonymy of *Dalmania socialis* Barrande, 1846.

Lectotype: (herein), pygidium of young specimen (internal mould in sandstone). Letná Formation, Beroun (exact locality unknown). NM L 17646, original label.

Remarks: Younger synonym *Eudolatites hastatus* Přibyl et Vaněk, 1972, is considered to be conspecific with the species *P. Goldfussii* Hawle et Corda, 1847.

Occurrence: Berounian, Letná Formation.

Specific designation: *Eudolatites goldfussi* (HAWLE et CORDA, 1847).

gracilis, Ellipsocephalus

HAWLE and CORDA (1847, p. 22, pl. 2, fig. 2), Schiefer von Ginetz gesellig mit *Ellipsocephalus ambiguus* Zenker.

BARRANDE (1852) placed this species in the synonymy of *Ellipsocephalus Hoffii* Schlotheim.

Remarks: ŠNAJDR (1958) mentioned one chirotype. So far no syntype has been found. Nomen dubium.

grandis, Placoparia

HAWLE and CORDA (1847, p. 129), im Quarzite vom Stadtberge bei Beraun.

BARRANDE (1852) designated this species as *Placoparia zippei* Corda (sic.).

Lectotype: (SD ŠNAJDR 1956), cranidium preserved as internal mould in sandstone. Letná Formation, Beroun (exact locality unknown). NM L 15174, no original label; the rock bears the symbol in ink "H". Figured by BARRANDE 1852 on pl. 29, fig. 30. Refigured by PRANTL and ŠNAJDR 1957 on pl. 1, fig. 7.

Occurrence: Berounian, Letná Formation.

Specific designation: *Placoparia (Hawleia) grandis* Hawle et Corda, 1847.

granulata, Conocoryphe

HAWLE and CORDA (1847, p. 24), im Schiefer von Skrey.

BARRANDE (1852) declared this species as synonymous with *Conocephalites Sulzeri* Schlotheim. He mentioned a few specimens.

Lectotype: (SD ŠNAJDR 1982), cranidium preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovi-(Pod hrůškou). NM L 17620, original label. Figured by ŠNAJDR (1982) on pl. 2, fig. 4.

Remarks: BARRANDE (1852) and RŮŽIČKA (1944) mentioned several syntypes of Hawle and Corda. ŠNAJDR (1982) designated new lectotype as the earlier choice was invalid.

Occurrence: Cambrian, Jince Formation, Eccaparadoxides pusillus Zone.

Specific designation: *Parabailiella granulata* (HAWLE et CORDA, 1847).

granulatum, *Pleuroctenium*

Pl. 15, fig. 5.

HAWLE and CORDA (1847, p. 117, pl. 6, fig. 63), in der Grauwacke von Skrey, häufig. BARRANDE (1852) placed this species in the synonymy of *Agnostus granulatus* Barrande 1846.

Lectotype: (herein), thorax with pygidium preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 5149, original label.

Specific designation: *Pleuroctenium granulatum* (BARRANDE, 1846).

granulosa, *Dicranopeltis*

HAWLE and CORDA (1847, p. 142), im Kalke von St. Johann, selten.

BARRANDE (1852) referred this species to the synonymy of *Lichas scabra* Beyrich, 1845.

Lectotype: (SD VANĚK 1959), incomplete pygidium with exoskeleton. Liteň Formation, high, Svatý Jan pod Skalou. NM L 17184, original label; the rock bears symbol in ink "H 2". Figured by VANĚK 1959, pl. 4, fig. 10 as *Dicranopeltis scabra propinqua* (Barrande).

Remarks: VANĚK (1959, pl. IV, fig. 1) figured one syntype of this species (NM L 18644) designated by him as lectotype of *Dicranopeltis aspera* Hawle et Corda; the rock bears symbol in ink "H 2" (= *Dicranopeltis granulosa* Hawle et Corda).

Specific designation: *Dicranopeltis scabra propinqua* (BARRANDE, 1846).

Haushoferii, *Odontopleura*

Pl. 6, fig. 4.

HAWLE and CORDA (1847, p. 151), im Kalke von St. Johann.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis Dufrenoyi* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), pygidium with exoskeleton in limestone, first ring damaged. Liteň Formation, probably Monograptus flexilis Zone, Sv. Jan pod Skalou. NM L 5370, no original label; the rock bears inky symbols "H", "12" and "Sct. Ywan".

Specific designation: *Odontopleura dufrenoyi* (BARRANDE, 1846).

Hausmanni, *Odontochile*

Pl. 2, fig. 7.

HAWLE and CORDA (1847, p. 93), in derben grauen Kalk von Prag.

Syn. *Asaphus Hausmani* Brongniart, *Phacops Reussii* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Dalmania Reussi* Barrande, 1846.

Lectotype: (herein), nearly complete pygidium in limestone (internal mould with relics of exoskeleton). Dvorce-Prokop Limestone, Praha (exact locality unknown). NM L 17636, original label; the rock bears the inky symbol "H 1".

Remarks: The syntypes of Hawle and Corda represent two separate species — *Odontochile reussi* (Barrande) (lectotype) and *O. hausmanni* (Brongniart). CHLUPÁČ in HORNÝ and BASTL (1970) designated the lectotype of *Odontochile Hausmanni* (BRONGNIART, 1822) — complete spe-

cimen figured by BARRANDE 1852 on pl. 24, fig. 1; this choice is invalid; the specimen must be considered neotype.

Specific designation: *Odontochile reussi* (BARRANDE, 1846) (partim).

Hector, *Prionopeltis*

HAWLE and CORDA (1847, p. 122), im Kalke von Koledník.

BARRANDE (1852) mentioned one pygidium designated by him as *Prionopeltis Archiaci* Barrande, 1846.

Lectotype: (herein), cranium with left librigena (exoskeleton corroded) in limestone designated by ŠNAJDR 1980 as holotype by monotypy. Kopanina Formation, horizon with *Prionopeltis archiaci*, Koledník (exact locality unknown). NM L 11622; original label; the rock has been minimized in size. The sample bears the Vaněk's inventory number 1164. Figured by ŠNAJDR 1980, pl. 24, fig. 15.

Remarks: Only one pygidium was described by HAWLE and CORDA (1847) in accordance with Barrande's statement of his existence. At present, only one originally labeled syntype is available, but it is an incomplete cephalon. It was obtained by purchase of Geological Survey, Prague, from J. Vaněk. The rock was reduced in size so that the pygidium seems to have been torn away and the sample bearing original label represents only an incomplete cephalon.

Specific designation: *Prionopeltis archiaci* (BARRANDE, 1846).

Herschelii, *Enneacnemis*

Pl. 5, fig. 17.

HAWLE and CORDA (1847, p. 19), Grauwakken von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Sao hirsuta* Barrande, 1846 („11e degré”).

Holotype: (by monotypy), complete meraspid specimen without librigenae (degree 4) preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 3350, original label destroyed; the rock bears symbols in ink "H" and name "*Enneacn. Herschelii*".

Specific designation: *Sao hirsuta* Barrande, 1846.

Hoernesii, *Trapelocera*

Pl. 9, fig. 2.

HAWLE and CORDA (1847, p. 159, pl. 7, fig. 79), aus dem rothen Kalke von Mniénjan, selten. Syn. *Odontopleura Hoernesii* Barrande, 1846.

BARRANDE (1852) designated this species as *Acidaspis vesiculosa* Beyrich, 1846.

Lectotype: (PŘIBYL in HORNÝ and BASTL 1970), cephalon preserved as internal mould with relics of exoskeleton. Suchomasty Limestone, Měňany (exact locality unknown). NM L 5377, no original label; the rock bears symbol in ink "H 4".

Specific designation: *Ceratocephala (C.) vesiculosa* (BEYRICH, 1846) (PŘIBYL in HORNÝ and BASTL 1970). Separate species. (ŠNAJDR herein).

horridus, *Phacops*

Pl. 9, fig. 1.

HAWLE and CORDA (1847, p. 103), im Kalk von Branik.

BARRANDE (1852) placed this species in the synonymy of *Phacops fecundus* Barrande. Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), damaged incomplete cephalon with partly preserved exoskeleton. Zlíchov Limestone, Praha (exact locality unknown, not Bráník). NM L 19778, original label.

Remarks: *Phacops fecundus degener* Barrande, 1852 is a younger synonym of *Phacops horridus* Hawle et Corda, 1847. CHLUPÁČ (1977) kept — with regard to article 23b of the IRZN — younger Barrande's designation.

Specific designation: *Phacops (P.) degener* Barrande, 1852 (SD CHLUPÁČ 1977).

Hoseri, Phacops

HAWLE and CORDA (1847, p. 104), im Kalke von Suchomasty.

BARRANDE (1852) placed this species in the synonymy of *Phacops breviceps* Barrande. Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), cephalon, internal mould with relics of exoskeleton. Acanthopyge Limestone, Suchomasty area (exact locality unknown). NM L 19814, original label; the rock bears symbol in ink "H 21". Figured by CHLUPÁČ 1977, pl. 20, figs. 1, 2.

Occurrence: Eifelian; Acanthopyge Limestone, Choteč Limestone.

Specific designation: *Phacops (Chotecops) hoseri* Hawle et Corda, 1847 (SD CHLUPÁČ 1977).

Hoseri, Odontopleura

Pl. 5, fig. 8.

HAWLE and CORDA (1847, p. 150), bei Khoda im Kalk.

BARRANDE (1852) mentioned two cranidia, designated by him as *Acidaspis mira*, 1846. Lectotype: (herein), incomplete cranidium with right librigena preserved with exoskeleton in limestone. Liteň Formation (high), Lištice. NM IT 714, no original label; the rock bears inky symbol "H 8".

Remarks: PRANTL and PŘIBYL (1949) considered the species *O. Hoseri* to be conspecific with *Miraspis mira* (Barrande). PRANTL and VANĚK in HORNÝ—PRANTL—VANĚK (1958) arrived at the conclusion that *O. Hoseri* Hawle et Corda and *O. crassicornis* Hawle et Corda are conspecific and that they represent independent subspecies *Miraspis mira crassicornis* (Hawle et Corda). "Chirotypes" mentioned by Prantl and Vaněk do not represent syntypes of Hawle and Corda.

Specific designation: *Taemaspis portlocki* (HAWLE et CORDA, 1847).

Humboldti, Selenopeltis

HAWLE and CORDA (1847, p. 35), im schwarzen Schiefer von Pták, sehr selten.

BARRANDE (1852) referred this species to the synonymy of *Acidaspis Buchi* Barrande, 1846.

Remarks: The part of Hawle's collection obtained by Corda for Bohemian Museum (4th July, 1847) included two specimens of *Selenopeltis Humboldti* Hawle et Corda. BARRANDE (1852) mentioned some fragments

designated by him as *Acidaspis Buchi* Barrande. ŠNAJDR (MS 1) declared this species as synonymous with the species *Selenopeltis inerme beyrichi* (HAWLE et CORDA, 1847). So far, no syntype has been found. Nomen dubium.

impar, *Odontopleura*

Pl. 11, fig. 7.

HAWLE and CORDA (1847, p. 157), im Kalke von Mniénjan, sehr selten.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis subterarmata* Barrande, 1846.

H o l o t y p e: (by monotypy), pygidium with exoskeleton preserved in limestone (both rhachis and principal spines broken off). Suchomasty Limestone, Měňany (exact locality unknown). NM L 5365, original label; the rock bears symbol in ink "H 33".

O c c u r r e n c e: Dalejan; Suchomasty Limestone.

S p e c i f i c d e s i g n a t i o n: *Koneprusia impar* (HAWLE et CORDA, 1847).

imperfecta, *Odontopleura*

HAWLE and CORDA (1847, p. 156), im Kalke von Konieprus.

R e m a r k s: HAWLE and CORDA unambiguously stated that only a single glabella of *O. imperfecta* was available, while Barrande (1852) reported the existence of two cephalic fragments. So far, no syntype has been found. BRUTON (1968) placed this species in the synonymy of *Ceratocephala vesiculosa* Beyrich, 1846. Nomen dubium.

inflatus, *Paradoxides*

HAWLE and CORDA (1847, p. 32), im Schiefer von Skrey.

BARRANDE (1852) designated this species as *Paradoxides inflatus* Corda.

L e c t o t y p e: (SD MAREK in HORNÝ and BASTL 1970), complete late meraspid stage with damaged pygidial part (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 12632, L 12631, original label destroyed. Figured by BARRANDE 1852 on pl. 13, figs. 16—18; refigured by ŠNAJDR 1958 on pl. 25, figs. 1, 2.

S p e c i f i c d e s i g n a t i o n: *Hydrocephalus carens* Barrande, 1846.

integra, *Peronopsis*

Pl. 5, fig. 14.

HAWLE and CORDA (1847, p. 115, pl. 6, fig. 62), in der Grauwacke bei Ginetz. Syn. *Battus integer* Beyrich.

BARRANDE (1852) placed this species in the synonymy of *Battus integer* Beyrich, 1845.

L e c t o t y p e: (herein), cephalon with damaged posterior glabellar lobe (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Jince (exact locality unknown). NM L 5105, original label.

R e m a r k s: Eight syntypes are known. The syntype NM L 4836 is conspecific with *Onymagnostus prokopi* Fatka et Kordule et Šnajdr, 1981.

S p e c i f i c d e s i g n a t i o n: *Peronopsis cuneifera* (BARRANDE, 1846).

interjecta, *Calymene*

Pl. 11, fig. 8.

HAWLE and CORDA (1847, p. 86), im grauen Kalke von Damily.

BARRANDE (1852) designated this species as *Calymene interjecta* Corda.

Neotype: (herein), damaged enrolled specimen preserved in limestone as internal mould with relics of exoskeleton. Dvorce-Prokop Limestone, Damil near Tetín. NM L 17691.

Remarks: The lectotype chosen by MAREK in HORNÝ and BASTL (1970) is an incomplete cranidium from the Loděnice Limestone. This approach is an incorrect one, simply because it disregards the specimen taken from the type locality and horizon. Therefore, the present author has chosen as a neotype the specimen from Barrande's earlier collections at Damil. No syntype of Hawle and Corda has been found.

Occurrence: Pragian; Dvorce-Prokop Limestone, Vinařice Limestone, Loděnice Limestone, Koněprusy Limestone (?).

Specific designation: *Calymene interjecta* (HAWLE et CORDA, 1847).

interjectus, *Corydocephalus*

HAWLE and CORDA (1847, p. 140), im Kalke von Khoda.

BARRANDE (1852) placed this species in the synonymy of *Lichas palmata* Barrande.

Lectotype: (PŘIBYL in HORNÝ and BASTL 1970), nearly complete cranidium with exoskeleton. Liteň Formation (high), Lištice. NM L 17214, no original label; the rock bears inky symbol "H 3". Figured by VANĚK 1959 on pl. 9, fig. 1.

Remarks: VANĚK (1959, pl. 10, fig. 4) selected an invalid lectotype (= no syntype of Hawle and Corda). PŘIBYL in HORNÝ and BASTL (1970), p. 180) designated as lectotype the incomplete cranidium marked by Barrande as coming from Hawle's collection and later figured by VANĚK.

Specific designation: *Trochurus speciosus* (Beyrich, 1845).

intermixtus, *Bronteus* (Holomeris)

HAWLE and CORDA (1847, p. 58), im Kalke von Konieprus.

BARRANDE (1852) placed this species in the synonymy of *Bronteus transversus* Corda.

Holotype: (by monotypy), incomplete pygidium with partly exfoliated exoskeleton, preserved in limestone. Koněprusy Limestone, Koněprusy (exact locality unknown). NM L 5273, original label. Figured by ŠNAJDR 1960 on pl. 35, fig. 14. as *Bojoscutellum paliferum paliferum* (Beyrich).

Occurrence: Pragian, Koněprusy Limestone.

Specific designation: *Radioscutellum intermixtum* (HAWLE et CORDA, 1847).

Koningkii, *Aulacopleura* (lapsus calami)

HAWLE and CORDA (1847, p. 85, pl. 5, fig. 48), im Kalke bei Kolednik, Hertnek, Jarow und am Koselberge bei Beraun. Syn. *Arethusa Koningkii* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Arethusina Konincki* Barrande.

Remarks: PRANTL and PŘIBYL (1950) incorporated this species in the synonymy of *Aulacopleura (A.) konincki konincki* (Barrande). No syntype has yet been found. Nomen dubium.

laevigatum, Phalacroma

Pl. 8, fig. 2.

HAWLE and CORDA (1847, p. 45), im Schiefer von Pták äusserst selten.

BARRANDE (1852) recorded one specimen („...est un exemplaire très-mutilé, Winice...“).

Holotype: (by monotypy), damaged complete specimen preserved as internal mould in shale; right part of thorax and cranidium broken off. Vinice Formation, Beroun (Pták Mt.). NM L 19833, original label.

Specific designation: *Cyclopyge* cf. *pachycephala* Hawle et Corda, 1847 (SD MAREK in HORNÝ and BASTL 1970).

Laportii, Odontopleura

Pl. 6, fig. 10.

HAWLE and CORDA (1847, p. 156), im Kalke von Mniénjan, selten.

BARRANDE (1852) designated this species as *Acidaspis Laportei* Corda.

Lectotype: (herein), incomplete damaged cranidium with exoskeleton preserved in limestone. Suchomasty Limestone, Měňany (exact locality unknown). NM L 1996, no original label; the rock bears symbol in ink "H 28".

Remarks: PRANTL and PŘIBYL (1949) selected the lectotype — cranidium figured by BARRANDE (1852, pl. 39, fig. 22). This specimen is no syntype of Hawle and Corda and therefore new lectotype has been erected.

Specific designation: *Isoprusia laportei* (HAWLE et CORDA, 1847).

laticauda, Phacops

Pl. 7, fig. 8.

HAWLE and CORDA (1847, p. 104), im Kalke von Konieprus.

BARRANDE (1852) placed this species in the synonymy of *Phacops intermedius* Barrande, 1846.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), incomplete large cranidium in limestone (internal mould). Vinařice Limestone, Koněprusy (exact locality unknown). NM L 19803, original label; the rock bears symbol in ink "H 22".

Specific designation: *Reedops intermedius* (BARRANDE, 1846).

laticauda, Odontochile

Pl. 13, fig. 6.

HAWLE and CORDA (1847, p. 95), im grauen Kalke von Prag. Syn. *Trilobites Hausmanni* Sternberg.

BARRANDE (1852) placed this species in the synonymy of *Dalmania Hausmanni* Brongniart and *D. rugosa* Corda.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL, 1970), incomplete cephalon with relics of six thoracic segments and with partly exfoliated exoskeleton; eyes broken off. Dvorce-Prokok Limestone, Praha (exact lo-

cality unknown). NM L 19802, original label; the rock bears inký symbol "H 8".

Specific designation: *Odontochile hausmanni* (BRONGNIART, 1822) (partim).

laticeps, *Illaeus*

Pl. 9, fig. 7.

HAWLE and CORDA (1847, p. 54), im Kalke bei Praskoles und Prag. BARRANDE (1852) placed this species in the synonymy of *Illaeus Panderi* Barrande, 1852.

Lectotype: [herein], incomplete cranidium preserved as internal mould in pelocarbonate together with *Dalmanitina* sp. Zahořany Formation, locality unknown. NM L 19789, original label.

Remarks: BARRANDE (1852) mentioned one cranidium. ŠNAJDR (1957) reported several syntypes designated by him as *Cekovia salteri* (Barrande); these syntypes have been probably lost. HORNÝ and BASTL (1970) reported one syntype (=holotype by monotypy); this specimen is identical with the lectotype of the present author.

Specific designation: *Stenopareia panderi* (BARRANDE, 1852).

latifrons, *Conocoryphe*

HAWLE and CORDA (1847, p. 24), im Schiefer von Ginetz.

BARRANDE (1852) declared this species as synonymous with *Conocephalites Sulzeri* Schlothheim.

Holotype: (by monotypy), cranidium preserved as internal mould in shale. Jince Formation, Paradoxides gracilis Zone, Jince (exact locality unknown). NM L 17850, original label. Figured by ŠNAJDR (1982) on pl. 1, fig. 2.

Specific designation: *Conocoryphe sulzeri sulzeri* (SCHLOT-HEIM, 1823).

latissima, *Alceste*

Pl. 7, fig. 2.

HAWLE and CORDA (1847, p. 67, pl. 4, fig. 31), im Grauwackenschiefer bei Beraun. BARRANDE (1852) placed this species in the synonymy of *Illaeus Hisingeri* Barrande, 1846.

Holotype: (by monotypy), complete meraspid specimen (degree 4—3 or 4—4); internal mould in shale. Králův Dvůr Formation, Beroun area (exact locality unknown). NM L 15172, no original label. Figured by BARRANDE 1852 on pl. 29, fig. 29 as *Illaeus Hisingeri* Barrande (coll. Hawle). Refigured in this paper.

Remarks: JAANUSSON (1954) and ŠNAJDR (1957) considered the species identity of *Illaeus Hisingeri* and *Alceste latissima* to be dubious.

Occurrence: Kralodvorian, Králův Dvůr Formation.

Specific designation: *Alceste latissima* Hawle et Corda, 1847.

latus, *Staurogmus*

HAWLE and CORDA (1847, p. 29), im Schiefer von Skrey, selten.

BARRANDE (1852) placed this species in the synonymy of *Sao hirsuta* Barrande, 1846.

Lectotype: [SD ŠNAJDR 1958], cephalon with part of thorax, internal

mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 19553, original label; the rock bears inky symbols "H" and "*Staurogmus latus*". Figured by ŠNAJDR 1958 on pl. 44, fig. 19.
Specific designation: *Sao hirsuta* Barrande, 1846.

latus, Paradoxides

Pl. 8, fig. 1.

HAWLE and CORDA (1847, p. 31, pl. 3, fig. 15), Schiefer von Ginetz. Syn. *Olenus latus* Zenker, *Paradoxides Linnei* Barrande.

BARRANDE (1852) referred this species to the synonymy of *Paradoxides spinosus* Boeck.

Lectotype: (herein), incomplete cephalon with 15 thoracic segments preserved as internal mould in shale. Jince Formation, Paradoxides gracilis Zone, Jince (exact locality unknown). NM L 17651, original label.

Remarks: Both the description and depiction given by Hawle and Corda are reminiscent of the species *Hydrocephalus minor* (Boeck), but the discovered syntype is conspecific with *Paradoxides gracilis* (Boeck).

Specific designation: *Paradoxides gracilis* (BOECK, 1827).

leiurus, Proetus

Pl. 3, fig. 11.

HAWLE and CORDA (1847, p. 75), im Kalk von Koledník.

BARRANDE (1852) placed this species in the synonymy of *Proetus venustus* Barrande, 1846.

Lectotype: (herein), complete specimen with damaged rhachis preserved in limestone. Kopanina Formation, horizon with Ananaspis fecunda, Koledník (exact locality unknown). NM L 11403, relic of original label; inventory number 7625 depicted by J. Vaněk.

Remarks: This species has not been mentioned by HORNÝ and BASTL (1970). ŠNAJDR (1980) considered the species *P. leiurus* to be a nomen dubium. In Vaněk's collection obtained by purchase for the Geological Survey, Prague an originally labelled syntype of Hawle and Corda has been found.

Specific designation: *Coniproetus (Ryckholtia) ryckholti* (BARRANDE, 1846).

leptodonta, Trapelocera

Pl. 9, fig. 4.

HAWLE and CORDA (1847, p. 160), im Kalke von Mniénjan.

BARRANDE (1852) noted this species in the synonymy of *Acidaspis vesiculosa* Beyrich, 1846.

Lectotype: (PŘIBYL in HORNÝ and BASTL 1970), damaged cephalon preserved in bioclastic limestone as internal mould with relics of exoskeleton. Suchomasty Limestone, Měňany (exact locality unknown). NM L 1814, original label and symbol in ink "5".

Specific designation: *Ceratocephala (C.) hoernesii* (HAWLE et CORDA, 1847).

Leuchtenbergii, Acanthopyge

Pl. 5, fig. 13.

HAWLE and CORDA (1847, p. 144, pl. 1, figs. 5—7), im weissen Kalke von Suchomast, selten.

BARRANDE (1852) placed this species in the synonymy of *Lichas Haueri* Barrande, 1846.

Lectotype: (herein), incomplete cranidium with exoskeleton (= holotype by monotypy in Horný and Bastl 1970). Acanthopyge Limestone, Koněprusy area (exact locality unknown). NM L 15148, no original label; the rock bears inky symbol "H 1". The sample has been minimalized in size (by Barrande?). Figured by BARRANDE 1852 on pl. 28, figs. 40, 41.

Remarks: The lectotype chosen by VANĚK (1959, pl. 5, fig. 3) is a syntype admitting no proof. HORNÝ and BASTL (1970, p. 192) mentioned one syntype (= holotype by monotypy).

Specific designation: *Acanthopyge haueri* (BARRANDE, 1846).

limbatus, Illaenus

Pl. 9, fig. 3.

HAWLE and CORDA (1847, p. 54), im Grauwakkenschiefer selten.

Lectotype: (herein), poorly preserved pygidium, internal mould in shale. Zahořany Formation, locality unknown. NM L 17635, original label.

Remarks: ŠNAJDR (1957, p. 130) mentioned pygidium with nine thoracic segments (not reported by HORNÝ and BASTL 1970, probably lost).

Specific designation: *Cekovia salteri* (BARRANDE, 1852).

Lindackeri, Odontopleura

Pl. 13, fig. 8.

HAWLE and CORDA (1847, p. 153), Kalk von Koledník.

BARRANDE (1852) referred this species to the synonymy of *Acidaspis Dormitzeri* Barrande, 1846.

Lectotype: (herein), pygidium with six thoracic segments in bioclastic limestone, external mould; identical with holotype by monotypy in HORNÝ and BASTL 1970. Kopanina Formation, boundary beds of horizons with *Ananaspis fecunda* and *Prionopeltis archiaci*, Koledník (exact locality unknown). NM L 5388, no original label; the rock bears symbol in ink "H 8".

Remarks: Second syntype NM L 1867 has been found.

Specific designation: *Leonaspis leonhardi* (BARRANDE, 1846).

lobulosus, Agraulos

HAWLE and CORDA (1847, p. 27), im Schiefer von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Arionellus ceticephalus* Barrande, 1846.

Holotype: (by monotypy), young holaspid specimen (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 19629, original label; the rock bears symbols in ink "H" and "*Agr. lobulosus*".

Specific designation: *Agraulos ceticephalus* (BARRANDE, 1846).

longulus, Proetus

HAWLE and CORDA (1847, p. 78), bei Koledník.

BARRANDE [1852] incorporated this species in the synonymy of *Phacops bulliceps* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL, 1970), pygidium preserved in limonitized limestone (internal mould with relics of exoskeleton). Kopanina Formation, horizon with *Cromus beaumonti*, Koledník (exact locality unknown). NM L 14307, no original label; the rock bears inky symbol "H 24". Figured by ŠNAJDR 1980, pl. 34, fig. 7.

Occurrence: Ludlovian, Kopanina Formation, horizon with *Cromus beaumonti*.

Specific designation: *Prantlia longula* (HAWLE et CORDA, 1847).

Lyellii, *Enneacnemis*

HAWLE and CORDA [1847, p. 19, pl. 2, fig. 6], im Schiefer von Skrey.

BARRANDE [1852] placed this species in the synonymy of *Sao hirsuta* Barrande, 1846 („7e—10e degrés“).

Remarks: Barrande mentioned one specimen in collection of the Bohemian Museum. No syntype has yet been found. Nomen dubium.

macrocephala, *Conoparia*

Pl. 9, fig. 6.

HAWLE and CORDA [1847, p. 82], im derben grauen Kalk von St. Johann.

BARRANDE [1852] declared this species as synonymous with the species *Cyphaspis barrandei* Corda.

Holotype: (by monotypy), incomplete cranidium in limestone, exoskeleton partly exfoliated. Dvorce-Prokop Limestone, Hostím area (?). NM L 19794, original label; the rock bears symbol in ink "H 3".

Specific designation: *Otarion (Cyphaspis) hydrocephalum barrandei* (HAWLE et CORDA, 1847) (SD PŘIBYL and VANĚK 1981).

macroptera, *Placoparia*

Pl. 5, fig. 12; pl. 7, fig. 12.

HAWLE and CORDA [1847, p. 129], Schiefer bei Beraun, sehr selten.

BARRANDE [1852] placed this species in the synonymy of *Cheirurus scuticauda* Barrande, 1846.

Lectotype: (herein), damaged incomplete pygidium preserved as internal mould in shale (= holotype by monotypy in HORNÝ and BASTL 1970). Vinice Formation, Beroun (exact locality unknown). NM L 18389, no original label; the rock bears inky symbol "H".

Remarks: The second syntype is represented by pygidium with relics of seven thoracic segments (NM L 17625, *Eccoptochile* sp.).

Specific designation: *Eccoptochile* sp.

mancus, *Proetus*

HAWLE and CORDA [1847, p. 78], bei Koledník.

BARRANDE [1852] incorporated this species in the synonymy of *Proetus Ryckholti* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), pygidium with exoskeleton preserved in limestone. Kopanina Formation, horizon with *Anaspis fecunda*, Koledník (exact locality unknown). NM L 18319, ori-

ginal label; the rock bears symbol in ink "H 25". Figured by ŠNAJDR 1980 on pl. 10, fig. 14.

Specific designation: *Coniproetus (Ryckholtia) ryckholti* (BARRANDE, 1846).

marginata, Cyclopyge

Pl. 8, fig. 5.

HAWLE and CORDA (1847, p. 65), in der glimmerigen Grauwacke von Beraun, selten. BARRANDE (1852) referred this species to the synonymy of *Aeglina rediviva* Barrande, 1846. He mentioned one pygidium.

H o l o t y p e : (by monotypy), incomplete pygidium preserved as internal mould in shale, incorrectly designated by MAREK 1961 as lectotype (non figured). Králův Dvůr Formation, Beroun area (exact locality unknown). NM L 19769, original label; the rock bears symbol in ink "H 3".

O c c u r r e n c e : Kralodvorian, Králův Dvůr Formation.

S p e c i f i c d e s i g n a t i o n : *Cyclopyge marginata* Hawle et Corda, 1847.

maximus, Phacops

HAWLE and CORDA (1847, p. 104), im Kalke von Koniéprus.

BARRANDE (1852) placed this species in the synonymy of *Phacops fecundus* Barrande.

L e c t o t y p e : (SD CHLUPÁČ in HORNÝ and BASTL 1970). damaged and corroded incomplete pygidium, internal mould with relics of exoskeleton. Suchomasty Limestone, Měňany (exact locality unknown). NM L 19804, original label. Figured by CHLUPÁČ 1977 on pl. 12, fig. 13.

R e m a r k s : *Phacops major* Barrande, 1852 is conspecific with *P. maximus* Hawle et Corda, 1847. CHLUPÁČ (1977) kept the younger designation of Barrande, as the older name *maximus* was not used for more than hundred years (Copenhagen, IRZN).

S p e c i f i c d e s i g n a t i o n : *Phacops (P.) major* Barrande, 1852 (SD CHLUPÁČ 1977).

megacephala, Cyclopyge

Pl. 2, fig. 5.

HAWLE and CORDA, (1847, p. 64, pl. 4, fig. 32), im Schiefer von Pták. Syn. *Egle rediviva* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Aeglina rediviva* Barrande, 1846.

L e c t o t y p e : (herein), compressed complete specimen (internal mould in shale). Vinice Formation, Beroun area (exact locality unknown). NM L 17692, no original label; the rock bears symbol in ink "H 1".

R e m a r k s : More than eight syntypes are known. MAREK in HORNÝ and BASTL (1970) selected as lectotype the specimen figured by BARRANDE 1852 on pl. 34, fig. 6 (NM L 15249 = syntype admitting no proof). In his explanation of pl. 34 Barrande did no mention of the specimen as coming from Hawle's collection. As a result, a new lectotype is chosen by the present author.

S p e c i f i c d e s i g n a t i o n : *Cyclopyge rediviva* (BARRANDE, 1846).

Memnon, Prionopeltis

HAWLE and CORDA (1847, p. 125), im Kalke von Damilly, sehr selten.
BARRANDE (1852) designated this species as *Proetus Memnon* Corda.

Holotype: (by monotypy), incomplete cranidium with exoskeleton. Dvorce-Prokop Limestone, Damilly near Tetín. NM L 18325, no original label; Barrande reported this specimen as coming from Hawle's collection. Figured by BARRANDE 1852 on pl. 17, figs. 11, 12; refigured by ŠNAJDR 1980 on pl. 19, fig. 1 and on pl. 63, fig. 2.

Occurrence: Pragian, Dvorce-Prokop Limestone.

Specific designation: *Tropicoryphe memnon memnon* (HAWLE et CORDA, 1847).

micropygus, Proetus

HAWLE and CORDA (1847, p. 78), im Kalke von Koledník.
BARRANDE (1852) designated this species as *Proetus micropygus* Corda.

Holotype: (by monotypy), pygidium with exoskeleton, preserved in limestone. Kopanina Formation, horizon with *Anaspis fecunda*, Koledník (exact locality unknown). NM L 14532, original label. Figured by ŠNAJDR 1980 on pl. 30, fig. 4.

Occurrence: Ludlovian, Kopanina Formation, horizon with *Anaspis fecunda*.

Specific designation: *Scharyia micropyga* (HAWLE et CORDA, 1847).

minima, Crithias

Pl. 5, fig. 4.

HAWLE and CORDA (1847, p. 17, pl. 2, fig. 3), in Grauwacke von Skrey. Syn. *Monadina omicron* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Sao hirsuta* Barrande, 1846.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), complete meraspid stage O (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 3294, original label, inky symbol "H" on the rock.

Specific designation: *Sao hirsuta* Barrande, 1846.

minor, Trinucleus

Pl. 15, fig. 8.

HAWLE and CORDA (1847, p. 41), Sandstein von Stadtberge bei Beraun.

BARRANDE (1852) placed this species in the synonymy of *Trinucleus Goldfussi* Barrande, 1846.

Lectotype: (SD PŘIBYL and VANĚK 1969b), damaged complete specimen preserved as internal mould in sandstone; designated by HORNÝ and BASTL 1970 as holotype by monotypy. Letná Formation, Beroun (exact locality unknown). NM L 18305, original label. Figured by PŘIBYL and VANĚK 1969b on pl. 8, fig. 2; refigured in this paper.

Specific designation: *Deanaspis goldfussi* (BARRANDE, 1846).

minutum, Pleuroctenium

HAWLE and CORDA (1847, p. 117), Grauwacke bei Skrey.

BARRANDE (1852) noted this species in the synonymy of *Agnostus granulatus* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1958), cephalon of meraspid specimen preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruřkou). NM L 19514, original label. Figured by ŠNAJDR 1958 on pl. 2, fig. 10.

Specific designation: *Pleuroctenium granulatum* (BARRANDE, 1846).

minutus, *Illaeus*

Pl. 6, fig. 5.

HAWLE and CORDA (1847, p. 55), Kalk von Khoda.

BARRANDE (1852) referred this species to the synonymy of *Illaeus Bouchardi* Barrande, 1846.

Lectotype: (herein), cranidium of young specimen with exoskeleton preserved in limestone. Liteř Formation (high), probably Liřtice. NM L 5275, original label; the rock bears name in ink "*Illaeus minutus*".

Remarks: BARRANDE (1852) reported several specimens. ŠNAJDR (1957, p. 239) mentioned one syntype (juvenile cranidium).

Specific designation: *Bumastus bouchardi* (BARRANDE, 1846).

misera, *Conoparia*

Pl. 6, fig. 1.

HAWLE and CORDA (1847, p. 82), im Kalk bei Kolednik.

BARRANDE (1852) placed this species in the synonymy of *Cyphaspis Burmeisteri* Barrande.

Lectotype: (herein), incomplete cranidium in limestone, exoskeleton partly exfoliated (= holotype by monotypy in HORNÝ and BASTL 1970). Kopanina Formation, horizon with *Cromus beaumonti*, Kolednik (exact locality unknown). NM L 19795, no original label; the rock bears inky symbol "H 4".

Remarks: The type specimen must be considered lectotype because both cranidium and pygidium (at least two syntypes) were available to Hawle and Corda.

Specific designation: *Otarion (O.) diffractum* Zenker, 1833.

Monas, *Diplorrhina*

Pl. 5, fig. 3.

HAWLE and CORDA (1847, p. 49), aus dem Schiefer von Skrey.

BARRANDE (1852) declared this species as synonymous with *Agnostus integer* Beyrich, 1845.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), (transitory ?) pygidium of juvenile specimen preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruřkou). NM L 5084, original label.

Specific designation: *Peronopsis cuneifera* (BARRANDE, 1846).

Montagnei, *Harpes*

Pl. 7, fig. 4.

HAWLE and CORDA (1847, p. 165), im weissen Kalke von Suchomast, selten.

BARRANDE (1852) designated this species as *Harpes Montagnei* Corda.

Lectotype: (herein), incomplete cephalon with exoskeleton. Acanthopyge Limestone, Koněprusy area (exact locality unknown). NM L 2996, no original label; the rock bears inky symbol "H".

Remarks: PRANTL and PŘIBYL (1954) selected as lectotype cephalon with partly preserved exoskeleton, figured by Barrande 1852 on pl. 9, figs. 25—27 (NM L 12603 = syntype of Hawle and Corda admitting no proof). Three syntypes of Hawle and Corda are known; new lectotype has been therefore selected by the present author. Specimen NM L 12609 — auxiliary type of Barrande 1852, AD pl. 9, figs. 25—27 — is also syntype of Hawle and Corda.

Occurrence: Eifelian; Acanthopyge Limestone, ? Choteč Limestone.

Specific designation: *Lioharpes (Fritchaspis) montagnei* (HAWLE et CORDA, 1847).

mucronatus, Proetus

HAWLE and CORDA (1847, p. 74). bei Mniénjan.

Remarks: No syntype has yet been discovered. Nomen dubium.

Murchisonii, Amphitryon

Pl. 15, fig. 4.

HAWLE and CORDA (1847, p. 113, pl. 6, fig. 58), im Schiefer bei Beraun, selten.

Syn. *Caphyra radians* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Caphyra radians* Barrande, 1846.

Holotype: (by monotypy), complete specimen preserved in shale as internal mould. Králův Dvůr Formation, Beroun area (exact locality unknown). NM L 16339, no original label; Barrande reported this specimen as coming from Hawle's collection. Figured by BARRANDE 1852 on pl. 43, figs. 33, 34 as *Caphyra radians* Barrande. Refigured herein.

Specific designation: *Amphitryon radians* (BARRANDE, 1846).

Muricatus, Staurogmus

Pl. 10, fig. 5, 6.

HAWLE and CORDA (1847, p. 28, pl. 3, fig. 14), Schiefer von Skrey. Syn. *Sao hirsuta* Barrande.

BARRANDE (1852) mentioned several syntypes designated by him as degree 20 of *Sao hirsuta* Barrande, 1846.

Lectotype: (herein), complete pathological specimen (internal mould in shale; right librigena damaged) identical with holotype by monotypy in HORNÝ and BASTL 1970. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 3250, no original label; the rock bears inky symbol "H" and name "*Staurogm. muricatus*".

Remarks: The type specimen must be considered lectotype because several syntypes were available to Hawle and Corda.

Specific designation: *Sao hirsuta* Barrande, 1846.

mutica, Conocoryphe

HAWLE and CORDA (1847, p. 24, 167), von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Conocephalites Sulzeri* Schlotheim.

Lectotype: (SD ŠNAJDR 1958, p. 185), sag. deformed pygidium preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 17851, original label; the rock bears the name "mutica" in ink. Figured by ŠNAJDR (1982), pl. 3, fig. 4.
Remarks: The lectotype chosen by MAREK in HORNÝ and BASTL (1970) is invalid (= incomplete cranidium NM L 19792). The remaining syntypes are conspecific with *Conocoryphe sulzeri atlanta* Šnajdr and *C. gerlinda* Šnajdr.

Occurrence: Jince Formation, Eccaparadoxides pusillus Zone.

Specific designation: *Ptychoparia mutica* (HAWLE et CORDA, 1847) [partim].

Neubergii, Herse

HAWLE and CORDA (1847, p. 19, pl. 1, fig. 10), Schiefer von Skrey.

BARRANDE (1852) designated this species as synonym of *Arionellus ceticephalus* Barrande. 1846.

Lectotype: (SD ŠNAJDR 1958), disarticulated meraspid specimen (degree 10) — thoracopygon and slightly displaced cranidium (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 12588, no original label, the rock has been minimalized in size. Auxiliary type of BARRANDE 1952, AD pl. 10, figs. 3a, b; refigured by ŠNAJDR 1958 on pl. 9, fig. 20.

Remarks: Lectotype of *Herse Neubergii* is conspecific with the species *Solenopleurina tyrovicensis* Růžička erected at a later date (see ŠNAJDR 1958), but some syntypes can be ranged to the species *Skreiaspis spinosa* (JAHN, 1895). As the species designation *Neubergii* has been omitted for more than 50 years, the younger, commonly used name *tyrovicensis* is considered valid in accordance with IRZN.

Occurrence: Middle Cambrian, Jince Formation, Eccaparadoxides pusillus Zone.

Specific designation: *Solenopleurina tyrovicensis* Růžička, 1938 [partim].

Neumanni, Odontopleura

Pl. 6, fig. 7.

HAWLE and CORDA (1847, p. 151), im Kalke am Kosel, selten.

BARRANDE (1852) reported fragments from Kosel and placed this species in the synonymy of *Acidaspis Prévosti* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), cranidium with exoskeleton, occipital spines broken off. Boundary beds of Liteň and Kopanina Formations (limestone with cephalopods and *Aulacopleura*), Kozel or environment of Lištice. NM L 1152, no original label; the rock bears relic of inky symbol "H 11" — the sample has been minimalized in size.

Remarks: Eight poorly preserved syntypes are known.

Species designation: *Odontopleura ovata* Emmrich, 1839 (SD PŘIBYL and PRANTL 1949). *Odontopleura prevosti neumanni* HAWLE et CORDA, 1847 (Šnajdr herein).

nudum, *Phalacroma*

Pl. 10, fig. 3.

HAWLE and CORDA (1847, p. 44), im Schiefer von Skrey. Syn. *Battus nudus* Beyrich. BARRANDE (1852) placed this species in the synonymy of *Agnostus nudus* Beyrich, 1845.

Lectotype: [herein], damaged complete specimen with partly exfoliated duplicature of pygidium (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 5106, original label.

Remarks: Barrande reported eleven syntypes; lectotype must be therefore stated.

Specific designation: *Phalagnostus nudus* (BEYRICH, 1845).

oblongus, *Bronteus* (*Dicranactis*)

HAWLE and CORDA (1847, p. 60), im rothem Kalk von Mniénjan.

BARRANDE (1852) designated this species as *Bronteus oblongus* Corda.

Lectotype: [herein], incomplete cephalon with exoskeleton. Suchomasty Limestone, Měňany (exact locality unknown). NM L 16447, no original label. Figured by BARRANDE 1852 on pl. 47, figs. 13, 15 as coming from Hawle's collection; refigured by ŠNAJDR 1960 on pl. 26, fig. 1.

Remarks: The lectotype erected by ŠNAJDR 1960 (pygidium figured by BARRANDE 1852, pl. 47, fig. 14) is invalid (= syntype admitting no proof).

Occurrence: Dalejaň, Suchomasty Limestone.

Specific designation: *Scabriscutellum oblongum* (HAWLE et CORDA, 1847).

obtusatus, *Chirurus*

Pl. 8, fig. 6.

HAWLE and CORDA (1847, p. 134), im Kalke von Kosel.

BARRANDE (1852) designated this species as *Cheirurus obtusatus* Corda.

Lectotype: [herein], damaged nearly complete specimen (cephalon displaced) preserved as internal mould with relics of exoskeleton. Liteň Formation [high], Berounka river valley near Liřtice (Kozel). NM L 15759, no original label, no symbol in ink. Figured by BARRANDE 1852 on pl. 41, fig. 16; reported as coming from Hawle's collection.

Remarks: PRANTL and VANĚK in HORNÝ—PRANTL—VANĚK (1958) erroneously designated as the lectotype incomplete pygidium with exoskeleton figured by BARRANDE 1852 on pl. 41, fig. 15 (NM L 15756, syntype admitting no proof). This invalid lectotype comes from the Kozel locality, not from Malá Chuchle, Vyskočilka (error in HORNÝ and BASTL 1970).

Occurrence: Wenlockian, Liteň Formation [high].

Specific designation: *Cheirurus* (*Ch.*) *obtusatus* Hawle et Corda, 1847.

oculatus, *Phacops*

HAWLE and CORDA (1847, p. 108), im Kalk von Koniéprus.

BARRANDE (1852) placed this species in the synonymy of *Phacops Boeckii* Corda.

Lectotype: [SD CHLUPÁČ in HORNÝ and BASTL 1970], incomplete

cephalon with exoskeleton. Vinařice Limestone, Koněprusy area (exact locality unknown). NM L 19816, original label. Figured by CHLUPÁČ 1977 on pl. 15, fig. 3.

Specific designation: *Cheirurus (Ch.) obtusatus* Hawle et Corda, 1847 (SD CHLUPÁČ 1977).

Orion, Diplorrhina

Pl. 10, fig. 2.

HAWLE and CORDA (1847, p. 47), in der Grauwakke von Skrey. Syn. *Battus Orion* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Agnostus integer* Beyrich 1845.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), complete specimen with damaged cephalon (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Skryje (probably Luh). NM L 4854, original label.

Remarks: HORNÝ and BASTL (1970) incorrectly reported Týřovice (Pod hrůškou) as type locality.

Specific designation: *Diplorrhina triplicata* Hawle et Corda, 1847.

ovalifrons, Proetus

HAWLE and CORDA (1847, p. 76), bei Koledník.

BARRANDE (1852) incorporated this species in the synonymy of *Proetus intermedius* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL, 1970), incomplete cranidium with exoskeleton. Kopanina Formation, horizon with *Ananaspis fecunda*, Koledník (exact locality unknown). NM L 18314, original label; the rock bears symbol in ink "H 15".

Remarks: Two syntypes are known. According to Hawle and Corda possibly conspecific with *Proetus intermedius* Barrande, 1846.

Occurrence: Ludlovian, Kopanina Formation, horizon with *Ananaspis fecunda*.

Specific designation: *Interproetus intermedius ovalifrons* (HAWLE et CORDA, 1847).

ovatum, Phalacroma

Pl. 3, fig. 4.

HAWLE and CORDA (1847, p. 44), im Thonschiefer von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Agnostus bibullatus* Barrande, 1846.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), pygidium of young specimen, internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 5093, original label.

Specific designation: *Phalacroma bibullatum* (BARRANDE, 1846).

ovoideus, Phacops

Pl. 9, fig. 8.

HAWLE and CORDA (1847, p. 98), im Thonschiefer von Pták.

BARRANDE [1852] placed this species in the synonymy of *Dalmania socialis* Barrande. Lectotype: {SD MAREK in HORNÝ and BASTL 1970}, incomplete cranidium of young specimen preserved in shale as external mould. Bohdalec Formation, Beroun area (?) —not Pták Mt.; NM L 19808, no original label; the rock bears symbol in ink "H".

Remarks: Eight syntypes are known from Bohdalec, Zahořany and Vinice Formations (shales) — Dalmanitina, Phacopidina.

Specific designation: *Sokhretia solitaria* (BARRANDE, 1846) (partim).

pachycephala, Cyclopyge

Pl. 3, fig. 8.

HAWLE and CORDA [1847, p. 64], Schiefer von Pták, sehr selten.

BARRANDE [1852] designated this species as *Aeglina pachycephala* Corda.

Lectotype: {SD MAREK 1961}, pygidium preserved as internal mould in shale. Vinice Formation, Beroun (exact locality unknown). NM L 19773, original label, relic of symbol in ink "H 2".

Occurrence: Berounian, Vinice Formation.

Specific designation: *Heterocyclopyge pachycephala* (HAWLE et CORDA, 1847) {SD MAREK 1961}.

paradoxum, Phlysiacium

Pl. 14, fig. 3.

HAWLE and CORDA [1847, p. 16, pl. 2, fig. 1], im Schiefer von Skrey.

BARRANDE [1852] placed this species in the synonymy of *Hydrocephalus carens* Barrande, 1846.

Lectotype: {SD MAREK in HORNÝ and BASTL 1970}, deformed incomplete meraspid stage (degree 0), internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 18387, no original label; the rock bears the symbols in ink "H" and "*Phlys. paradoxum*".

Specific designation: *Hydrocephalus carens* Barrande, 1846.

Paris, Prionopeltis

Pl. 14, figs. 4, 8.

HAWLE and CORDA [1847, p. 122], Kalk von Koledník.

BARRANDE [1852] mentioned two specimens and referred this species to *Proetus archiaci* Barrande, 1846.

Lectotype: (herein), damaged complete specimen with exoskeleton (telescoped exuvium). Kopanina Formation, horizon with *Prionopeltis archiaci*, Koledník (exact locality unknown). NM L 12184, no original label; the rock bears symbol in ink "H 3".

Remarks: ŠNAJDR (1980) considered this species nomen dubium. In the collection of Geological Survey, Prague two syntypes have been found (obtained by purchase from J. Vaněk), one of which is chosen as a lectotype.

Specific designation: *Prionopeltis archiaci* (BARRANDE, 1846).

Partschi, Goniacanthus

Pl. 14, fig. 7.

HAWLE and CORDA [1847, p. 18], im Schiefer von Skrey.

BARRANDE (1852) mentioned one specimen placed by him in the synonymy of *Sao hirsuta* Barrande, 1846.

Lectotype: [herein], complete specimen (meraspid stage 2 ?) preserved as internal mould in shale; identical with holotype by monotypy in HORNÝ and BASTL 1970. Jince Formation, Eccaparadoxides pusillus Zone, probably Týřovice. NM L 3469, no original label; the rock bears inky symbol "Partschi".

Remarks: The part of Hawle's collection obtained by Corda for Bohemian Museum (4th July, 1847) included two specimens of *Goniacanthus Partschi*.

Specific designation: *Sao hirsuta* Barrande, 1846.

parva, Dicranopeltis

Pl. 6, fig. 8.

HAWLE and CORDA (1847, p. 143), im Kalke von Koniéprus selten. Syn. *Lichas parva* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Lichas Haueri* Barrande, 1846.

Lectotype: [herein], incomplete cranidium, internal mould with relics of exoskeleton. Koněprusy Limestone, Koněprusy (exact locality unknown). NM L 16622, no original label; the rock bears symbol in ink "H 4".

Remarks: Geological Survey, Prague obtained by purchase from J. Vaněk the second syntype (incomplete cranidium NM L 11410).

Occurrence: Pragian, Koněprusy Limestone.

Specific designation: *Acanthopyge parva parva* (BARRANDE, 1846).

pentagonus, Phacops

Pl. 12, fig. 4.

HAWLE and CORDA (1847, p. 99), im glimmerreichen Grauwakkenschiefer von Praskoles und Prag.

BARRANDE (1852) placed this species in the synonymy of *Dalmania Phillipsi* Barrande, 1846.

Lectotype: [herein], incomplete pygidium preserved as internal mould in siltstone. Zahořany Formation, Praskolesy (?) or Praha (?), exact locality unknown. NM L 17649, original label.

Remarks: *Eudolatites sumptuosus* Přibyl et Vaněk, 1972 is a younger synonym of *E. pentagonus* (HAWLE et CORDA, 1847).

Occurrence: Berounian, Zahořany Formation.

Specific designation: *Eudolatites pentagonus* (HAWLE et CORDA, 1847).

perlata, Eccoptochile

Pl. 15, fig. 6.

HAWLE and CORDA (1847, p. 131), im Grauwakkenschiefer von Pták.

BARRANDE (1852) placed this species in the synonymy of *Cheirurus claviger* Beyrich, 1845.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), damaged complete specimen, internal mould in shale. Vinice Formation, Beroun area (exact locality unknown). NM L 19786, original label.

Occurrence: Berounian; Vinice and Zahořany Formations.
Specific designation: *Eccoptochile (E.) perlata* Hawle et Corda, 1847.

planicauda, Xiphogonium

HAWLE and CORDA (1847, p. 71), im rothem Kalke von Mniénjan.
BARRANDE (1852) declared this species as synonymous with *Proetus natator* Barrande, 1852.

Holotype: (by monotypy), pygidium with corroded exoskeleton. Suchomasty Limestone, Měňany (exact locality unknown). NM L 18301, original label; the rock bears inky symbol "H 3". Figured by ŠNAJDR 1980 on pl. 36, fig. 7.

Specific designation: *Eremiproetus dufresnoyi dufresnoyi* (HAWLE et CORDA, 1847).

planus, Bronteus (Holomeris)

HAWLE and CORDA (1847, p. 59), Kalk vom St. Johann.
BARRANDE (1852) designated this species as *Bronteus planus* Corda.

Neotype: (herein), complete specimen with partly exfoliated exoskeleton (internal and external moulds), identical with the lectotype in ŠNAJDR 1960. Liteň Formation, Monograptus flexilis Zone, Sedlec. NM L 16310. Auxiliary type of Barrande 1852 (AD pl. 42, figs. 34, 35). Figured by ŠNAJDR 1958 on pl. 1, fig. 7, and 1960, pl. 1, fig. 2.

Remarks: The lectotype selected by ŠNAJDR (1960) is no syntype of Hawle and Corda. So far, no syntype of Hawle and Corda has been found and the neotype is erected.

Occurrence: Wenlockian, Liteň Formation, Monograptus flexilis Zone.

Specific designation: *Planiscutellum planum* (HAWLE et CORDA, 1847).

platycephalus, Proetus

HAWLE and CORDA (1847, p. 77), im rothem Kalke von Mniénjan.
BARRANDE (1852) declared this species as synonymous with *Proetus unguoides* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), almost complete cranidium with exoskeleton. Suchomasty Limestone, Měňany (exact locality unknown). NML 18311, no original label; the rock bears inky symbol "H 17". Figured by ŠNAJDR 1980 on pl. 15, fig. 16.

Specific designation: *Unguliproetus unguoides unguoides* (BARRANDE, 1846).

Polydorus, Prionopeltis

HAWLE and CORDA (1847, p. 123, pl. 6, fig. 65), im Kalke von Koledník.
BARRANDE (1852) placed this species in the synonymy of *Proetus Archiaci* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), complete specimen with corroded exoskeleton, right librigena displaced. Kopanina Formation, Prionopeltis archiaci Horizon, Koledník (exact locality un-

known). NM L 19318, original label. Figured by ŠNAJDR 1980 on pl. 24, fig. 11.

Specific designation: *Prionopeltis archiaci* (BARRANDE, 1846).

Polymnestor, Prionopeltis

HAWLE and CORDA (1847, p. 123), im Kalke von Koledník.

BARRANDE (1852) placed this species in the synonymy of *Proetus Archiaci* Barrande, 1846; he mentioned several specimens.

Lectotype: (herein), asymmetrical pygidium with corroded exoskeleton (= holotype by monotypy in HORNÝ and BASTL 1970). Kopanina Formation, *Prionopeltis archiaci* Horizon, Koledník (exact locality unknown). NM L 18323, original label. Figured by ŠNAJDR 1980 on pl. 24, fig. 13.

Specific designation: *Prionopeltis archiaci* (BARRANDE, 1846).

porosus, Agraulos

HAWLE and CORDA (1847, p. 28), im Schiefer von Skrey sehr selten.

BARRANDE (1852) placed this species in the synonymy of *Arionellus ceticephalus* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1958), cranidium with damaged left fixigena, internal mould in shale. Jince Formation, *Eccaparadoxides pusillus* Zone, Týřovice (Pod hrůškou). NM L 19642, original label; the rock bears inky symbols "H" and "*Agr. porosus*". Figured by ŠNAJDR 1958 on pl. 37, fig. 24.

Remarks: Lectotype of *Agraulos porosus* is conspecific with *Skreiaspis spinosa* (JAHN, 1895) erected at a later date. As the species designation *porosus* has been omitted for more than 50 years, the younger, commonly used name *spinosa* is considered valid in accordance with IRZN.

Specific designation: *Skreiaspis spinosa* (JAHN, 1895).

Portlockii, Odontopleura

HAWLE and CORDA (1847, p. 155), sehr selten im Kalke von Khoda.

BARRANDE (1852) designated this species as *Acidaspis Portlocki* Corda.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete cranidium with left librigena, exoskeleton preserved. Liteň Formation (high), Lištice. NM L 15672; no original label, the rock bears the symbol in ink "H". Figured by BARRANDE 1852 on pl. 38, figs. 10, 11 as *Acidaspis Portlocki* Corda, coll. Hawle. Refigured by PRANTL and VANĚK 1958 on pl. 8, fig. 2 as holotype of *Odontopleura* (? *Kettneraspis*) *portlocki* H. et C.

Occurrence: Wenlockian, Liteň Formation (high).

Specific designation: *Taemaspis portlocki* (HAWLE et CORDA, 1847).

pragensis, Trinucleus

Pl 12, fig. 2.

HAWLE and CORDA (1847, p. 41), Kalk aus Prag.

BARRANDE (1852) mentioned one specimen thought by him to be conspecific with the species *Trinucleus Goldfussi* Barrande.

Holotype: (by monotypy), incomplete cephalon with exoskeleton (lower lamella partly exfoliated), preserved in dark sandstone. Letná Formation, Praha (probably Praha Letná or Bruska). NM L 18306, ČD 1387, no original label, no symbol in ink.

Remarks: Mention was made by BARRANDE (1852) of one specimen identified with the species *Trinucleus Goldfussi* Barrande, 1846. One syntype (holotype by monotypy) was reported by HORNÝ and BASTL 1970; Příbyl designated it as separate species. Barrande's statement is correct, since the holotype comes from darkgrey calcareous sandstone of the Letná Formation.

Specific designation: *Deanaspis goldfussi* (BARRANDE, 1846).

Priamus, Prionopeltis

HAWLE and CORDA (1847, p. 122), im Kalke von Koledník.

BARRANDE (1852) placed this species in the synonymy of *Proetus Archiaci* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1980), incomplete pygidium with exoskeleton. Kopanina Formation, Prionopeltis archiaci Horizon, Koledník (exact locality unknown). NM L 19817, original label; the rock bears inky symbol "H 1". Figured by ŠNAJDR 1980, pl. 24, fig. 8.

Specific designation: *Prionopeltis archiaci* (BARRANDE, 1846).

priscum, Phalacroma

HAWLE and CORDA (1847, p. 43), im Quarzite von Wesela selten.

Remarks: BARRANDE (1852) mentioned four specimens (syntypes) thought by him to be conspecific with *Orbicula obsoleta* Barrande. So far, no syntype has been found. Nomen dubium.

propinquus, Corydocephalus

HAWLE and CORDA (1847, p. 141), im grauen Kalke von Ivan.

BARRANDE (1852) referred this species to the synonymy of *Lichas palmata* Barrande (four specimens).

Lectotype: (SD VANĚK 1959), cranidium with exoskeleton. Liteň Formation, probably Monograptus flexilis Zone, Sv. Jan (?). NM L 17224, original label. Figured by VANĚK 1959 on pl. 11, fig. 3.

Specific designation: *Trochurus speciosus* Beyrich, 1845.

protractus, Phacops

HAWLE and CORDA (1847, p. 107), im Kalke von Koniéprus.

BARRANDE (1852) mentioned four specimens designated by him as *Phacops Bronni* Barrande, 1846.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), cephalon with exoskeleton. Vinařice Limestone, Koněprusy area (exact locality unknown). NM L 19810, original label. Figured by CHLUPÁČ 1977 on pl. 22, figs. 3, 4.

Specific designation: *Reedops bronni* (BARRANDE, 1846).

pulcher, Phanoptes

HAWLE and CORDA (1847, p. 17, pl. 1, fig. 2), in Grauwacke von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Hydrocephalus saturnoides* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1958), deformed young meraspid specimen (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 19539, no original label; the rock bears symbols in ink "H" and name "*Phanoptes pulcher*". Figured by ŠNAJDR 1958, pl. 20, fig. 3.

Specific designation: *Eccaparadoxides pusillus* (BARRANDE, 1846).

pulcher, Bronteus (Dicranactis)

HAWLE and CORDA (1847, p. 63), im grauen Kalke von Family.

BARRANDE (1852) included this species in the synonymy of *Bronteus Brongniarti* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1960), incomplete cranidium, internal mould with part of exoskeleton. Dvorce-Prokop Limestone, Damil near Tetín. NM L 5265, original label; the rock bears inky symbol "H 25". Figured by ŠNAJDR 1960, pl. 22, fig. 5.

Specific designation: *Paralejurus brongniarti brongniarti* (BARRANDE, 1846).

pulchra, Acanthopyge

HAWLE and CORDA (1847, p. 145), im Kalke von Herinek sehr selten.

BARRANDE (1852) mentioned one large pygidium designated by him as synonym of *Lichas palmata* Barrande, 1846.

Holotype: (by monotypy), incomplete large pygidium with exoskeleton. Liteň Formation (high), Liřtice. NM L 17220, original label; the rock bears the symbol in ink "H 2". Figured by VANĚK 1959 on pl. 9, fig. 9.

Specific designation: *Trochurus speciosus* Beyrich, 1845.

pulchra, Ptychoparia

HAWLE and CORDA (1847, p. 26), im Schiefer von Skrey. Syn. ? *Conocephalus Emmrichi* Barrande.

Remarks: BARRANDE (1852) listed two specimens and incorporated them in the synonymy of *Conocephalites striatus* Emmrich. RŮŽIČKA (1944) mentioned two syntypes thought by him to be conspecific with *Ptychoparia striata* Emmrich. No syntype has yet been discovered. Nomen dubium.

pulchrum, Pharostoma

Pl. 12, fig. 3.

HAWLE and CORDA (1847, p. 88, pl. 5, fig. 49), im Quarzfels von Wesela, Stadtberg bei Beraun, Praskoles. Syn. *Calymene pulchra* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Calymene pulchra* Barrande, 1846.

Lectotype: (herein), incomplete cranidium, internal mould in sand-

stone. Letná Formation, locality unknown (probably Beroun area). NM L 17657, original label.

Remarks: Two separate species have been involved under designation *Pharostoma pulchrum* Hawle et Corda: *Prionocheilus pulcher* (BARRANDE, 1846) from Zahořany Formation and *Prionocheilus mendax* (VANĚK, 1965) from Letná Formation.

Specific designation: *Prionocheilus mendax* (VANĚK, 1965) (partim).

pulchrum, Tetrapselium

Pl. 15, fig. 9.

HAWLE and CORDA (1847, p. 42, pl. 3, fig. 18), im Thonschiefer bei Beraun. BARRANDE (1852) placed this species in the synonymy of *Trinucleus ornatus* Sternberg.

Lectotype: (SD PŘIBYL and VANĚK 1969b), meraspid specimen without lower lamella, internal mould in shale. Vinice Formation, Beroun area (exact locality unknown). NM L 19832, no original label; the rock bears the symbol in ink „H“ and name “Tetr...”. Figured by PŘIBYL and VANĚK 1969b on pl. 13, fig. 4; refigured in this paper.

Remarks: HUGHES et al. (1975) declared this species as nomen dubium.

Specific designation: *Deanaspis senftenbergi* (HAWLE et CORDA, 1847).

punctata, Conocoryphe

HAWLE and CORDA (1847, p. 25), im Schiefer von Skrey, selten.

Remarks: BARRANDE (1852) quoted two cephalons as original syntypes, placing the species *punctata* in the synonymy of *Conocoryphe Sulzeri* Schlotheim. RŮŽIČKA (1944, p. 4) ranged the cranidium to *C. sulzeri*. ŠNAJDR (1982) considered the species *C. punctata* nomen dubium. No syntype has been disclosed by revising the National Museum repository. Nomen dubium.

pustulatus, Dicranogmus

Pl. 7, fig. 10.

HAWLE and CORDA (1847, p. 146, pl. 7, fig. 77), im Kalke von Koledník sehr selten. BARRANDE (1852) declared this species as synonymous with *Lichas simplex* Barrande, 1846.

Lectotype: (herein), incomplete cranidium preserved in bioclastic limestone together with *Bohemoharpes* sp. Kopanina Formation, horizon unknown, Koledník (exact locality unknown). NM L 11413, no original label.

Remarks: VANĚK (1959, pl. 1, fig. 4) selected the lectotype; HORNÝ and BASTL (1970, p. 283) stated that this specimen is not syntype of Hawle and Corda. In the collection obtained by purchase from J. Vaněk for Geological Survey, Prague one syntype has been found (= lectotype herein). The rock bears relic symbol in black ink “H”, number of Barrande in red ink and Vaněk's number 1126.

Specific designation: *Dicranogmus simplex* (BARRANDE, 1846).

quadratus, Phacops

Pl. 12, figs. 7, 8.

HAWLE and CORDA (1847, p. 99), im Thonschiefer bei Prag.

BARRANDE (1852) placed this species in the synonymy of *Dalmania solitaria* Barrande, 1846.

Holotype: (by monotypy), incomplete compressed cranidium, internal and external moulds in shale. Bohdalec Formation, Praha (probably Velká Chuchle). NM L 5395, L 5396, original label.

Occurrence: Berounian, Bohdalec Formation, pelitic facies.

Specific designation: *Phacopidina quadrata* (HAWLE et CORDA, 1847).

quadrinotatum, Phalacroma

Pl. 5, fig. 9.

HAWLE and CORDA (1847, p. 43), im Schiefer von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Agnosus bibullatus* Barrande, 1846.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), pygidium preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 5163, original label; the rock bears name in ink "*Ph. bibullatus*".

Specific designation: *Phalacroma bibullatum* (BARRANDE, 1846).

quinqueloba, Odontopleura

HAWLE and CORDA (1847, p. 156), im Kalke von Koniéprus selten.

Remarks: BARRANDE (1852) and PRANTL and PŘIBYL (1949) did not mention any syntype of this species. Prantl and Vaněk in HORNÝ—PRANTL—VANĚK (1958, p. 238) reidentified one pygidium from Liteň Formation near Loděnice, a specimen chosen by them as lectotype. Unfortunately, they did not provide a figure or an inventory number of their specimen. Furthermore, revision of the Museum collection failed to discover it. Their identification seems to be incorrect and invalid because Hawle and Corda described cephalon only. Nomen dubium.

rara, Plaesiacomia

Pl. 5, fig. 6.

HAWLE and CORDA (1847, p. 55, pl. 3, fig. 30), Quarzite bei Beraun.

BARRANDE (1852) designated this species as *Homaionotus rarus* Corda.

Neotype: (herein), damaged cranidium of young specimen preserved as internal mould in sandstone. Letná Formation, Beroun (exact locality unknown). NM L 15162, no original label, no symbol in ink. Figured by BARRANDE 1852 on pl. 29, figs. 21, 22 (not reported as coming from Hawle's collection).

Remarks: Neotype is identical with holotype by monotypy in HORNÝ and BASTL (1970).

Occurrence: Berounian, Letná Formation.

Specific designation: *Plaesiacomia rara* Hawle et Corda, 1847.

reclinatus, Phacops

Pl. 11, fig. 9.

HAWLE and CORDA (1847, p. 106), im Kalk bei Kuchelbad.

BARRANDE (1852) referred this species to the synonymy of *Phacops fecundus* Barrande.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), pygidium with ten thoracic segments; corroded internal mould. Dvorce-Prokop Limestone (Zlíchov Limestone ?), exact locality unknown. NM L 19815, original label.

Specific designation: *Phacops* sp. (SD CHLUPÁČ in HORNÝ and BASTL 1970).

Reichenbachii, Odontopleura

Pl. 10, fig. 7.

HAWLE and CORDA (1847, p. 151), im Kalke von St. Johann.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis Dufrenoyi* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), cranium with exoskeleton, occipital spines broken off. Liteň Formation (high), Sv. Jan pod Skalou. NM L 5380, no original label; the rock bears symbol in ink "H 10".

Specific designation: *Ivanopleura dufrenoyi* (BARRANDE, 1846).

reticulatus, Harpes

Pl. 7, fig. 5.

HAWLE and CORDA (1847, p. 164), im Kalke von Mniénjan.

BARRANDE (1852) designated this species as *Harpes reticulatus* Corda.

Lectotype: (SD PRANTL and PŘIBYL, 1954), incomplete cephalon with corroded exoskeleton. Suchomasty Limestone (?). NM L 12605, no original label, no symbol in ink. Figured by BARRANDE 1852 on pl. 9, figs. 20—22; refigured by PRANTL and PŘIBYL 1954 on pl. 8, fig. 6.

Remarks: The lectotype is a dubious specimen; stratigraphic provenance according to petrographical character of the sample ranges from Suchomasty to Acanthopyge Limestone. The rock bears no symbol of Hawle and Corda or Barrande.

Occurrence: Dalejan, Suchomasty Limestone (?).

Specific designation: *Harpes (Reticuloharpes) reticulatus* (HAWLE et CORDA, 1847) (SD PŘIBYL in HORNÝ and BASTL 1970).

Reussii, Proetus

HAWLE and CORDA (1847, p. 76), im Kalk von St. Johann.

BARRANDE (1852) incorporated this species in the synonymy of *Proetus decorus* Barrande.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), pygidium with exoskeleton in limestone. Kopanina Formation, horizon with *Ananaspis fecunda*, locality unknown (not Sv. Jan). NM L 18320, original label; the rock bears the symbol in ink "H 16". Figured by ŠNAJDR 1980, pl. 23, figs. 5, 6.

Occurrence: Ludlovian, Kopanina Formation, horizon with *Ananaspis fecunda*.

Specific designation: *Decoroproetus reussi reussi* (HAWLE et CORDA, 1847).

Rex, *Condylopyge*

Pl. 3, fig. 5.

HAWLE and CORDA (1847, p. 50, pl. 3, fig. 24), im Schiefer von Skrey häufig. Syn. *Battus Rex* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Agnostus rex* Barrande, 1846.

Lectotype: (herein), deformed pygidium, internal mould in shale (= holotype by monotypy in HORNÝ and BASTL 1970). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 5104, original label.

Specific designation: *Condylopyge rex* (BARRANDE, 1846).

rhabdophora, *Trapelocera*

Pl. 14, fig. 1.

HAWLE and CORDA (1847, p. 158), im Kalke von St. Johann; einigemal gefunden.

BARRANDE (1852) noted this species in the synonymy of *Acidaspis Verneuilli* Barrande, 1846.

Holotype: (by monotypy), damaged cephalon with exoskeleton. Kopana Formation (?) or Přídolí Formation (?), locality unknown (not Sv. Jan). NM L 5368, no original label; the rock bears inky symbol "H 1".

Specific designation: *Ceratocephala (C.) verneuilli* (BARRANDE, 1846).

rotundata, *Diplorrhina*

HAWLE and CORDA (1847, p. 47), im Schiefer von Skrey selten.

BARRANDE (1852) placed this species in the synonymy of *Agnostus integer* Beyrich, 1845.

Holotype: (by monotypy), damaged cephalon with first thoracic segment (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 5090, original label.

Specific designation: *Diplorrhina triplicata* Hawle et Corda, 1847.

rotundata, *Odontopleura*

Pl. 11, fig. 2.

HAWLE and CORDA (1847, p. 156), im Kalke von Mniénjan sehr selten.

BARRANDE (1852) noted this species in the synonymy of *Acidaspis Hoernesii* Barrande, 1846.

Holotype: (by monotypy), cephalon with partly preserved exoskeleton, eyes broken off. Suchomasty Limestone, Měňany (exact locality unknown). NM L 5361, original label; the rock bears the symbol in ink "H 30".

Specific designation: *Leonaspis (Grossia) cf. truncata* (HAWLE et CORDA, 1847) (SD PŘIBYL in HORNÝ and BASTL 1970).

rotundatus, *Selenoptychus*

Pl. 13, fig. 10.

HAWLE and CORDA (1847, p. 46, pl. 3, fig. 21), im Grauwakkenschiefer von Pták sehr selten.

BARRANDE (1852) noted this species in the synonymy of *Aeglina pachycephala* Corda. Lectotype: (SD MAREK in HORNÝ and BASTL 1970), damaged cranidium, internal mould in shale. V. nice Formation, neighbourhood of Beroun. NM L 18321, original label.

Specific designation: *Heterocyclopyge pachycephala* (HAWLE et CORDA, 1847) (SD MAREK 1961).

ruderalis, Harpes

HAWLE and CORDA (1847, p. 165), Kalk von Prag, äusserst selten.

BARRANDE (1852) referred this species to the synonymy of *Harpes venulosus* Corda. Holotype: (by monotypy), incomplete cranidium with exoskeleton. Lochkov Formation, Praha (exact locality unknown, probably Dvorce). NM L 6131, original label. Figured by PRANTL and PŘIBYL 1954 on pl. 4, fig. 4.

Occurrence: Lochkovian, Lochkov Formation.

Specific designation: *Lioharpes (L.) ruderalis* (HAWLE et CORDA, 1847).

ruderalis, Odontopleura

Pl. 11, figs. 5, 6.

HAWLE and CORDA (1847, p. 148), Kalk von Damil sehr selten.

BARRANDE (1852) reported one fragment; he designated this species as *Acidaspis ruderalis* Corda.

Holotype: (by monotypy), incomplete right librigena + incomplete ten thoracic segments (damaged probably complete specimen). Dvorce-Prokop Limestone, Damil near Tetín. NM L 15668, no original label; the sample has been minimalized in size. Figured by BARRANDE 1852 on pl. 37, figs. 32, 33 (not reported as coming from Hawle's collection).

Remarks: Holotype bears no symbols in ink of Hawle and Corda or Barrande; original label was destroyed (if present).

Specific designation: *Leonaspis (L.) ruderalis* (HAWLE et CORDA, 1847).

ruderalis, Phacops

Pl. 10, fig. 4.

HAWLE and CORDA (1847, p. 99), im Grauwakkenschiefer bei Prag.

BARRANDE (1852) placed this species in the synonymy of *Dalmania Phillipsi* Barrande, 1846.

Holotype: (by monotypy), incomplete cephalon, internal mould in shale. Králův Dvůr Formation, exact locality unknown; Praha ? Beroun area ? NM L 17658, original label.

Remarks: BARRANDE (1852) mentioned one unique specimen. The species *Kloucekia pachypa* Přibyl et Vaněk, 1980 is a younger synonym of *P. ruderalis* Hawle et Corda, 1847.

Occurrence: Kralodvorian, Králův Dvůr Formation.

Specific designation: *Kloucekia ruderalis* (HAWLE et CORDA, 1847).

rugosa, Conoparia

HAWLE and CORDA (1847, p. 82), im Kalk von Prag bei Branik.

Remarks: BARRANDE (1852) placed this species in the synonymy of *Cyphaspis Burmeisteri* Barrande. PRANTL and PŘIBYL (1950) and PŘIBYL and VANĚK (1981) incorporated this species in the synonymy of *Otarion (O.) diffractum* Zenker, 1833. So far, no syntype has been found. Nomen dubium.

rugosa, Odontochile

Pl. 11, fig. 4.

HAWLE and CORDA (1847, p. 94), Kalkstein bei Prag, auch bei Damily.

BARRANDE (1852) designated this species as *Dalmania rugosa* Corda.

Lectotype: (herein), incomplete cephalon preserved as internal mould in limestone. Dvorce-Prokop Limestone, exact locality unknown. NM L 18379, original label; the rock bears the symbol in ink "H 3".

Remarks: CHLUPÁČ in HORNÝ and BASTL (1970) selected the lectotype — complete specimen with partly exfoliated exoskeleton (NM L 15001) figured by BARRANDE 1852 on pl. 23, fig. 17. This specimen is not syntype of Hawle and Corda and therefore new lectotype has been chosen by the present author.

Occurrence: Pragian; Dvorce-Prokop, Vinařice and Loděnice Limestones.

Specific designation: *Odontochile rugosa* Hawle et Corda, 1847.

rugulosus, Paradoxides

Pl. 14, fig. 2.

HAWLE and CORDA (1847, p. 32), im Schiefer von Skrey.

BARRANDE (1852) designated this species as *Paradoxides rugulosus* Corda.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), incomplete thorax with pygidium of late meraspid stage (internal mould in shale). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 12639, no original label, no symbol in ink. Figured by BARRANDE 1852 on pl. 13, fig. 5 (designated as coming from Hawle's collection). Refigured by ŠNAJDR 1958 on pl. 22, fig. 7.

Specific designation: *Eccaparadoxides pusillus* (BARRANDE, 1846).

Salmii, Endogramma

HAWLE and CORDA (1847, p. 21, pl. 1, figs. 11, 12), in der Grauwakke von Skrey sehr selten.

BARRANDE (1852) declared this species as synonymous with *Sao hirsuta* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1958), deformed complete meraspid specimen (degree 10), internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 19569, relic of original label; the rock bears inky symbol "H" and name "*Endogr. Salmii*". Figured by ŠNAJDR 1958, pl. 44, fig. 7.

Specific designation: *Sao hirsuta* Barrande, 1846.

scabra, Dicranopeltis

Pl. 11, fig. 1.

HAWLE and CORDA (1847, p. 142, pl. 7, fig. 75), im Kalke von St. Johann. Syn. *Lichas scabra* Beyrich.

BARRANDE (1852) placed this species in the synonymy of *Lichas scabra* Beyrich, 1845.

Lectotype: (herein), thorax with pygidium, exoskeleton preserved. Liteň Formation, probably *Monograptus flexilis* Zone, Sv. Jan. NM L 17623, no original label; the rock bears the symbol in ink "H 1".

Remarks: Another syntype has been figured by BARRANDE 1852 on pl. 28, fig. 30 (symbol in ink "H 1"). :

Specific designation: *Dicranopeltis scabra scabra* (BEYRICH, 1845).

sculptum, Xiphogonium

HAWLE and CORDA (1847, p. 71), im Kalke von St. Johann. Syn. *Proetus sculptus* Barrande.

BARRANDE (1852) noted this species in the synonymy of *Proetus sculptus* Barrande, 1846.

Holotype: (by monotypy), damaged complete specimen with exoskeleton. Zlíchov Limestone, probably Hostím. NM L 19834, original label. Figured by ŠNAJDR 1980 on pl. 54, fig. 12.

Specific designation: *Sculptoproetus sculptus sculptus* (BARRANDE, 1846).

sculptus, Bronteus (Dicranactis)

HAWLE and CORDA (1847, p. 60), im weissen Kalke von Konieprus selten.

BARRANDE (1852) placed this species in the synonymy of *Bronteus angusticeps* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1960), incomplete pygidium with exoskeleton. Koněprusy Limestone (exact locality unknown). NM L 5271, original label, symbol in ink "H". Figured by ŠNAJDR 1960 on pl. 34, fig. 5.

Specific designation: *Bojoscutellum angusticeps* (BARRANDE, 1846).

sculptus, Harpes

Pl. 14, fig. 9.

HAWLE and CORDA (1847, p. 163), Kalk von Damily sehr selten.

BARRANDE (1852) referred this species to the synonymy of *Harpes ungula* Sternberg

Holotype: (by monotypy), incomplete cephalon with partly exfoliated exoskeleton, relics of three thoracic segments. Dvorce-Prokop Limestone, Damil near Tetín. NM L 19770, no original label, no symbol in ink. The sample has been reduced in size.

Remarks: BARRANDE (1852) and PRANTL and PŘIBYL (1954) placed this species in the synonymy of *Harpes ungula* (Sternberg). According to PRANTL and PŘIBYL (1954, p. 132) "... the species *H. sculptus* is established on two incomplete cephalons from the Koledník near Beroun." No of the mentioned syntypes has been found in the collections of National Museum.

Occurrence: Pragian, Dvorce-Prokop Limestone.

Specific designation: *Lioharpes (Fritchaspis) sculptus* (HAWLE et CORDA, 1847) (SD PŘIBYL in HORNÝ and BASTL 1970).

scutiforme, Phalacroma

Pl. 7, fig. 1.

HAWLE and CORDA [1847, p. 45, pl. 3, fig. 20], im Schiefer bei Skréy, gemein.
BARRANDE (1852) placed this species in the synonymy of *Agnostus nudus* Beyrich, 1845.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), tr deformed pygidium, internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 5111, original label.

Specific designation: *Phalagnostus nudus* (BEYRICH, 1845).

selenophora, Diplorrhina

Pl. 14, fig. 10.

HAWLE and CORDA [1847, p. 49], Schiefer von Skrey, sehr selten.

BARRANDE (1852) referred this species to the synonymy of *Agnostus integer* Beyrich, 1846.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), meraspid cranidium, internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 5141, original label.

Remarks: Hawle and Corda described cephalon; BARRANDE (1852) mentioned three specimens (two cephalons and one pygidium).

Specific designation: *Peronopsis cuneifera* (BARRANDE, 1846).

selenophora, Tetracnemis

HAWLE and CORDA [1847, p. 18], von Skrey sehr selten.

Remarks: BARRANDE (1852) placed this species in the synonymy of the species *Sao hirsuta* Barrande, 1846. So far, no syntype has been found in the collection of National Museum. Nomen dubium.

Senftenbergii, Trinucleus

Pl. 1, fig. 8.

HAWLE and CORDA [1847, p. 40, pl. 3, fig. 17], im Schiefer bei Beraun.

BARRANDE (1852) noted this species in the synonymy of *Trinucleus ornatus* Sternberg.

Lectotype: (SD PŘIBYL and VANĚK, 1969b), complete specimen without lower lamella of the fringe, internal mould in shale. Vinice Formation, Beroun area [exact locality unknown]. NM L 18304, original label. Figured by PŘIBYL and VANĚK 1969b on pl. 14, fig. 9.

Occurrence: Berounian, Vinice Formation.

Specific designation: *Deanaspis senftenbergi* (HAWLE et CORDA, 1847) (SD HUGHES et al. 1975).

Sieberi, Bronteus (Dicranactis)

HAWLE and CORDA [1847, p. 60], im weissen Kalke von Konieprus, sehr selten.

BARRANDE (1852) designated this species as *Bronteus Sieberi* Barrande (error!).

Lectotype: (SD ŠNAJDR 1960), pygidium with partly corroded exoskeleton and with partly exfoliated doublure. Koněprusy Limestone, Koněprusy [exact locality unknown]. NM L 16475, no original label; the rock bears inky symbol "H". Figured by BARRANDE 1852 on pl. 48, figs.

11, 12 (not reported as coming from Hawle's collection — sic ;). Refigured by ŠNAJDR 1960 on pl. 36, fig. 2.

Occurrence: Pragian, Koněprusy Limestone.

Specific designation: *Radioscutellum sieberi* (HAWLE et CORDA, 1847).

Sieberi, Phacops

Pl. 12, fig. 5.

HAWLE and CORDA (1847, p. 98), im Thonschiefer von Pták.

BARRANDE (1852) placed this species in the synonymy of *Dalmania socialis* Barrande.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), incomplete pygidium in siltstone. Zahořany Formation (?), exact locality unknown (Beroun area). NM L 5270, original label.

Remarks: Three syntypes represented by specimens of *Eudolatites* sp. and *Dalmanitina proaeva* (Emmrich) are known.

Specific designation: *Dalmanitina proaeva* (EMMRICH, 1839) [partim].

Sieberianum, Xiphogonium

HAWLE and CORDA (1847, p. 71, pl. 4, fig. 36), im grauen Kalke von Hostim.

BARRANDE (1852) placed this species in the synonymy of *Proetus Loveni* Barrande, 1846.

Holotype: (by monotypy), complete specimen with exoskeleton. Zlíčkov Limestone, Hostím. NM L 18303, original label. Figured by ŠNAJDR 1980 on pl. 52, fig. 1.

Specific designation: *Xiphogonium loveni* (BARRANDE, 1846).

Siemangii, Odontopleura

Pl. 12, fig. 1.

HAWLE and CORDA (1847, p. 147), im Kalke von St. Johann.

BARRANDE (1852) declared this species as synonymous with *Odontopleura Dufrénoyi* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), cranidium with exoskeleton. Liteň Formation (high) — probably *Monograptus flexilis* Zone, Sv. Jan. NM L 1673, no original label; the rock bears inky symbol "H 1".

Specific designation: *Odontopleura siemangi* HAWLE et CORDA, 1847.

signatus, Phacops

HAWLE and CORDA (1847, p. 106), Kalk von Koniéprus.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), cephalon preserved as internal mould with relics of exoskeleton. Suchomasty Limestone, Koněprusy (exact locality unknown). NM L 12988, no original label, no symbol in ink. Figured by BARRANDE 1852 on pl. 23, figs. 1, 2 (not reported as coming from Hawle's collection). Refigured by CHLUPÁČ 1977, pl. 28, figs. 1—3.

Remarks: The lectotype is dubious. The originally labelled syntype NM L 17694 comes from Acanthopyge Limestone.

Occurrence: Dalejan, Suchomasty Limestone.

Specific designation: *Signatops signatus* (HAWLE et CORDA, 1847) (SD CHLUPÁČ 1977).

simplex, Dicranopeltis

HAWLE and CORDA (1847, p. 143), bei Jarov im weissgrauen Kalk. Syn. *Lichas simplex* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Cyphaspis depressa* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete cranidium with exoskeleton. Liteň Formation (high), Beroun area (probably Lištice). NM 403/67, original label. Figured by ŠNAJDR 1980 on pl. 17, fig. 6.

Specific designation: *Cyphoproetus depressus depressus* (BARRANDE, 1846).

Sirius, Diplorrhina

Pl. 10, fig. 1.

HAWLE and CORDA (1847, p. 48, pl. 3, fig. 23), im Schiefer von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Agnostus integer* Beyrich, 1845.

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), displaced complete specimen, internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 4896, original label.

Specific designation: *Peronopsis cuneifera* (BARRANDE, 1846).

sparsus, Bronteus (Holomeris)

HAWLE and CORDA (1847, p. 58), im Kalke von Koledník.

BARRANDE (1852) referred this species to the synonymy of *Bronteus umbellifer* Beyrich, 1845.

Holotype: (by monotypy), incomplete pygidium with partly exfoliated exoskeleton. Lochkov Formation, probably Lochkov or Kosoř (not Koledník). NM L 5260, original label. Figured by ŠNAJDR (1960) on pl. 36, fig. 12.

Specific designation: *Spiniscutellum umbelliferum* (BEYRICH, 1845).

speciosa, Acanthogramma

Pl. 10, fig. 8.

HAWLE and CORDA (1847, p. 20, pl. 2, fig. 8), im Schiefer von Skrey.

BARRANDE (1852) incorporated this species in the synonymy of *Sao hirsuta* Barrande, 1846. He mentioned one specimen.

Holotype: (by monotypy), complete specimen preserved as internal mould (late meraspid stage). Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 3386, original label.

Specific designation: *Sao hirsuta* Barrande, 1846.

speciosa, Acanthopyge

HAWLE and CORDA (1847, p. 145), im Kalke von Herinek, selten.

BARRANDE (1852) mentioned one large pygidium and he incorporated this species in the synonymy of *Lichas palmata* Barrande, 1846.

Holotype: (by monotypy), incomplete pygidium with corroded exo-

skeleton. Lišeň Formation (high), Lištice. NM L 17213, original label; the rock bears inky symbol "H 3". Figured by VANĚK 1959 on pl. 8, fig. 10. Specific designation: *Trochurus speciosus* Beyrich, 1845.

speciosa, Dindymene

HAWLE and CORDA (1847, p. 121), Grauwakke von Beraun, selten.

Remarks: BARRANDE (1852) declared this species as synonymous with *Dindymene Friderici Augusti* Corda; he mentioned compressed cranidia. No syntype has yet been discovered. Nomen dubium.

speciosa, Microparia

Pl. 2, fig. 4.

HAWLE and CORDA (1847, p. 52, pl. 3, fig. 26), in Kugeln des Grauwakkenschiefers von Strassitz, sehr selten.

BARRANDE (1852) designated this species as *Aeglina speciosa* Corda.

Lectotype: (SD MAREK 1961), pygidium with first thoracic segment. This unfigured specimen NM 231/67 is not syntype of Hawle and Corda. Králův Dvůr Formation, Beroun area.

Remarks: BARRANDE (1852) incorrectly modified the zoological statement of *Microparia speciosa* by regarding it to be represented by specimens from Králův Dvůr Fm; this point of view has been followed by MAREK (1961). The syntype of Hawle and Corda — damaged complete specimen NM L 19787 preserved as internal and external moulds in silty nodule comes from Dobrotivá Formation, Strašice area (exact locality unknown). The rock bears a relic symbol in ink "M" (prof. Mühlwenzel?). It recalls the species *Microparia lusca* Marek, e. g., by the incurved interior margin of its doublure. A comparison of the species *Microparia lusca* and *M. speciosa* is beyond the scope of this work. According to great frequency of Barrande's designation in literature (i. e. *Microparia speciosa* Hawle et Corda as coming from Kralodvorian), commonly used name *speciosa* is considered valid for Kralodvorian specimens.

Occurrence: Kralodvorian, Králův Dvůr Fm.

Specific designation: *Microparia (M.) speciosa* Hawle et Corda, 1847.

speciosa, Thysanopeltis

HAWLE and CORDA (1847, p. 118, pl. 6, fig. 64), Trümmerkalk von Suchomast.

BARRANDE (1852) placed this species in the synonymy of *Bronteus thysanopeltis* Barrande, 1852.

Neotype: (SD ŠNAJDR 1960), pygidium with exoskeleton and partly exfoliated doublure. Acanthopyge Limestone, Koněprusy area (exact locality unknown). NM L 16445; no original label, no symbol in ink. Figured by BARRANDE 1852 on pl. 47, fig. 11 (not reported as coming from Hawle's collection). Refigured by ŠNAJDR 1960 on pl. 30, fig. 7.

Remarks: PRANTL (1950) selected the lectotype — pygidium NM ČF 683 figured by him on pl. 3, fig. 3. ŠNAJDR (1960) stated that this specimen is not syntype of Hawle and Corda.

Occurrence: Eifelian, Acanthopyge Limestone.

Specific designation: *Thysanopeltis speciosa* Hawle et Corda, 1847.

speciosus, *Polytomurus*

Pl. 5, fig. 10.

HAWLE and CORDA (1847, p. 37), im Schiefer von Beraun, selten.

BARRANDE (1852) noted this species in the synonymy of *Dionide formosa* Barrande, 1846.

Lectotype: (herein), incomplete deformed cranidium preserved as internal mould in shale. Králův Dvůr Formation, Beroun area (exact locality unknown). NM L 17656, original label.

Remarks: RAYMOND (1925) designated *P. speciosus* as a separate species from D5 (= Králův Dvůr Formation).

Occurrence: Kralodvorian, Králův Dvůr Formation.

Specific designation: *Dionide speciosa* (HAWLE et CORDA, 1847).

spinifera, *Odontochile*

Pl. 2, fig. 1.

HAWLE and CORDA (1847, p. 96), im Kalke von Prag, auch bei Damily und Lusce. Syn. *Phacops spinifer* Barrande.

BARRANDE (1852) included this species in the synonymy of *Dalmania spinifera* Barrande, 1846.

Lectotype: (herein), incomplete pygidium, internal mould in limestone. Zlíchov Limestone, locality unknown. NM L 17680, original label.

Specific designation: *Odontochile spinifera* (BARRANDE, 1846).

spuria, *Tetracnemis*

HAWLE and CORDA (1847, p. 17), von Skrey sehr selten.

Remarks: BARRANDE (1852) placed this species in the synonymy of *Sao hirsuta* Barrande, 1846; he mentioned one specimen. So far, no syn-type has been discovered. Nomen dubium.

Steenstrupi, *Odontopleura*

Pl. 13, fig. 11.

HAWLE and CORDA (1847, p. 152), im Kalke von Kolednik.

BARRANDE (1852) noted this species in the synonymy of *Acidaspis Leonhardi* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete cephalon + four thoracic segments with exoskeleton. Kopanina Formation, horizon with *Ananaspis fecunda*. NM L 5292, no original label; the rock bears symbol in ink "H 14".

Specific designation: *Leonaspis (L.) leonhardi* (BARRANDE, 1846).

Stephani, *Selenopeltis*

HAWLE and CORDA (1847, p. 34, pl. 1, figs. 1, 2), im Quarzite von Wesela.

Syn. *Odontopleura inermis* Beyrich.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis Buchi* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), left part of isolated thoracic segment, internal mould in sandstone. Letná Formation, Veselá near Beroun. NM L 15661, no original label; the rock bears symbol

in ink "H". Auxiliary type of Barrande 1852, AD pl. 37, fig. 25. Figured by ŠNAJDR (MS 1) on pl. 4, fig. 2.

Specific designation: *Selenopeltis buchii buchii* (BARRANDE, 1846).

Sternbergi, Phacops

HAWLE and CORDA (1847, p. 107), im Kalk am Branik. Syn. *Trilobites macrophthalmus* Sternberg.

BARRANDE (1852) designated this species as *Phacops Sternbergi* Corda.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), damaged specimen with corroded exoskeleton. Dvorce-Prokop Limestone, Praha Bráník. NM L 19913, original label. Figured by CHLUPÁČ 1977 on pl. 23, figs. 1–3.

Occurrence: Pragian; Dvorce-Prokop and Řeporyje Limestones.

Specific designation: *Reedops Sternbergi* (HAWLE et CORDA, 1847) (SD CHLUPÁČ 1977).

striata, Ptychoparia

Pl. 3, fig. 2.

HAWLE and CORDA (1847, p. 25, pl. 2, fig. 11), im Schiefer von Ginetz.

Syn. *Conocephalus striatus* Emmrich.

BARRANDE (1852) designated this species as *Conocephalites striatus* Emmrich, 1839.

Holotype: (by monotypy), complete specimen, anterior part of cephalon damaged (internal mould in shale). Jince Formation, probably *Paradoxides gracilis* Zone. NM L 17634, original label.

Specific designation: *Ptychoparia striata* (EMMRICH, 1839).

striatus, Prionopeltis

HAWLE and CORDA (1847, p. 124), im Kalke von Koledník. Syn. *Phaeton striatus* Barrande.

BARRANDE (1852) included this species in the synonymy of *Proetus striatus* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1980), incomplete pygidium with exoskeleton. Přídolí Formation, Koledník (exact locality unknown). NM L 14079, no original label; the rock bears inky symbol "H 9" and number of J. Vaněk 1178. Figured by ŠNAJDR 1980 on pl. 26, fig. 9.

Remarks: Geological Survey, Prague obtained the lectotype by purchase from J. Vaněk. The sample was reduced in size, so that the original label seems to have been destroyed.

Specific designation: *Prionopeltis striata* (BARRANDE, 1846).

subdepressa, Odontochile

Pl. 7, fig. 6.

HAWLE and CORDA (1847, p. 95), im grauen Kalke von Prag. Syn. *Trilobites Hausmanni* Sternberg.

BARRANDE (1852) placed this species in the synonymy of *Dalmania auriculata* Dalman, 1826.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), nearly complete pygidium with exoskeleton. Zlíchov Limestone, Praha (exact locality unknown). NM L 19801, original label; the rock bears symbol in ink "H 7".

Occurrence: Zlichovian, Zlíchov Formation.

Specific designation: *Odontochile subdepressa* Hawle et Corda, 1847).

subtriangularis, *Bronteus* (Holomeris)

HAWLE and CORDA (1847, p. 59), im Kalke von St. Johann.

BARRANDE (1852) placed this species in the synonymy of *Bronteus Partschi* Barrande, 1846.

Lectotype: (SD ŠNAJDR 1960), incomplete cranidium with exoskeleton. Kopanina Formation, horizon unknown, Beroun area (exact locality unknown, not Sv. Jan). NM L 5272, original label, the rock bears inky symbol "H 9". Figured by ŠNAJDR 1960, pl. 4, fig. 11.

Specific designation: *Kosovopeltis partschi* (BARRANDE, 1846).

subtriangularis, *Illaeus*

Pl. 12, fig. 6.

HAWLE and CORDA (1847, p. 55, pl. 3, fig. 29), in der Grauwacke von Beraun.

BARRANDE (1852) incorporated this species in the synonymy of *Illaeus Wahlenbergianus* Barrande, 1852.

Lectotype: (herein), deformed cranidium with right librigena, internal mould in shale. Králův Dvůr Formation, Beroun (exact locality unknown). NM L 17662, original label.

Remarks: ŠNAJDR (1957) noted several syntypes thought by him to be conspecific with *Illaeus Wahlenbergianus* Barrande; one syntype has been found by the present author in the collection of the National Museum.

Specific designation: *Octillaenus hisingeri* (BARRANDE, 1846).

Sulzeri, *Conocoryphe*

HAWLE and CORDA (1847, p. 24, pl. 2, fig. 10), im Schiefer von Ginetz. Syn. *Trilobites Sulzeri* Schlotheim.

BARRANDE (1852) referred this species to the synonymy of *Conocephalites Sulzeri* Schlotheim, 1823.

Lectotype: (SD ŠNAJDR 1982), cranidium preserved as internal mould. Jince Formation, Paradoxides gracilis Zone, Jince (exact locality unknown). NM L 17852, original label. Figured by ŠNAJDR (1982) on pl. 2, fig. 2.

Remarks: ŠNAJDR (1982) stated that *Conocoryphe Sulzeri* Hawle et Corda and *Conocoryphe Sulzeri* (Schlotheim) represent two separate species.

Specific designation: *Conocoryphe sulzeri tetralina* Šnajdr, 1982.

tarda, *Arthrorhachis*

Pl. 7, fig. 3.

HAWLE and CORDA (1847, p. 115), pl. 6, fig. 60), in der Grauwacke von Beraun.

Syn. *Battus tardus* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Agnostus tardus* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete cep-

halon, internal mould in shale. Králův Dvůr Formation, Beroun area (exact locality unknown). NM L 5145, no original label; the rock bears inky symbol "H", the sample was minimalized in size.

Specific designation: *Arthrorhachis tarda* (BARRANDE, 1846).

tenuicornis, *Odontopleura*

Pl. 8, fig. 3.

HAWLE and CORDA (1847, p. 155), selten im Kalke von Chodaun.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis Prévosti* Barrande, 1846. He reported one specimen.

H o l o t y p e : (by monotypy), cranidium with exoskeleton. Liteň Formation (high), Lištice. NM L 1146, no original label; the rock bears symbol in ink "H 24".

R e m a r k s : The type locality reported by Hawle and Corda is dubious. Specific designation: *Odontopleura ovata* Emmrich, 1839. (SD PŘIBYL in HORNÝ and BASTL 1970). *Odontopleura prevosti tenuicornis* HAWLE et CORDA, 1847 (Šnajdr herein).

tenuispina, *Odontopleura*

Pl. 2, fig. 3.

HAWLE and CORDA (1847, p. 148), im Kalke von St. Johann.

BARRANDE (1852) declared this species as synonymous with *Acidaspis Hörnesi* Barrande, 1846.

H o l o t y p e : (by monotypy), complete specimen with damaged cephalon, exoskeleton preserved. Zlíchov Limestone. NM L 5357, no original label; the rock bears symbol in ink "H 3".

Specific designation: *Leonaspis (L.) hoernesii* (BARRANDE, 1846).

Thunii, *Selenosema*

HAWLE and CORDA (1847, p. 23, pl. 1, figs. 13, 14), in der Grauwacke von Skrey.

BARRANDE (1852) noted this species in the synonymy of *Sao hirsuta* Barrande, 1846.

L e c t o t y p e : (SD ŠNAJDR 1958), complete meraspid specimen (degree 14 with slightly displaced librigena), internal mould. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 19570, original label destroyed; the rock bears inky symbols "H" and name "Selen. Thuni". Figured by ŠNAJDR 1958 on pl. 44, fig. 11.

Specific designation: *Sao hirsuta* Barrande, 1846.

transversus, *Bronteus* (*Holomeris*)

HAWLE and CORDA (1847, p. 58), im weissen Kalke bei Konteprus.

BARRANDE (1852) designated this species as *Bronteus transversus* Corda.

L e c t o t y p e : (SD ŠNAJDR 1960), incomplete pygidium with corroded exoskeleton. Vinařice or Koněprusy Limestone, Koněprusy area (exact locality unknown). NM L 16459, no original label; the rock bears a relic of the name in ink "...ansversus Corda". Figured by BARRANDE 1852, pl. 47, figs. 34, 35. Refigured by ŠNAJDR 1960, pl. 32, figs. 10, 11.

O c c u r r e n c e : Pragian; Koněprusy and Vinařice Limestone.

Specific designation: *Bojoscutellum transversum* (HAWLE et CORDA, 1847).

triplicata, Diplorrhina

HAWLE and CORDA (1847, p. 47), in der Grauwakke von Skrey.

BARRANDE (1852) noted several specimens and placed this species in the synonymy of *Agnostus integer* Beyrich, 1845.

Lectotype: (SD ŠNAJDR 1958), complete specimen preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 19508, original label. Figured by ŠNAJDR 1958 on pl. 4, fig. 9.

Occurrence: Middle Cambrian, Jince Formation, Eccaparadoxides pusillus Zone.

Specific designation: *Diplorrhina triplicata* Hawle et Corda, 1847 (SD PEK and VANĚK 1971).

Troilus, Prionopeltis

HAWLE and CORDA (1847, p. 124), im Kalke von Koledník.

BARRANDE (1852) included this species in the synonymy of *Proetus Archiaci* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), poorly preserved disarticulated specimen with corroded exoskeleton. Přídolí Formation, Koledník (exact locality unknown). NM L 19819, original label. Figured by ŠNAJDR 1980 on pl. 26, fig. 1.

Remarks: PŘIBYL in HORNÝ and BASTL (1970) deliberately changed the original definition of this species by the choice of the lectotype. HAWLE and CORDA (1847) described pygidium with seven paired pleural spines; Přibyl's lectotype bears five ones.

Specific designation: *Prionopeltis striata* (BARRANDE, 1846).

truncata, Odontopleura

Pl. 16, figs. 7, 8.

HAWLE and CORDA (1847, p. 157), im Kalke von Mniénjan selten.

BARRANDE (1852) designated this species as *Acidaspis truncata* Corda.

Lectotype: (herein), incomplete cephalon with original exoskeleton preserved in limestone. Suchomasty Limestone, Měňany (exact locality unknown). NM L 17693, no original label; the rock bears symbol in ink "H 31".

Remarks: PRANTL and PŘIBYL (1949) selected lectotype — cephalon figured by BARRANDE (1852, pl. 39, figs. 12—14; NM L 5707) = syntype admitting no proof. This specimen was not reported by Barrande as coming from Hawle's collection. New lectotype erected by the present author has been chosen from Hawle and Corda's syntypes.

Occurrence: Dalejan, Suchomasty Limestone.

Specific designation: *Leonaspis (L.) truncata* (HAWLE et CORDA, 1847).

tuberculata, Odontochile

Pl. 16, fig. 1.

HAWLE and CORDA (1847, p. 95), im grauen Kalke von Prag.

BARRANDE (1852) placed this species in the synonymy of *Dalmania spinifera* Barrande, 1846.

Lectotype: (SD CHLUPÁČ in HORNÝ and BASTL 1970), pygidium of

young specimen with broken off pygidial spine. Zlíchov Limestone, Praha (exact locality unknown). NM L 19800, original label; the rock bears symbol in ink „H 9“.

Specific designation: *Odontochile spinifera* (BARRANDE, 1846) (SD CHLUPÁČ in HORNÝ and BASTL 1970).

umbonata, Diplorrhina

HAWLE and CORDA (1847, p. 48), in der Grauwacke von Skrey.

BARRANDE (1852) declared this species as synonymous with *Agnostus integer* Beyrich, 1845.

Lectotype: (SD ŠNAJDR 1957), deformed pygidium preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 19502, original label. Figured by ŠNAJDR 1957 on pl. 1, fig. 2 and by ŠNAJDR 1958 on pl. 4, fig. 16.

Occurrence: Middle Cambrian, Jince Formation, Eccaparadoxides pusillus Zone.

Specific designation: *Hypagnostus umbonatus* (HAWLE et CORDA, 1847).

venulosus, Harpes

Pl. 2, fig. 6.

HAWLE and CORDA (1847, p. 164), Kaik von Koniéprus.

BARRANDE (1852) designated this species as *Harpes venulosus* Corda.

Lectotype: (herein), cephalon with corroded exoskeleton. Koněprusy Limestone, Koněprusy (exact locality unknown). NM L 2981, original label.

Remarks: PRANTL and PŘIBYL (1954) selected the lectotype — specimen figured by BARRANDE (1852, pl. 8, figs. 11—13); this specimen was not reported by Barrande as coming from Hawle's collection. The rock bears no original label, no relics of inky symbols.

Occurrence: Pragian, Koněprusy Limestone.

Specific designation: *Lioharpes (L.) venulosus* (HAWLE et CORDA, 1847) (SD PŘIBYL in HORNÝ and BASTL, 1970).

Verneuillii, Trapelocera

Pl. 16, fig. 6.

HAWLE and CORDA (1847, p. 159), im Kalke von Kolednik, selten gut erhalten. Syn. *Odontopleura Verneuilli* Barrande.

BARRANDE (1852) placed this species in the synonymy of *Acidaspis Verneuilli* Barrande, 1846.

Lectotype: (herein), incomplete pygidium with exoskeleton. Kopanina Formation, probably horizon with *Prionopeltis archiaci*. NM L 17624, no original label; the rock bears inky symbol "H 2".

Remarks: Nine syntypes are known (incomplete pygidia and one damaged complete specimen).

Specific designation: *Ceratocephala (C.) verneuilli* (BARRANDE, 1846).

verrucifer, Phacops

Pl. 8, fig. 8.

HAWLE and CORDA (1847, p. 105), im Kalke von Kuchelbad.
No mention has been found in BARRANDE (1852).

Holotype: (by monotypy), incomplete cephalon in limestone, exoskeleton partly preserved. Dvorce-Prokop Limestone, Praha Malá Chuchle (exact locality unknown). NM L 17689, original label; the rock bears inky symbol "H".

Specific designation: *Odontochile hausmanni* (BRONGNIART, 1822).

verrucosa, Acanthocnemis

HAWLE and CORDA (1847, p. 20, pl. 2, fig. 7), im Schiefer von Skrey.
BARRANDE (1852) placed this species in the synonymy of *Sao hirsuta* Barrande, 1846. („12e degré“).

Lectotype: (SD ŠNAJDR 1958), complete meraspis 7 preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hruškou). NM L 19554, original label; the rock bears symbols in ink "H" and the name "*Acant. verrucosa*".

Specific designation: *Sao hirsuta* Barrande, 1846.

verrucosa, Conoparia

Pl. 15, fig. 10.

HAWLE and CORDA ([1847], p. 83), im kristallinischen Kalke von Koledník.
BARRANDE (1852) referred this species to the synonymy of *Cyphaspis Burmeisteri* Barrande, 1846.

Lectotype: (herein), incomplete cranidium with exoskeleton, = holotype by monotypy in HORNÝ and BASTL 1970. Kopanina Formation, *Ananaspis fecunda* or *Prionopeltis archiaci* Horizons, Koledník (exact locality unknown). NM L 3681, no original label; the rock bears symbol in ink "H 8".

Remarks: The type specimen must be considered lectotype because several specimens were available to Hawle and Corda.

Specific designation: *Otarion verrucosum* (HAWLE et CORDA, 1847).

verrucosus, Chirurus

Pl. 13, fig. 12.

HAWLE and CORDA (1847, p. 135), im rothem Kalke von Mniénjan, selten.
BARRANDE (1852) placed this species in the synonymy of *Cheirurus gibbus* Beyrich, 1845.

Holotype: (by monotypy), incomplete cranidium of young specimen, exoskeleton preserved. Suchomasty Limestone, Měňany (exact locality unknown). NM L 19791, no original label; the rock bears symbol in ink "H" and name "*verrucosus*".

Specific designation: *Cheirurus (Crotalocephalina) cruciatus* Hawle et Corda, 1847.

verrucosus, Corydocephalus

Pl. 16, fig. 2.

HAWLE and CORDA (1847, p. 140), im Kalke von St. Johann. Syn. *Lichas palmata* Barrande; *Trochurus speciosus* Beyrich.

BARRANDE (1852) incorporated this species in the synonymy of *Lichas palmata* Barrande, 1846.

Lectotype: (SD PŘIBYL in HORNÝ and BASTL 1970), incomplete cranidium with partly exfoliated exoskeleton. Liteň Formation; Svatý Jan pod Skalou. NM L 19768, original label.

Remarks: VANĚK (1959, pl. 11, fig. 2) erected and figured lectotype. The specimen is not syntype of Hawle and Corda and this choice is invalid.

Specific designation: *Trochurus speciosus* Beyrich, 1845.

verruculosa, Acanthogramma

Pl. 16, fig. 4.

HAWLE and CORDA (1847, p. 21), im Schiefer von Skrey.

BARRANDE (1852) placed this species in the synonymy of *Sao hirsuta* Barrande, 1846 („14e degré“).

Lectotype: (SD MAREK in HORNÝ and BASTL 1970), deformed partly enrolled specimen preserved as internal mould in shale. Jince Formation, Eccaparadoxides pusillus Zone, Týřovice (Pod hrůškou). NM L 3375, original label; the rock bears name in ink "*Acant. verruculosa*". Figured by BARRANDE 1852 on pl. 7, figs. 13a—b. Refigured herein.

Specific designation: *Sao hirsuta* Barrande, 1846.

vesiculosa, Trapelocera

HAWLE and CORDA (1847, p. 159), im Kalke von Koniéprus. Syn. *Odontopleura vesiculosa* Beyrich, 1846.

Remarks: BARRANDE (1852) placed this species in the synonymy of *Acidaspis vesiculosa* Beyrich, 1846. So far, no syntype has been found. Nomen dubium.

Zenkeri, Odontopleura

Pl. 14, figs. 5, 6.

HAWLE and CORDA (1847, p. 152), im Kalke von St. Johann.

BARRANDE (1852) referred this species to the synonymy of *Acidaspis Dormitzeri* Corda.

Holotype: (by monotypy), incomplete specimen (pygidium with eight thoracic segments, left librigena). Liteň Formation (high, probably Monograptus flexilis Zone), Svatý Jan pod Skalou (exact locality unknown). NM L 5359, no original label; the rock bears symbol in ink "H 13".

Specific designation: *Leonaspis (L.) dormitzeri* (HAWLE et CORDA, 1847) (SD PŘIBYL in HORNÝ and BASTL 1970).

Zenonis, Odontopleura

Pl. 16, fig. 3.

HAWLE and CORDA (1847, p. 153), im Kalke von Koledník.

BARRANDE (1852) referred this species to the synonymy of *Acidaspis Leonhardi* Barrande, 1846.

Holotype: (by monotypy), incomplete pygidium with exoskeleton together with *Coniproetus (Ryckholtia) ryckholti* (Barrande). Kopanina Formation, Ananaspis fecunda Horizon, Koledník (exact locality unknown). NM L 15643, no original label, no symbol in ink. Barrande mini-

malized the sample in size. Figured by BARRANDE 1852 on pl. 37, fig. 8. Refigured herein.

Occurrence: Ludlovian, Kopanina Formation, Ananaspis fecunda Horizon.

Specific designation: *Leonaspis (L.) zenonis* (HAWLE et CORDA, 1847).

Zippei, Placoparia

HAWLE and CORDA [1847, p. 129, pl. 5, fig. 71], von Strassic bei Zbirow in Grauwakkenkugeln sehr selten.

Remarks: BARRANDE [1852] incorporated this species in the synonymy of *Placoparia Zippei* Boeck. So far, no syntype has been found. Nomen dubium.

NOMINA DUBIA

aciculatus, Bronteus (Dicranactis)
acuminatus, Staurogmus
angusticeps, Aulacopleura
applanatum, Phalacroma
Archiaci, Prionopeltis
Beaumontii, Amphion
bohemicus, Paradoxides
bohemicus, Ampyx
Bronnii, Odontopleura
Buchii, Selenopeltis
ceticephalus, Agraulos
clavigera, Eccoptochile
dubia, Tetracnemis
Fischeri, Proetus
formosus, Polytomurus

gracilis, Ellipsocephalus
Humboldtii, Selenopeltis
imperfecta, Odontopleura
Koningkii, Aulacopleura
Lyellii, Enneacnemis
mucronatus, Proetus
pulchra, Ptychoparia
punctata, Conocoryphe
quinqueloba, Odontopleura
rugosa, Conoparia
selenophora, Tetracnemis
speciosa, Dindymene
spuria, Tetracnemis
vesiculosa, Trapelocera
Zippei, Placoparia

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MILAN ŠNAJDR

REVIZE TYPOVÉHO MATERIÁLU TRILOBITŮ

POPSANÝCH I. HAWLEM a A. J. C. CORDOU, 1847

Předmětem tohoto sdělení je kritická revize všeho dostupného dokladového materiálu k trilobitům popsaným HAWLEM a CORDOU (1847) jako nové druhy z českého paleozoika. Zvláštní pozornost je věnována výběru typových jedinců, jejich stratigrafickému a geografickému výskytu. Celkem bylo revidováno 274 druhů; z nich je třicet považováno za nomina dubia, protože se nepodařilo najít ani jediný syntyp. Práce navazuje na průkopnickou práci HORNÉHO a BASTLA (1970), kteří jako první souborně uvedli kritéria pro hodnocení věrohodnosti syntypů HAWLE a CORDY.

Jsou striktně rozlišeny pochybné syntypy od syntypů nepochybných, za něž jsou považovány:

1. Jedinci s přilepenými etiketami, které nesou jméno uvedené v Prodromu nebo dvě jména v případě synonymie s Barrandovým druhem.

2. Jedinci s přilepenými malými obdélníkovými etiketami s odstřiženými rohy. Nesou druhové jméno uvedené v Prodromu.

3. Jedinci výslovně citovaní BARRANDEM (1852) v textu nebo ve vysvětlivkách k tabulím (coll. Hawle).

4. Jedinci označení Barrandem různými symboly pomocí černé (vzácně červené) tuše přímo na hornině. Je to obvykle písmeno H nebo písmeno H s číslem, identickým s pořadovým číslem druhu v Prodromu. Někdy jsou symboly H + pořadové číslo kombinovány s druhovými nebo rodovými jmény napsanými tuší na hornině.

Pochybné syntypy zvolené různými revidujícími autory za lektotypy či holotypy jsou nahrazeny typovými jedinci vybranými z nepochybných syntypů Hawle a Cordy. V práci je rovněž uplatněn odstavec 23b z Mezinárodních pravidel zoologické nomenklatury: hluboce v literatuře vžitá Barrandova jména druhů stanovená v roce 1852 nejsou mechanicky nahrazena staršími jmény Hawle a Cordy, které mají teoreticky prioritní postavení.

Seznam revidovaných druhů je uspořádán abecedně podle druhových jmen. U jednotlivých druhů jsou vedle citace originálního popisu v Prodromu uvedeny: zoologické zařazení druhu podle BARRANDA (1852), základní data o typovém jedinci (holotyp, lektotyp, neotyp, způsob zachování, stratigrafický a geografický výskyt, inventární číslo sbírek Národního muzea, zachované identifikační znaky či symboly), taxonomické a nomenklatorické poznámky, stratigrafický výskyt platného druhu a konečně současné druhové a rodové zařazení.

EXPLANATION OF PLATES

Plate 1

- 1 *Illaenus asaphoides* Hawle et Corda, holotype, L 19785, x4.
- 2 *Calymene affinis* Hawle et Corda, lectotype, L 16353, x1.5.
- 3 *Calymene affinis* Hawle et Corda, syntype, L 17678, x2.
- 4 *Illaenus attenuatus* Hawle et Corda, lectotype, L 17639, x3.
- 5 *Trinucleus Barrandei* Hawle et Corda, lectotype, L 18309, x2.
- 6 *Eccoptochile aspera* Hawle et Corda, holotype, L 17621, x2.
- 7 *Cyphaspis Barrandii* Hawle et Corda, neotype, L 12833, x4.
- 8 *Trinucleus Senftenbergii* Hawle et Corda, lectotype, L 18304, x2.

Plate 2

- 1 *Odontochile spinifera* Hawle et Corda, lectotype, L 17680, x1.
- 2 *Odontochile cristata* Hawle et Corda, lectotype, L 19799, x1.
- 3 *Odontopleura tenuispina* Hawle et Corda, holotype, L 5357, x5.
- 4 *Microparia speciosa* Hawle et Corda, syntype, L 19787, x5.
- 5 *Cyclopyge megacephala* Hawle et Corda, lectotype, L 17692, x5..
- 6 *Harpes venulosus* Hawle et Corda, lectotype, L 2981, x1.5.
- 7 *Odontochile Hausmanni* Hawle et Corda, lectotype, L 17636, x1.

Plate 3

- 1 *Micropyge Bachofenii* Hawle et Corda, lectotype, L 19775, x10.
- 2 *Ptychoparia striata* Hawle et Corda, holotype, L 17634, x1.5.
- 3 *Odontopleura crassicornis* Hawle et Corda, holotype, L 3667, x4.
- 4 *Phalacroma ovatum* Hawle et Corda, lectotype, L 5093, x10.
- 5 *Condylopyge Rex* Hawle et Corda, lectotype, L 5104, x10.
- 6 *Odontopleura Beyrichii* Hawle et Corda, lectotype, L 5364, x3.
- 7 *Diplorrhina cristata* Hawle et Corda, holotype, L 5142, x10.
- 8 *Cyclopyge pachycephala* Hawle et Corda, lectotype, L 19773, x5.
- 9 *Agraulos delphinocephalus* Hawle et Corda, lectotype, L 17653, x3.
- 10 *Harpes concavus* Hawle et Corda, lectotype, L 19793, x1.5.
- 11 *Proetus leiurus* Hawle et Corda, lectotype, L 11406, x3.

Plate 4

- 1 *Odontopleura Burmeisteri* Hawle et Corda, lectotype, L 19788, x5.
- 2 *Chirurus cruciatus* Hawle et Corda, holotype, L 6353, x3.
- 3 *Conoparia Cerberus* Hawle et Corda, lectotype, L 19766, x3.
- 4 *Proetus Forchhammeri* Hawle et Corda, lectotype, L 18313, x5.
- 5 *Dicranopeltis aspera* Hawle et Corda, lectotype, L 19796, x3.
- 6 *Conoparia cornigera* Hawle et Corda, holotype, L 17672, x2.
- 7 *Nileus cyclurus* Hawle et Corda, neotype, L 3677, x3.
- 8 *Odontopleura Dumortieri* Hawle et Corda, holotype, L 5371, x5.

Plate 5

- 1 *Tetracnemis elegantula* Hawle et Corda, lectotype, L 3465, x10.
- 2 *Diplorrhina asperula* Hawle et Corda, holotype, L 5089, x5.
- 3 *Diplorrhina Monas* Hawle et Corda, lectotype, L 5084, x10.
- 4 *Crithias minima* Hawle et Corda, lectotype, L 3294, x10.
- 5 *Diplorrhina elliptica* Hawle et Corda, lectotype, L 4889, x10.
- 6 *Plaesiacomia rara* Hawle et Corda, neotype, L 15162, x5.
- 7 *Phacops Eichwaldii* Hawle et Corda, lectotype, L 17648, x3.
- 8 *Odontopleura Hoseri* Hawle et Corda, lectotype, IT 714, x2.

- 9 *Phalacroma quadrinotatum* Hawle et Corda, lectotype, L 5163, x10.
- 10 *Polytomurus speciosus* Hawle et Corda, lectotype, L 17656, x5.
- 11 *Harpes carinatus* Hawle et Corda, lectotype, L 19790, x2.
- 12 *Placoparia macroptera* Hawle et Corda, lectotype, L 18389, x5.
- 13 *Acanthopyge Leuchtenbergi* Hawle et Corda, lectotype, L 15148, x 1.5.
- 14 *Peronopsis integra* Hawle et Corda, lectotype, L 5105, x10.
- 15 *Illaeus glaberrimus* Hawle et Corda, holotype, L 19776, x3.
- 16 *Phalacroma carinatum* Hawle et Corda, lectotype, L 5110, x10.
- 17 *Enneacnemis Herschellii* Hawle et Corda, holotype, L 3350, x10.
- 18 *Phalacroma emarginatum* Hawle et Corda, holotype, L 5107, x10.

Plate 6

- 1 *Conoparia misera* Hawle et Corda, lectotype, L 19795, x4.
- 2 *Conoparia glabra* Hawle et Corda, holotype, L 3678, x4.
- 3 *Conoparia convexa* Hawle et Corda, holotype, L 5356, x5.
- 4 *Odontopleura Haushoferii* Hawle et Corda, lectotype, L 5370, x4.
- 5 *Illaeus minutus* Hawle et Corda, lectotype, L 5275, x4,7.
- 6 *Harpes convexus* Hawle et Corda, lectotype, L 18339, x3.
- 7 *Odontopleura Neumanni* Hawle et Corda, lectotype, L 1152, x3.
- 8 *Dicranopeltis parva* Hawle et Corda, lectotype, L 16622, x5.
- 9 *Odontochile aspera* Hawle et Corda, lectotype, L 19798, x1,2.
- 10 *Odontopleura Laportii* Hawle et Corda, lectotype, L 1996, x2.

Plate 7

- 1 *Phalacroma scutiforme* Hawle et Corda, lectotype, L 5111, x10.
- 2 *Alceste latissima* Hawle et Corda, holotype, L 15172, x4.
- 3 *Arthrorhachis tarda* Hawle et Corda, lectotype, L 5145, x10.
- 4 *Harpes Montagnei* Hawle et Corda, lectotype, L 2996, x2.
- 5 *Harpes reticulatus* Hawle et Corda, lectotype, L 12605, x 1.5.
- 6 *Odontochile subdepressa* Hawle et Corda, lectotype, L 19801, x1.
- 7 *Phacops exasperatus* Hawle et Corda, lectotype, L 19771, x 1.5.
- 8 *Phacops laticauda* Hawle et Corda, lectotype, L 19803, x1.
- 9 *Dindymene Friderici Augusti* Hawle et Corda, syntype, L 16332, x5.
- 10 *Dicranognmus pustulatus* Hawle et Corda, lectotype, L 11413, x2.
- 11 *Odontopleura Geinitziana* Hawle et Corda, lectotype, L 1855, x5.
- 12 *Placoparia macroptera* Hawle et Corda, syntype, L 17625, x2.

Plate 8

- 1 *Paradoxides latus* Hawle et Corda, lectotype, L 17651, x3.
- 2 *Phalacroma laevigatum* Hawle et Corda, holotype, L 19833, x5.
- 3 *Odontopleura tenuicornis* Hawle et Corda, holotype, L 1146, x3.
- 4 *Proetus boops* Hawle et Corda, lectotype, L 11412, x3.
- 5 *Cyclopyge marginata* Hawle et Corda, holotype, L 19769, x5.
- 6 *Chirurus obtusatus* Hawle et Corda, lectotype, L 15759, x2.
- 7 *Eccoptochile curta* Hawle et Corda, holotype, L 5266, x3.
- 8 *Phacops verrucifer* Hawle et Corda, holotype, L 17689, x1.
- 9 *Calymene declinata* Hawle et Corda, lectotype, L 19765, x2.

Plate 9

- 1 *Phacops horridus* Hawle et Corda, lectotype, L 19778, x2.
- 2 *Trapelocera Hoernesii* Hawle et Corda, lectotype, L 5377, x3.
- 3 *Illaeus limbatus* Hawle et Corda, lectotype, L 17635, x1,5.
- 4 *Trapelocera leptodonta* Hawle et Corda, lectotype, L 1814, x2.
- 5 *Chirurus globifrons* Hawle et Corda, lectotype, L 18347, x3.
- 6 *Conoparia macrocephala* Hawle et Corda, holotype, L 19794, x4.

- 7 *Illaeus laticeps* Hawle et Corda, lectotype, L 19789, x3.
- 8 *Phacops ovoideus* Hawle et Corda, lectotype, L 19808, x1.5.

Plate 10

- 1 *Diplorrhina Sirius* Hawle et Corda, lectotype, L 4896, x10.
- 2 *Diplorrhina Orion* Hawle et Corda, lectotype, L 4854, x10.
- 3 *Phalacroma nudum* Hawle et Corda, lectotype, L 5106, x5.
- 4 *Phacops ruderalis* Hawle et Corda, lectotype, L 17658, x3.
- 5 *Staurogmus muricatus* Hawle et Corda, lectotype, L 3250, x2.
- 6 *ibid*, pathological thoracic segments, x10.
- 7 *Odontopleura Reichenbachii* Hawle et Corda, lectotype, L 5380, x3.
- 8 *Acanthogramma speciosa* Hawle et Corda, holotype, L 3386, x14.

Plate 11

- 1 *Dicranopeltis scabra* Hawle et Corda, lectotype, L 17623, x 1.5.
- 2 *Odontopleura rotundata* Hawle et Corda, holotype, L 5361, x4.
- 3 *Pharostoma gibbosum* Hawle et Corda, holotype, L 5164, x10.
- 4 *Odontochile rugosa* Hawle et Corda, lectotype, L 18379, x1.
- 5 *Odontopleura ruderalis* Hawle et Corda, holotype, L 15668, x2.
- 6 *ibid*, x 2.5.
- 7 *Odontopleura impar* Hawle et Corda, holotype, L 5365, x5.
- 8 *Calymene interjecta* Hawle et Corda, neotype, L 17691, x2.
- 9 *Phacops reclinatus* Hawle et Corda, lectotype, L 19815, x2.

Plate 12

- 1 *Odontopleura Siemangii* Hawle et Corda, lectotype, L 1673, x4.
- 2 *Trinucleus pragensis* Hawle et Corda, holotype, L 18306, x2.
- 3 *Pharostoma pulchra* Hawle et Corda, lectotype, L 17657, x 1.5.
- 4 *Phacops pentagonus* Hawle et Corda, lectotype, L 17649, x2.
- 5 *Phacops Sieberi* Hawle et Corda, lectotype, L 5270, x1.5.
- 6 *Illaeus subtriangularis* Hawle et Corda, lectotype, L 17662, x3.
- 7 *Phacops quadratus* Hawle et Corda, holotype, L 5395, x3.
- 8 *ibid*.

Plate 13

- 1 *Conoparia Burmeisteri* Hawle et Corda, lectotype, L 5391, x5.
- 2 *Ctenocephalus Barrandii* Hawle et Corda, lectotype, L 17666, x2.
- 3 *Conoparia aspera* Hawle et Corda, holotype, L 19767, x4.
- 4 *Phacops Goldfussii* Hawle et Corda, lectotype, L 17646, x4.
- 5 *Odontopleura Dormitzeri* Hawle et Corda, lectotype, L 15678, x 3.5.
- 6 *Odontochile laticauda* Hawle et Corda, lectotype, L 19802, x1.
- 7 *Odontochile applanata* Hawle et Corda, lectotype, L 19797, x1.2.
- 8 *Odontopleura Lindackeri* Hawle et Corda, lectotype, L 5388, x3.
- 9 *Odontochile auriculata* Hawle et Corda, lectotype, L 17681, x1.
- 10 *Selenoptychus rotundatus* Hawle et Corda, lectotype, L 18321, x5.
- 11 *Odontopleura Steenstrupi* Hawle et Corda, lectotype, L 5292, x4.
- 12 *Chirurus verrucosus* Hawle et Corda, holotype, L 19791, x3.

Plate 14

- 1 *Trapelocera rhabdophora* Hawle et Corda, holotype, L 5368, x2.
- 2 *Paradoxides rugulosus* Hawle et Corda, lectotype, L 12639, x12.
- 3 *Phylsacium paradoxum* Hawle et Corda, lectotype, L 18387, x10.
- 4 *Prionopeltis Paris* Hawle et Corda, syntype, L 12184, x5.
- 5 *Odontopleura Zenkeri* Hawle et Corda, holotype, L 5359, x4.
- 6 *ibid*.

- 7 *Goniacanthus Partschii* Hawle et Corda, lectotype, L 3469, x10.
- 8 *Prionopeltis Paris* Hawle et Corda, lectotype, L 12184, x4.
- 9 *Harpes sculptus* Hawle et Corda, holotype, L 19770, x2.
- 10 *Diplorrhina selenophora* Hawle et Corda, lectotype, L 5141, x10.

Plate 15

- 1 *Odontopleura Germari* Hawle et Corda, holotype, L 5360, x4.
- 2 *Dindymene Friderici Augusti* Hawle et Corda, lectotype, L 16331, x5.
- 3 *Acanthocnemis glabra* Hawle et Corda, lectotype, L 3344, x10.
- 4 *Amphitryon Murchisoni* Hawle et Corda, holotype, L 16339, x2.
- 5 *Pleuroctenium granulatum* Hawle et Corda, lectotype, L 5149, x5.
- 6 *Eccoptochile perlata* Hawle et Corda, lectotype, L 19786, x1.
- 7 *Phalacroma ellipticum* Hawle et Corda, lectotype, L 5016, x10.
- 8 *Trinucleus minor* Hawle et Corda, lectotype, L 18305, x5.
- 9 *Tetrapselium pulchrum* Hawle et Corda, lectotype, L 19832, x10.
- 10 *Conoparia verrucosa* Hawle et Corda, lectotype, L 3681, x4.

Plate 16

- 1 *Odontochile tuberculata* Hawle et Corda, lectotype, L 19800, x3.
- 2 *Corydocephalus verrucosus* Hawle et Corda, lectotype, L 19768, x2.
- 3 *Odontopleura Zenonis* Hawle et Corda, holotype, L 15643, x10.
- 4 *Acanthogramma verruculosa* Hawle et Corda, lectotype, L 3375, x10.
- 5 *Trinucleus cribrus* Hawle et Corda, holotype, L 18308, x1.5.
- 6 *Trapelocera Verneullii* Hawle et Corda, lectotype, L 17624, x5.
- 7 *Odontopleura truncata* Hawle et Corda, lectotype, L 17693, x5.
- 8 *ibid.*

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