Granulaptychus, U.Jur., Ger.; ×2 (TRAUTH).

Praestriaptychus. Broad; surface with concentric striae or folds; inside similar. *M.Jur.-L.Cret.* [*Normannites, Parkinsonia, Kepplerites, Kosmoceras; U.Jur.,* Perisphinctidae *(partim)*].——FIG. 558,*2*. Praestriaptychus, U.Jur., Ger.; ×1 (TRAUTH).

Laevaptychus. Broad, thick-shelled; surface covered with fine pores; inside with fine growth lines. *U.Jur.* [*Aspidoceras, Hybonoticeras, ?Simoceras*]. ——FIG. 558,*12*. Laevaptychus, U.Jur.; *12a,b*, ×1 (TRAUTH).

Pteraptychus. Valves fused, surface with feather-like ribbing. *L.Cret.-U.Cret.* [Ammonite unknown].——FIG. 558,*11*. Pteraptychus, U.Cret. (Senon.), Alg.; ×2 (TRAUTH).

Spinaptychus. Thin-shelled, surface covered irregularly with perforated spiny protuberances; inside with growth lines and folds. *U.Cret.* [?Texanitinae].——FIG. 558,*8*. Spinaptychus, U.Senon., Eng.; *8a,b*, ×1 (COX).

Lissaptychus. Small, very thin-shelled, smooth except for some fine growth lines and few fine radial striae. *U.Cret.* [*?Parapuzosia*].——FIG. 558,*9*. Lissaptychus; ×1 (TRAUTH).

Synaptychus FISCHER, 1882 [=Striaptychus TRAUTH, 1927]. Thin-shelled, surface striate or delicately waved, some also granulate. Valves may be fused or partly fused. *U.Cret.* [Scaphitidae].

Pseudostriaptychus. Similar to Synaptychus, but not known to have fused valves, and usually with more prominent folds. *U.Cret.* [?Pachydiscidae].—— FIG. 557,*1*. Pseudostriaptychus, Senon., Eng.; ×1 (SHARPE).

Rugaptychus. Valves elongate, with strong, sharp ribs in which is a right-angled or acute-angled bend; inside with growth lines. *U.Cret.*[*Baculites*]. ——FIG. 557,*3*; 558,*5*. Rugaptychus; ×1 (TRAUTH).

Crassaptychus. Shell extremely thick, especially the median layer, which has conspicuous tubular structure. *U.Cret.* [Ammonite unknown.]

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(see facing page)

FIG. 558. Aptychi. *1, Anaptychus,* U.Dev.-Cret.; *1a,* U.Cret. (reconstr.), ×2 (666a); *1b,* Cret., ×1 (628a). *2, Praestriaptychus,* M.Jur.-L.Cret., ×1 (725a). *3, Cornaptychus,* L.Jur.-M.Jur., ×1 (725a). *4, Laevilamellaptychus,* U.Jur.-L.Cret., ×1 (725a). *5, Rugaptychus,* U.Cret., ×1 (725a). *6, Granulaptychus,* M.Jur.-L.Cret., ×2 (725a). *7, Lamellaptychus,* M.Jur.-L.Cret., ×1 (725*a). *8, Spinaptychus,* U.Cret.; *8a,b,* interior, exterior, ×1 (601a). *9, Lissaptychus,* U.Cret., ×1 (725a). *10, Punctaptychus,* M.Jur.-L.Cret.; *10a,b,* ×1.5, ×1 (725a). *11, Pteraptychus,* L.Cret.-U.Cret., ×2 (725a). *12, Laevaptychus,* U.Jur.; *12a,b,* interior, exterior, ×1 (725a). [Orientation according to TRAUTH.]

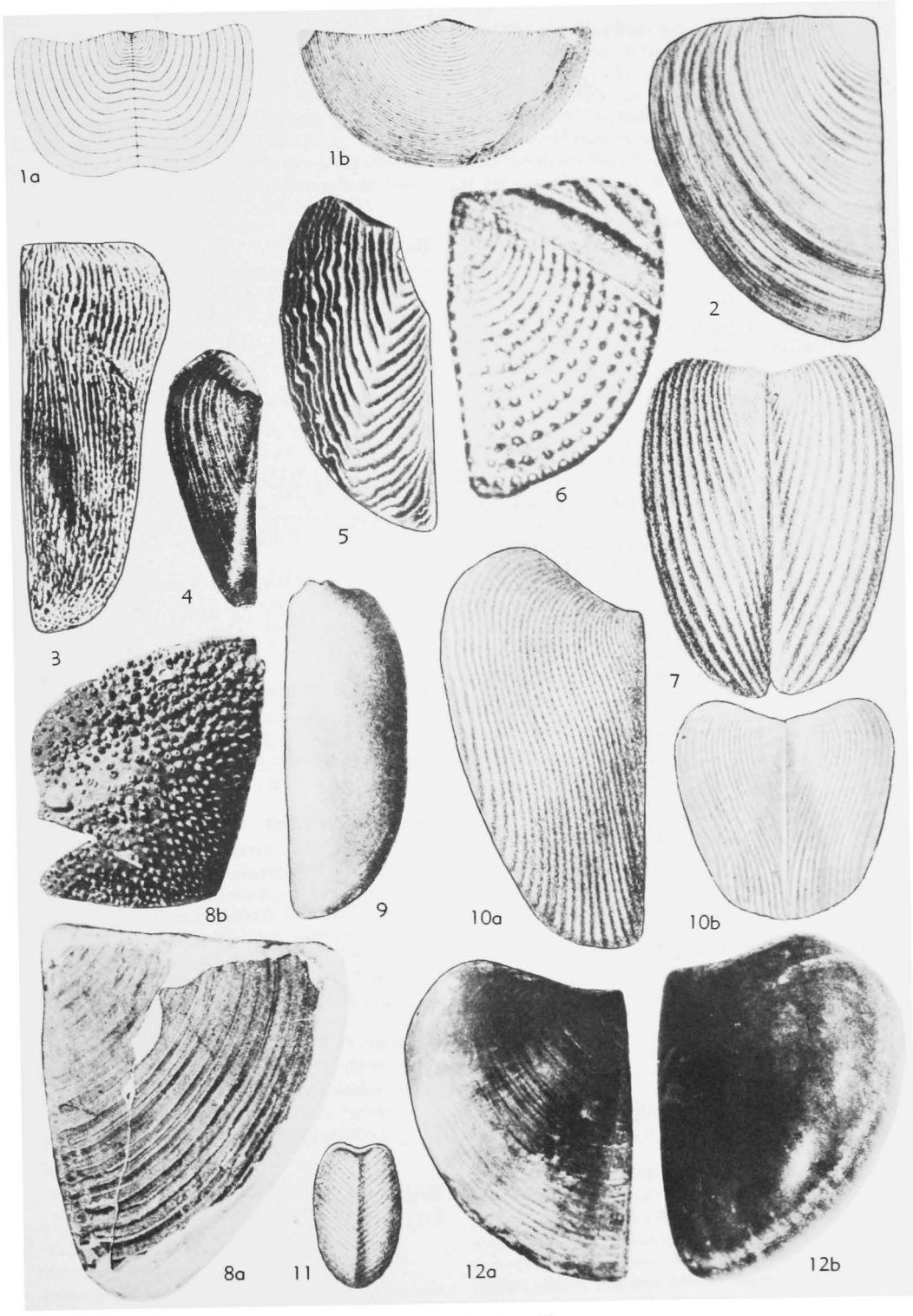

FIG. 558. Aptychi.

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SOURCES OF ILLUSTRATIONS

The sources of illustrations of Mesozoic ammonoids published in Part L of the *Treatise* are recorded by index numbers given with the figure captions. All such numbers from 1 to 578, inclusive, in the Mesozoic portion of the text denote a publication cited in the list of references to literature placed at the end of the Mesozoic section and higher numbers (579 to 743) indicate authors who are sources of illustrations not contained or not cited by individual publications in the list of references. An asterisk (*) associated with the index number signifies photographic reproduction of the source figure and the absence of an asterisk should be understood to mean "after" the cited author, since the *Treatise* figure incorporates change that is not confined to scale. An original figure is designated by the letter "n" (for "new") accompanying the index number.

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TAXONOMY AND NOMENCLATURE OF APTYCHI

By R. C. Moore and P. C. Sylvester-Bradley

INTRODUCTION

The purpose of this chapter is to discuss briefly problems encountered in classifying and naming the fossils which have come to be called aptychi. As described in preceding parts of this volume by Miller & Furnish (p. L14) and Arkell (p. L99), these remains seem to comprise skeletal parts of ammonoid cephalopods, for in aggregate a large number of specimens have been found in the living chamber of ammonoid conchs. The fact that the outline of many aptychi approximately corresponds to the shape of the aperture of the conchs associated with them and the occurrence of aptychi in the living chamber of conchs have led to general interpretation of them as opercular structures. This explanation is rejected, however, by various investigators (as Zittel, Waagen, Deshayes, Quenstedt, Steinmann, Coquand, and Giebel) who have pointed out seemingly cogent reasons for inferring a different morphological function (shield over the funnel, cover of the nidamentary gland, mineralized structure equivalent to the cartilaginous knobs of modern dibranchs which fit into mantle sockets so as to insure efficient expulsion of water through the funnel, and others). Schindewolf (personal communication) reports that unpublished studies on various Upper Devonian ammonoids from western Germany establish beyond reasonable question the opercular nature of aptychi collected from Devonian beds. We are not concerned here with discussion of this problem except to note its bearing on questions of taxonomy and nomenclature of aptychi.

Chief pertinent observations concerning aptychi are the following: (1) These fossil remains comprise structures which exhibit no sign of hingement or other physical connection with the peristome or walls of ammonoid conchs; (2) associations of aptychi with conchs in such manner as to indicate that each conch-and-aptychus represents a single ammonoid individual are numbered in scores and yet are comparatively rare; (3)

most aptychi are found as discrete isolated fossils, generally scarce, but in some strata abundant enough to warrant designation of these deposits as aptychus beds; (4) as a rule, ammonoid conchs are rare or lacking in aptychus beds; (5) the stratigraphic occurrence of aptychi (Devonian to Cretaceous, inclusive) corresponds to the recorded distribution of ammonoids; and (6) aptychi possess demonstrated value for purposes of stratigraphic paleontology.

NEED FOR CLASSIFICATION AND NOMENCLATURE OF APTYCHI

The last-stated observation of the preceding paragraph—that aptychi have usefulness in stratigraphic paleontology—is in itself an adequate reason for concluding that effort to find any workable means for the classification and naming of these fossils should have the support of paleontologists. Utilitarian objectives here transcend questions of zoological affinities, particularly as regards the application of names for fossils consisting of aptychi. For example, it is interesting and helpful to learn that closely similar species of distinctive aptychi, in fact, all known representatives of the genus *Spinaptychus,* occur in Senonian beds of Syria, Palestine, England, and central United States, yet the conchs to which they belong have not been discovered. Because aptychi are useful fossils, we oppose an application which has been submitted by ARKELL (1954) to the International Commission on Zoological Nomenclature for the suppression of names published for aptychi, although we subscribe wholeheartedly to his essential aim, which is to avoid interference of aptychus names with those accepted for ammonoid conchs. Accordingly, a counterproposal prepared for us seeks approval of the Commission for establishment of dual nomenclature that provides definition of classificatory units (called parataxa) applicable to aptychi so that names for them are wholly distinct from those recognized for ammonoid conchs and incapable of interfering with the nomenclature of conchs.

It is appropriate to point out that scientific literature devoted to the description of aptychi has grown to many hundreds of pages and dozens of plates devoted to illustration of these fossils. The beginning of such publications actually antedates the 10th edition of LINNÉ's *Systema Naturae* (1758) and 2 generic names for aptychi were introduced by GESNER in 1758, even though at that time the zoological affinities of these fossils were not understood. Generic names for aptychi were published also by PARKINSON in 1811, SCHLOTHEIM in 1813 and 1820, BOURDET DE LA NIEVRE in 1822, VON MEYER in 1831, and by others shortly later. The literature on aptychi had early beginnings.

DISTINCTION BETWEEN ZOOLOGICAL NAMES AND MORPHOLOGICAL TERMS AS APPLIED TO APTYCHI

The first-used designations of aptychi are readily identifiable as generic and specific names. They are zoological names. Among these was *Aptychus,* introduced by VON MEYER in 1831 for several kinds of bipartite fossil forms which were distinguished by specific names such as *imbricatus, laevis, elasma,* and others.

GIEBEL (1847) seems first to have employed "aptychus" as designation for a particular kind of fossil when he used it in proposing *Sidetes* as a new generic name for a univalve form. Subsequently, "aptychus" and "aptychi" have come to be used universally as morphological terms for the structures of presumed opercular nature belonging to ammonoids or having other functions in the body of these and possibly other cephalopods. Originally, however, *Aptychus* was a generic name. At least some confusion is entailed in maintaining this usage when combined with employment of aptychus in the vernacular as a common noun.

In 1856 OPPEL observed an undivided type of *Aptychus*-like structure in the living chamber of *Ammonites planorbis* and he designated it as an "anaptychus" (unfolded aptychus), using both "aptychus" and "anaptychus" as morphological terms rather than as zoological names. The citation of OPPEL as author of *Anaptychus,* used as a generic name (although recorded by NEAVE's *Nomenclator Zoologicus,* v. 1, p. 178 and used by several writers) is therefore erroneous. It was in 1860 that *Anaptychus* first appeared as a generic name when STIMPSON published it as designation for a group of crustaceans. Later, in 1868, SCHLUMBERGER first employed *Anaptychus* in combination with specific names for some new species of Lower Jurassic aptychi. Thus, *Anaptychus*

SCHLUMBERGER is invalid because it is a junior homonym of *Anaptychus* STIMPSON.

Another sort of aptychus, consisting of 2 distinct halves partly or entirely fused together along their mid-line, was described and illustrated in 1882 by FISCHER, who chose for it the appropriate designation of "synaptychus." Like GIEBEL's use of "aptychus" and OPPEL's use of "aptychus" and "anaptychus" as common nouns, FISCHER did not employ "synaptychus" as a new generic name but as a morphological term. Nowhere is this designation used in combination with a specific name to form a binomen, but rather, FISCHER writes of "the synaptychus of *Scaphites spiniger*." The author who first published *Synaptychus* as a generic name is BASSE, 1952, and as shown later, this name is a junior objective synonym of *Striaptychus* TRAUTH, 1927.

Reviewing these matters of nomenclature and terminology, we may dispense with *Anaptychus* as a generic name applied to aptychi because of its status as an invalid name (junior homonym) and similarly we may discard *Synaptychus* because it is a junior objective synonym. This leaves *Aptychus,* which under the Règles stands as an available generic name. However, on the grounds of its disuse during more than 50 years and its replacement (both *sensu lato* and *sensu stricto*) by other names which have gained wide acceptance, we have proposed that the International Commission should suppress *Aptychus* VON MEYER, 1831, for purposes of the Law of Priority but not the Law of Homonymy. In this way the words "aptychus," "anaptychus," and "synaptychus" may have unambiguous signification as morphological terms alone. The additional term "diaptychus" is here proposed for bivalved aptychi. Thus the following morphological definitions may be given:

Morphological Terms for Aptychi

aptychus (pl., **aptychi**). All types of calcareous or corneous structures presumed to serve as opercula of ammonoid conchs.

diaptychus (pl., **diaptychi**). Aptychus composed of 2 discrete valves.

synaptychus (pl., **synaptychi**). Like diaptychus, but valves fused or partly fused along mid-line.

anaptychus (pl., **anaptychi**). Univalved type of aptychus.

GENERIC NAMES APPLIED TO APTYCHI

In this section we undertake to define generic names applicable to classification of aptychi, treating essential nomenclatural citations as compactly as possible but for purposes of reasonable completeness and convenience of readers, repeating with minor changes brief descriptions and references to illustrations which may be found in the immediately preceding chaper on aptychi by ARKELL (therefore acknowledged to him). Names for aptychi that may be used without any conflict involving names adopted for ammonoid conchs seem to be a necessity, but the status of nomenclature affecting these fossils depends on not-yet-made decisions of the International Commission on Zoological Nomenclature. According to our view, aptychus names should neither be suppressed (and thus removed from recognition by the Règles) nor accepted in manner that forces competition with conch names (thus overturning usage and perpetuating various sorts of ambiguities). In following text generic names applied to aptychi are arranged in chronologic order. Type species (both of recognized nominal genera and of synonyms) are marked by an asterisk and as elsewhere in the *Treatise* the abbreviations "SD" and "SM" stand for subsequent designation and subsequent monotypy; in addition, "OD" is used to denote original designation by monotypy (no other mode of original designation being found among aptychus names) and "MOORE-S.B." signifies MOORE & SYLVESTER-BRADLEY. Publications are cited by index numbers given in the list of references at end of the chapter.

Sidetes GIEBEL, 1847 (12, p. 821) [**S. striatus* GIEBEL, 1849, SM (13, p. 99; 14, p. 773)] [=*Anaptychus* SCHLUMBERGER, 1868 (29, p. 97), **Ammonites laqueus* QUENSTEDT, 1849, SD (MOORE-S.B., herein); *non* anaptychus OPPEL, 1856 (22, p. 108; 23, p. 194), morphological term; *non Anaptychus* STIMPSON, 1860 (Ann. Lyceum Nat. Hist. N.Y., v. 7, p. 183), Crust.] [=*Pholadocaris* H.WOODWARD, 1882 (47, p. 388), **P. leeii* WOODW., 1882, OD (47, p. 388, pl. 9, fig. 16); *fide* TRAUTH, 1935 (37, p. 69), confirmed MOORE-S.B.] [=*Cardiocaris* H.WOODWARD, 1882 (47, p. 386), **C. roemeri* WOODW., 1882 (47, p. 386, pl. 9, fig. 1-3), SD MOORE-S.B., herein; *fide* TRAUTH, 1935 (37, p. 65), confirmed MOORE-S.B.] [?=*Ellipsocaris* H.WOODWARD, 1882 (48, p. 444), **E.*

duwalquei WOODW., 1882, OD (48, p. 445, fig. 4); *fide* TRAUTH, 1935 (37, p. 58), confirmed MOORE-S.B.] [?=*Lisgocaris* CLARKE, 1882 (5, p. 478), *L. lutheri* CLARKE, 1882, OD (5, p. 478, fig. 5); *fide* TRAUTH, 1935 (37, p. 67), confirmed MOORE-S.B.] [=*Palanaptychus* TRAUTH, 1927 (33, p. 203), **Manticoceras intumescens* (BEYRICH), OD] [=*Neoanaptychus* NAGAO, 1931 (19, p. 109), **N. tenuiliratus* NAGAO, 1931, OD (19, p. 109, fig. 1-2); TRAUTH's (38, p. 459) designation of *N. semicostatus* NAGAO, 1932 (20, p. 175) as type species is invalid]. Anaptychi with varying outline, surface shiny and concentrically or radially striate or with concentric folds, some with thin outer calcareous layer but mostly of chitinous nature. *U. Dev.-U.Cret.,* world-wide.——FIG. 558,*1a. S. semicostatus* (NAGAO), U.Cret.(Senon.), Japan; reconstr., ×2 (NAGAO).——FIG. 558,*1b. *S. striatus* GIEBEL, U.Cret.(Senon.), Ger.; ×1 (GIEBEL). Others, FIGS. 3, 146.

Cornaptychus TRAUTH, 1927 (33, p. 189) [**Aptychus hectici* QUENSTEDT, 1849 (25, p. 119, 315, pl. 8, fig. 10); OD (33, p. 189, 228). Diaptychi, chitinous, with shiny black surface marked by corrugations subparallel to lateral margins. *L.Jur.-M.Jur.,* Eu.-N.Afr.——FIG. 558,*3. C. stenelasma davilaigranulata* TRAUTH, L.Jur., Ger.; ×1 (TRAUTH).

Crassaptychus TRAUTH, 1927 (33, p. 205, 228) [**Aptychus crassus* HÉBERT, 1855 (16, p. 368, pl. 28, fig. 8a,b); OD]. Diaptychi, very thick, especially middle layer which has prominent tubular structure. *U.Cret.,* Eu.

Granulaptychus TRAUTH, 1927 (33, p. 217, 228) [**G. suevicus* TRAUTH, 1930 (35, p. 389, pl. 5, fig. 4, lectotype herein designated, MOORE-S.B.); SD MOORE-S.B., herein (no species assigned to genus by TRAUTH in 1927)]. Diaptychi, thin-shelled, generally broad, with outer surface marked by concentric rows of granules and inner surface smooth except for growth lines. *M.Jur.-L.Cret.,* Eu.——FIG. 558,*6. G. planulati* (FRAAS), Jur., Ger.; ×2 (TRAUTH).

Laevaptychus TRAUTH, 1927 (33, p. 189, 228) [**Aptychus meneghinii* ZIGNO, 1870 (49, p. 11, pl. 8, fig. 1-4); OD] [=?*Tellinites* GESNER, 1758 (11, p. 38), **Tellina lapidea* GESNER, 1758 *(loc. cit.),* OD; *nomen dubium* recommended for suppression, ICZN pend.] [=*Ichthyosiagones* BOURDET DE LA NIEVRE, 1822 (4, p. 82), **Tellinites problematicus* SCHLOTHEIM, 1820 (28, p. 182), RÜPPELL, 1829 (26, p. 12, pl. 2, fig. 1-3); SD RÜPPELL, 1829 *(loc. cit.);* =**Trigonellites latus* PARKINSON, 1811 (24, p. 18); recommended for suppression as a long-overlooked name (ICZN pend.)] [=*Ichthyosiagon* HERRMANNSEN, 1847 (Index Gen. Malac., v. 1, p. 555), invalid subsequent spelling of *Ichthyosiagones*]. Diaptychi with broad, moderately thick calcareous valves, outer surface marked by fine pores and inner side with fine growth lines. *U.Jur.,* Eu.-N.Afr.——FIG. 558,*12. *L. latus* (PARKINSON), Solnhofen, Ger.; *12a,b,* outer and inner sides of valve, ×1 (TRAUTH).

Lamellaptychus TRAUTH, 1927 (33, p. 189, 228) [**Trigonellites lamellosus* PARKINSON, 1811 (24, p. 184, pl. 13, fig. 10-11); SD MOORE-S.B., herein] [=*Trigonellites* PARKINSON, 1811 (24, p. 184), obj., **T. lamellosus* PARKINSON, 1811 *(loc. cit.),* SD MOORE-S.B., herein] [=?*Solenites* GESNER, 1758 (11, p. 39) (*?non Solenites* SCHLOTH., 1820, p. 180). **Solen lapideus* GESNER, 1758, OD; *nomen dubium,* recommended for suppression, ICZN pend.] [=?*Solennites* SCHLOTHEIM, 1813 (27, p. 105), **S. annulatus* SCHLOTH., 1813 *(loc. cit.),* OD; *nomen dubium* recommended for suppression, ICZN pend.] [=*Aptychus* VON MEYER, 1831 (18, p. 125), commonly cited erroneously as 1829, **A. imbricatus* MEYER, 1831 (18, p. 127, pl. 59, fig. 1-12), SD MOORE-S.B., herein (=*Trigonellites lamellosus* PARKINSON, 1811, *fide* MEYER, 1831, p. 127; *fide* GIEBEL, 1851, p. 768; *fide* TRAUTH, 1938, p. 149; confirmed MOORE-S.B.); recommended for suppression in order to avoid extensive name changes, ICZN pend.] [=*Muensteria* EUDES-DESLONGCHAMPS, 1835 (9, p. 61), as *Münsteria* (*non* KNEBEL, 1909, Arch. Biont., v. 2, p. 222), **M. sulcata* EUDES-DESLONGCHAMPS, 1835 (9, p. 66, pl. 2, fig. 10-11), SD MOORE-S.B., herein (=*Trigonellites lamellosus* PARKINSON, 1811; *fide* TRAUTH, 1938, p. 149; confirmed MOORE-S.B.); recommended for suppression as a long-overlooked name, ICZN pend.] [=*Aptycus* DESHAYES, 1845 (in LAMARCK, Animaux sans verteb., ed. 2, v. 11, p. 228); erroneous subsequent spelling of *Aptychus* VON MEYER, 1831] [=*Aptichus* CROSSE, 1867 (Jour. Conchyliol., v. 15, p. 156); erroneous subsequent spelling of *Aptychus* VON MEYER, 1831] [?=*Palaptychus* TRAUTH, 1927 (33, p. 214), **Aptychus carbonarius* VON KOENEN, 1879 (17, p. 317), SD MOORE-S.B., herein]. Narrow diaptychi with outer surface covered by strong oblique folds, calcareous. *M.Jur.-L.Cret.,* Eu.-N.Afr.——FIG. 557,*4. *L. lamellosus lamellosus* (PARKINSON), U.Jur., Ger.; *4a,b,* exterior and transv. sec., ×1 (MEYER).——FIG. 558, *7. L. lamellosus solenoides* (SCHLOTH.), U.Jur., Ger.; exterior, ×1 (QUENSTEDT).

Lissaptychus TRAUTH, 1927 (33, p. 220, 231) [**Aptychus leptophyllus* SHARPE, 1856 (32, p. 55, pl. 24, fig. 1a,b), SD MOORE-S.B., herein]. Thin-shelled diaptychi with smooth surface except for fine growth lines and some radial striae. *U.Cret.,* Eu.——FIG. 558,*9. *L. leptophyllus* (SHARPE), Senon., Ger.; ×1 (STOLLEY).

Praestriaptychus TRAUTH, 1927 (33, p. 219, 230) [**P. gerzensis* TRAUTH, 1930 (35, p. 380, pl. 5, fig. 14-15, lectotype herein designated as original of fig. 14), SD MOORE-S.B., herein; no species assigned to genus by TRAUTH in 1927]. Broad diaptychi with both outer and inner surfaces

marked by concentric striae or folds. *M.Jur.-L.Cret.*, Eu.——FIG. 558,*2*. *P. fraasi* TRAUTH, Jur., Ger.; exterior, ×1 (TRAUTH).

Pseudostriaptychus TRAUTH, 1927 (33, p. 220, 231) [**P. pseudostobaei* TRAUTH, 1928 (34, p. 168), SM (ICZN pend.)]. Diaptychi with thin delicately waved or striate surface. *U.Cret.*, Eu.——FIG. 557, *1*. *P. gollevillensis* (SHARPE), Senon., Eng.; exterior, ×1 (SHARPE).

Pteraptychus TRAUTH, 1927 (33, p. 188, 218) [**Aptychus numida* COQUAND, 1854 (p. 140, pl. 3, fig. 1); OD]. Synaptychi with outer surface marked by pinnately arranged ribs diverging from midline. *L.Cret.-U.Cret.*, N.Afr.——FIG. 558,*11*. **P. numida* (COQUAND), U.Cret.(Senon.), Alg.; exterior, ×1 (COQUAND).

Punctaptychus TRAUTH, 1927 (33, p. 200, 228) [**Aptychus punctatus* VOLTZ, 1837 (46, p. 435; 40, p. 315, pl. 12, fig. 1-6); SD MOORE-S.B., herein.]. Diaptychi with outer surface bearing closely spaced ridges slightly oblique to line between valves, and furrows between ridges coarsely punctate. *M.Jur.-L.Cret.*, Eu.——FIG. 558,*10*. **P. punctatus* (VOLTZ), Jur., Ger.; *10a,b*, ×1 (TRAUTH).

Rugaptychus TRAUTH, 1927 (33, p. 220, 228) [**Aptychus rugosus* SHARPE, 1856 (32, p. 57, pl. 24, fig. 8-9); SD MOORE-S.B., herein]. Elongate diaptychi with strong sharp ridges on outer surface, ridges characteristically arranged with angulated bend; inner surface with growth lines, nearly smooth. *U.Cret.*, Eu.——FIG. 557,*3*. **R. rugosus rugosus* (SHARPE), Senon., Eng.; exterior, ×1 (SHARPE).——FIG. 558,*5*. *R. rugosus insignis* (HÉBERT), Senon., Fr.; exterior, ×1 (HÉBERT).

Spinaptychus TRAUTH, 1927 (33, p. 200, 220) [**Aptychus spinosus* Cox, 1926 (7, p. 577, pl. 24, fig. 1-3); OD]. Thin-shelled diaptychi with outer surface largely covered by spiny protuberances; inner surface with growth lines and gentle concentric folds. *U.Cret.*, NW.Eu.-E.Medit.-C.N.Am. (Kans.).——FIG. 558,*8*. **S. spinosus* (Cox), Senon., Eng.; *8a,b*, exterior, interior, ×1 (Cox).

Striaptychus TRAUTH, 1927 (33, p. 189, 229) [**S. spinigeri* TRAUTH, 1927 (33, p. 244; 30, p. 83, pl. 25, fig. 5-7, aptychus here illustrated defined as lectotype, MOORE-S.B., herein); SD MOORE-S.B., herein] [=*Synaptychus* BASSE, 1952 (3, p. 548) (*non* synaptychus FISCHER, 1882, p. 377, used as morphological term), **"Synaptychus spiniger* TRAUTH" (3, p. 548, fig. 12,*19*), =*Striaptychus spinigeri* TRAUTH; OD]. Thin-shelled synaptychi with outer surface generally striate or concentrically waved and may bear granules. *U.Cret.*, Eu.

Laevilamellaptychus TRAUTH, 1930 (35, p. 336) [**Trigonellites ceratoides* OOSTER, 1857 (21, p. 16, pl. 6, fig. 6-8); SD MOORE-S.B., herein]. Diaptychi resembling *Lamellaptychus* but outer surface nearly smooth. *U.Jur.-L.Cret.*, Eu.——FIG. 558,*4*. *L.* sp., U.Jur., Arg.; exterior of valve, ×1 (TRAUTH).

[**Laevicornaptychus** TRAUTH, 1936 (42, p. 28); *nom. nud.* because published subsequent to 1930 without indication of type species. *L.Jur., ?M.Jur.*, Eu.——FIG. 557,*2*. *L.* sp., L.Jur., Ger.; ×2.7 (TRAUTH).]

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INDEX

Names included in the following index are classified typographically as follows: (1) Roman capital letters are used for suprafamilial taxonomic units which are recognized as valid in classification; (2) italic capital letters are employed for suprafamilial categories which are considered to be junior synonyms of valid names; (3) morphological terms and generic and family names accepted as valid are printed in roman type; and (4) generic and family names classed as invalid, including junior homonyms and synonyms, are printed in italics. Page numbers printed in boldface type (as **L257**) indicate the location of systematic descriptions.

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