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G. KENNETH JENKINS

COINS OF PUNIC SICILY*

Part 4 **

CARTHAGE SERIES 5-6

Introduction

As already stated in part 3 it seems clear from the evidence of hoards that Carthage series 5, Melqart head/horse head, should be roughly of the same phase as the Syracusan coins of Agathokles with Kore head/Nike and trophy, minted most probably after Agathokles' return from Africa and in fact between the years 305 and 295 B.C. For a summary of early third century hoards containing Carthage series 5 coins, see the table of hoards at the end of this instalment. It is evident enough that Carthage series 5 and the Agathokles «Nike» type tend to coincide. This conclusion is set off by a very slightly earlier hoard, Pachino 1957 (IGCH 2151), of the late fourth century, which contains neither the Agathokles Kore/Nike type nor the Melqart head/Horse head, but only the preceding phase of each mint – from Syracuse the quadriga tetradrachms of Agathokles and from Carthage series 3 Kore head/Horse head. On these general reckonings we may assume that Carthage series 5 should start about 300 B.C.

There is no easy way of deciding how long a series is involved; if it is accepted – as will presently be argued – that Carthage series 5 is to be envisaged as a parallel production by two separate mints, this will in any case tend to telescope the possible duration of the series. Provisionally we may think of a period of about a decade for the whole series, in which case it would come to an end by about the time of Agathokles' death (289 B.C.). Third century hoards containing series 5 do not, apparently, include any Sicilian coins later than Agathokles.

That in broad terms series 5 must be defined as two parallel series seems virtually inevitable. In the first place we have a definition by legends. Series 5 a is the mint of the army signed 'MMHNT or 'MHMHNT (People of the Camp). Series 5 b is the mint of the «quaestors» signed MHSBM. The only complication is that a few issues from the mhsbm mint are signed 'mmhnt instead but these as we shall see are clearly exceptional and in fact form an integral part of the mhsbm mint series.

The relative representation of the two series in hoards gives little indication as to the relation between the two series. In the Cefalú hoard there are five specimens of each; in the Megara Hyblaia 1967 hoard there are eight 'mmhnt and 14 mhsbm speci-

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mens; in the 1971 hoard there are four 'mmhnt and 12 mhsbm. From these samples there is no significant difference of wear between one series and the other, and so far as quantities go the presence of more mhsbm pieces in two of the hoards may simply reflect the fact that the latter was probably minted in greater quantity. While the figures for obverse dies are about equal, the reverse dies are twice as numerous for the mhsbm mint. Series 5 a – Obv. 20 Rev. 39. Series 5 b – Obv. 21 Rev. 81.

The division into two series seems further emphasized by a sharp distinction of both style and fabric. The flans of series 5 b are noticeably more compact than those of 5 a. The stylistic difference is most obvious from the reverse type. In series 5 a some horse heads here placed at the beginning as untypical have some connexion with a type which occurs briefly in series 3 a nos. 176 etc. where similarly the horse's shaggy mane is parted into two lines. But the dominant style of 5 a is a horse head set on a rather long neck with curving outlines, the throat bulging out and the truncation usually deeply curved in to balance. The forceful and swaggering character of this horse head bears a relation to a type of head which had already appeared sporadically in some issues of series 3 (nos. 215-216) as there remarked. This style becomes the normal one of series 5 a, with many interesting variants. The contrast with series 5 b could not be more extreme. In 5 b the horse head has a much simpler and more austere aspect, the neck is short and has none of the curvaceous character of 5 a, the throat does not bulge out and the truncation though varying in shape from die to die is often a quite shallow curve. Moreover the head typical of 5 b has no resemblance whatever to any style known in the previous series 3.

The distinction between series 5 a and 5 b is finally completely confirmed by the different styles of the Melgart-Herakles heads. In neither series is the head of so entirely homogeneous a style as the reverse, but on the whole it is clear that series 5 a has all of the more exuberant and lively examples, matching the style of the horses, while the heads of series 5 b are quieter and more restrained. All this goes to show that we have the work of two quite separate groups of engravers. Obviously enough, for the Melqart-Herakles heads they were drawing largely on prototypes from the coinage of Alexander the Great though without slavish imitation. The difference in the taste of the two groups of engravers may of course simply reflect the chance of which types of Alexander coins happened to come into their hands. In series 5 a the models tend to be those of eastern Alexander mints - Tarsus, Alexandria, Sidon, at all of which before Alexander's death a rather rich style developed; there is also some influence from Babylon. This contrasts strongly with the rather plainer style of Alexander's early Macedonian issues (also at first widely copied in the near east); Carthage series 5 b however shows more traces of these Macedonian styles, also with the addition of some elements from Babylon.

The clear differences between series 5 a and 5 b seem to speak for themselves. While there exists the bare possibility that the two series might be successive rather than parallel there is no indication as to how a transition could be made from one to the other. On the whole it seems much better to think of a parallel issue and of a

mint for the army and another for the quaestors (even allowing for the few exceptions mentioned).

As regards the legends, series 5 a has exclusively 'MMHNT/MHMHNT. This legend first appeared in series 3 and thus, as was shown in part 3 of this publication, at c. 320 B.C. Series 1 during the late fifth to early fourth century had by contrast only the simple MHNT. 'MMHNT «people of the army» is an expression involving the term M (people) used in the same way as it is in Phoenician inscriptions to denote the population of a named city; examples can be cited for Tyre, Sidon, Carthage, Gaulos, Ebusus, Lepcis, Caralis, Sulcis, Bithia, Lixus ¹. In one inscription it is a term used not for a city but for a temple, the people of the temple of Melqart at Carthage ². Acquaro ³ has lucidly distinguished between the significance of the term 'M as in 'M QRTHDST, and the term B'L as in the legend B'L SYS (and perhaps B'L 'GDR etc.) ⁴. 'M conveys the sense of the people in its capacity as a popular assembly; B'L on the other hand should signify the individual citizen with full rights. Thus in the case of 'MMHNT' we gain the impression that the army in Sicily appears to have been constituted at this period somewhat on the lines of a city or republic with a popular assembly, almost a separate entity within the Carthaginian territory ⁵.

In series 5 b by contrast we have the first and indeed the only use on coins of the term MHSBM. How is it to be interpreted? That it means basically «financial controllers» is not now in doubt ⁶. But are these officials purely and simply the «paymasters of the army» ⁷? – if so it seems strange that the army is not mentioned; and although there is the brief interpolation of a few 'MMHNT issues in the series (nos. 360, 370–374) otherwise exclusively signed MHSBM, this hardly seems a conclusive reason to determine our reading of the legend MHSBM as such. The word MHSBM was not attested otherwise than on the coins until the discovery in 1966 of

- ¹ Cooke, Textbook of North-Semitic Inscriptions no. 9, 10; Moscati, Riv. Studi Orientali 43, 1968, 1–4; Fantar, Antas, Les inscriptions p. 58 ff.; Acquaro RIN 1974, 77–81.
- ² CIS 264. 'M is also used more generally for «people of the land» ('M 'RṢ)) in the rather older Yehawmilk inscription from Byblus, Cooke Textbook no. 3 (V–IV century B.C.).
- ³ Acquaro RIN 76, 1974, Note di epagrafia punica I pp. 77–82. For B'L = citizen(s) cf. CIS 120 (a citizeness of Byzantium); Cooke Textbook no. 10 (citizens of Hammon), no. 54 (a citizen of Maktar); also RES 163–164, 505, 679, 942. Moscati, Riv. Studi Orientali 43, 1968, p. 2, points out the distinction between an élite (viz. a senate) and people clearly shown in inscriptions from Lepcis (Levi della Vida, Rend. Lincei 1955, 550–561).
- 4 However the term often read as B'L on coins of Gades, Sexsi, Lixus, Tingis, is interpreted by Solá Solé as P'L («obra, obra acunada» thus = mint or coinage), cf. Sefarad XXVII 1967, 16 ff. and Numisma VIII 35, 1958, 17.
- ⁵ Acquaro RIN 1974 p. 80 note 20 notes as a parallel a resolution by the army in an African inscription (Fevrier, Cahiers de Byrsa 6, 1956, 22. 25).
- ⁶ Bisi, Annali 16–17, 1969–1970, 95 note 96, citing the derivation of the word, which incidentally was not given by Müller.
- ⁷ Bisi op. cit. 93 says «mhsbm magistrati incaricati della paga alle truppe simili ai quaestores romani»; but it is difficult to see why they have to be military.

a new inscription at Carthage, dating probably to the early second century B.C. 8; this inscription records the opening of a new street in the city, mentions the collaboration of diverse classes of the people, and imposes fines for damage to the inscription which would be payable to «our MHSBM». The latter are clearly officials charged with the public finances, on the general analogy of Roman quaestors, as Dupont-Sommer remarks. It is known from Livy that there were at Carthage magistrates to whom he refers precisely as «quaestors» and whose importance in the state was such that they had the right of automatic entry on expiry of office to the all-powerful *ordo iudicum* 9. Were the MHSBM of our coins these same «quaestors» or were they some purely local officials?

It is of course known that most of the Phoenician cities in the west had similar constitutional features and that for instance there were suffetes (shofetim) not only at Carthage but at Gades and elsewhere, including many smaller towns in Africa; there is also mention of a «quaestor» at Gades ¹⁰. Likely enough the Punic cities in Sicily had similar institutions. However there is no indication from the coins that the MHSBM we are concerned with were any kind of local magistrates, and it seems unavoidable to reflect that the coins are those of the Carthaginian state and not of any local city. Should it not therefore follow that the MHSBM on the coins are indeed the «quaestors» of the Carthaginian state? No doubt it fell within their scope to provide pay for the army, *inter alia*, but there seems little indication that they were merely «army paymasters» and they must surely have had wider responsibilities as civil magistrates also. If it were otherwise, there seems little point in the distinction of the two kinds of legend on the coins.

While a coinage in the name of the «people of the army» still went on (series 5 a), it is perhaps relevant to observe that it was at precisely this time, c. 300 B.C., that the civic coinages of SYS and RSMLQRT had apparently come to an end. At the same date we have the appearance of the Carthaginian coins signed MHSBM. We can only speculate whether these events were at all connected – as if the «quaestors» of the Carthaginian state were in a general financial sense somehow filling the place left by civic authorities which had ceased to emit coins? If so, it may be a sign of some closer and more direct control of the Sicilian territory by the Carthaginian state.

Types

There is little need to discuss again here the type of the horse's head the main and most consistent type of the present and preceding series (ser. 3). In part 2 it was mentioned that, following Ferron and others, the horse's head is to be regarded as an

⁸ Dupont-Sommer, CRAI 1968, 116-132; the date of the inscription is suggested in a final note by Carcopino.

⁹ Gsell II, 201, 275.

¹⁰ Gsell II, 193 ff.

emblem connected with Ba'al Hammon ¹¹; in part 3 reference was made to a more recent discussion by C. Picard where it was argued that the possible connection with Ba'al Hammon does not of course exclude the connection with Tanit-Juno as indicated by Vergil ¹². So far as concerns series 5, we now find the horse head coupled with the head of Melqart, with whom it has no direct connection. This underlines the fact that we must evidently regard the horse head as it appears on the coins as an element of symbolism which is used independently and by no means as intimately linked with the corresponding obverse type, such as the Kore of series 2–3. The horse is not a representation often found on Punic stelai, though there are a few examples from El Hofra; the commentary on those stresses the solar nature of the horse ¹³, also mentioning its relevance to Hadad (Ares).

As regards the head of Melqart-Herakles which dominates series 5, there is at least no problem. It is well known that Melqart, the chief god of Tyre, was assimilated by the Greeks to Herakles, and there are plenty of subsequent examples of a purely Greek Herakles serving as equivalent for Melqart. The present coin series must be the first example of this. It seems doubtful however whether we can see any specific historical or cult reasons for the adoption of the Herakles type – from the coinage of Alexander, as mentioned above. It seems unlikely that historical developments at Carthage at the end of the fourth century which could help us to account for the Melqart type; there appears to have been some political change after the defeat of Bomilcar's attempt at tyranny (308 B.C.), which resulted in the supersession of the kingship and brought in the heyday of oligarchic power which made Carthage «a sort of Venice of the ancients, an aristocratic republic» ¹⁴. But it seems difficult to use this as any kind of explanation for the production of coins with the new type in Sicily, especially as at Carthage itself the coinage continued to make use of the Kore type as before.

The cult of Melqart had always been followed at Carthage as at other Phoenician cities in the west, notably Gades ¹⁵. Although the bulk of our evidence on the cults of Carthage is that derived from the tophet stelai mainly concerned with Tanit and Ba'al Hammon, this may give a one-sided view when considering the importance of other cults, among which that of Melqart certainly held an important place. The temple of Melqart is mentioned in one inscription ¹⁶, and personal names which are compounds of Melqart are very frequent at Carthage (Abdmelqart, servant of Melqart – whence Hamilcar; Bodmelqart, in the hand of Melqart, whence Bomilcar) ¹⁷. Each year the Carthaginians sent offerings to the temple of Melqart at Tyre; a special

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11 SNR 1974, 27.
12 Karthago, XVII, 1976, 104.
13 El Hofra 197 ff.
14 Picard 1968, 125.
15 Gsell IV, 301 ff.
16 CIS 264.
17 Halff, Karthago XII, 1963–1964, 130 ('bdmlqrt); do., 95 (bdmlqrt).
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offering was sent in 310 after Agathokles' landing in Africa as in the panic of the moment the Carthaginians feared they had neglected the cult ¹⁸. It seems likely, as Picard thinks, that the Melqart cult attained a special importance at a later period and especially under the Barcids in Spain. However none of this suggests any special reason why the Herakles-Melqart head should suddenly appear on Punic coins minted in Sicily around 300 B.C.

Since in fact it is beyond question that the type of the coins was adapted from the coinage of Alexander (and not from any other Greek prototype) the explanation is probably quite a simple and practical one. Earlier Carthaginian coins (series 2-3) were largely modelled on the prototypes provided by the coins of Syracuse, the great western power. Before the end of the fourth century, the impact of Alexander's conquests had changed the world and his coinage quickly came to dominate Greece and the near-east. Carthage remained in close touch with her metropolis Tyre - where a Carthaginian embassy was present at the time of Alexander's siege 19 - and must have been fully cognisant of the new developments. Possibly too the fall of Tyre gave the Carthaginians some impulse towards regarding themselves as now in a sense filling the vacant place as leader of the Phoenician nation. At all events they seem at this period to have had a wider vision of themselves as a Mediterranean «great power» dominating the west, complemented in the early third century by an alliance with Ptolemy in the east 20. In the circumstances, what could be more logical for Carthage than to use for their own coinage the new model of «great power» coinage, that of Alexander himself?

The new prototype coins were not hard to seek in any case, as a number of Sicilian hoards of the period contain specimens, showing that the Alexander coins were reaching Sicily as well as other regions of the mediterranean. In view of Carthage's wide commercial connections, not least with Phoenicia, where several mints had been pouring out Alexander tetradrachms for some time, it is not a little tempting to think that Carthaginian trade may have done much to bring such coins to the west. Sicilian hoards of our period containing some Alexanders are:

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IGCH 2151 Pachino 1957 (3 Amphipolis; 3 Babylon, two of which are after 317 B.C.; Myriandros; Arados)
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IGCH 2154 Cefalú (Amphipolis c. 318)

IGCH 2180 Megara Hyblaia 1966 (Babylon; Lycia-Pamphylia)

IGCH 2183 Capo Soprano (Myriandros)

IGCH 2191 Syracuse 1927 (Amphipolis; Tarsos)

Other hoards containing Alexander tetradrachms, of which we do not have details, are:

IGCH 2159 Buccheri 2160 Aidone 2186 Pachino 1921

¹⁸ Diod. Sic. XX. 14.

¹⁹ Picard 1968, 167.

²⁰ Picard 171 ff.

In addition to these, a new hoard has been reported («Sicily 1976/77), which contained a number of Carthage series 3 and 5, Agathokles quadriga tetradrachms, Athens IV c tetradrachms, but most of all a large number («300+») of Alexander tetradrachms, among which the Alexandria «rose» issue (Demanhur 4610) was said to be very prominent, though there is reason to believe that numerous other varieties of Alexander coins were probably included also. This new hoard of which few details are yet known is of special interest simply on account of its profusion of Alexander coins, never before met with in a Sicilian hoard. Another new hoard («S. E. Sicily» 1977) also contained many Alexanders of a variety of mints, and at least one Alexander came in a very recent hoard («S. Sicily 1978»). From the information we have so far, then, it is clear that there was an abundance of possible prototypes from numerous Alexander mints for the engravers of Carthage series 5 to draw on.

Commentary

Series 5 a (Plates 1–6) Nos. 273–275

It is not easy to find any plausible position for this short sequence and it is here given at the beginning of series 5 a largely for convenience. The die-linkages are as follows:

O 86 O 87 O 87 R 227 — R 227 R 228

The Herakles head of O 86–87 are not particularly close to any others of series 5 a although it would be clear from the style alone that it is to this series that they must belong. The peculiar rendering of the horse's mane on R 227 with a parting is a feature that recalls the horse head of 176, 178 in series 3, though without any close stylistic resemblance apart from that. The sudden contrast with the «curvaceous» horse of R 228 is very striking. The latter, anticipated in series 3 (R. 187) is the typical rendering in series 5 a. The general shape of the horse head, also the palm tree with raised branches, recall perhaps those of 224 (series 3).

The die-links of this group are as follows:

In this die-linked group two of the reverses (R 229–230) are of the normal style of series 5 a. The other two are totally different (R 231–R 232); their appearance is rather like that of 267, 268 in series 3 d. There as in the present case, the confident sculptural modelling of the normal type is absent and the effect is flat and scrappy. Again like 268 of series 3 our R 231 changes direction to the right. On both R 231 and 232 it is characteristic that the hair on the horse's forehead is shown parted to left and right below the rising tuft on top of the head; this arrangement is strongly reminiscent of the treatment found in many of the series 3 dies of various styles (e.g. 148, 254) but one which is never seen with the curvaceous style either in series 3 (216) or in series 5. The stylistic diversity of R 229, 230 as against R 231–232 is further emphasised by the comparable difference in the style of the epigraphy, the neat lettering of the former and the rather sprawling letters of the latter in both of which the final *tau* overlaps on the horse's truncation.

With the reverses appear marks in the field. On R 229 is a fulmen symbol, never found elsewhere on Carthaginian coinage, nor in Carthaginian material of any other kind ²¹. This was doubtless copied from Greek coinage such as the pegasi of Ambrakia, Corinth and Syracuse, but is of a distinct form ²². On the other three dies of this group we have in the field a triangle of dots, such as that which was typical of the gold coins minted at Carthage in the middle and later fourth century. Such a mark does not remain exclusive to the gold however and was also used on bronze coins minted in Sicily during the early third century ²³. Outside the sphere of Carthaginian coins it is difficult to cite the use of such marks except from certain of the eastern mints of Alexander – Tarsus (Demanhur 1974, 2187 etc.), Amathus (Demanhur

²¹ It is apparently unknown on the stelai. – If the fulmen had any connexion with Punic religion, it could be related either to Baal Shamin or to Resef (cf. Gsell IV 294, 326–327) whose very name signifies the «flame» or «lightning-flash» and who was incidentally identified with the Greek Apollo (especially in Cyprus, cf. CIS 89, trilingual inscription from Idalion).

²² Cf. Cammann, ANS NNM 53, no. 47.

²³ Jenkins-Lewis group III, also (bronze) appendix 3.

2708, 2710) Damascus (Demanhur 2904) and Aradus (Demanhur 3460 etc.). The triangle of dots as we have it on the tetradrachms (277) cannot in fact form any significant link with the gold minted at Carthage (Jenkins-Lewis group III) and which according to the dates adopted by Jenkins-Lewis (350/320 B.C.) was abandoned after group III for other forms of marking by the time this tetradrachm was minted.

With O 89 the caduceus symbol makes its only appearance in this series below the Herakles head, though it is prominent in series 5 b as a symbol on the reverse. The importance of the caduceus as a Punic religious symbol has been commented on in part 3, relating to this symbol as it comes in series 2/3. In series 5, as will be discussed below, the symbols which occur seem more probably related to the symbols which are typical of Greek coinage practise than of Punic religion, and this may be the case here. At all events there is no obvious connection of the caduceus with the cult of Melgart.

The style of O 89 seems strongly influenced by the Alexander coins of e.g. Alexandria and Sidon of a generation earlier. Note the shape of the lion's mouth as it curves around Herakles' ear, and projecting forward on to the cheek, a central feature of many of the eastern mints of Alexander. Around the lion's mouth is a stylised «frill» of loose flesh; this corresponds to a real feature of the lion's mouth in nature, visible when a lion's mouth is open as a frill of dark flesh contrasting with the lighter colour of the fur; it is feature well noticed by Greek artists and emphasised e.g. in the lion-head spouts from Himera and elsewhere ²⁴, on the lion-head coins of Leontinoi ²⁵ and elsewhere, also on the lion-skin worn by Herakles at Kamarina ²⁶. This «frill» is much emphasised in the dies of series 5 a but is by contrast a rarity in series 5 b where different Alexander prototypes are being followed.

O 89 is followed by O 90, closely derivative from it, and by O 91, 93 where the general pattern is remarkably similar.

The d	ie-links are		Nos. 284–295
O 91 R 235 club	O 92	O 93	O 94 R 242
R 236— corn ear	-R 236	R 240 R 241 corn ear	corn ear R 243 double corn ear
	R 237 corn ear		

²⁴ Langlotz-Hirmer, Art of Magna Graecia pl. 76-80.

²⁵ Kraay-Hirmer, Greek Coins, 16.

²⁶ Westermark-Jenkins, Coinage of Kamarina, esp. pl. 12-16.

In this group the majority of the reverses are marked by symbols. The club on R 235 here makes its only appearance in series 5 a whereas it is typical of many dies in series 5 b (nos. 326–346). The club would be apt enough in connexion with Herakles-Melqart but perhaps essentially as an attribute belonging to his Greek iconography. But the predominant symbol in the present group is the corn ear ²⁷, usually standing up prominently in the left field, though once very unobtrusive (291) and once in the form of a double corn ear on a reverse which is also unusual in that the horse head faces right and is of divergent style (295). Another exceptional detail is one die where the extra foliage is placed around the trunk of the palm tree (294).

The Herakles heads O 91 and O 93 as mentioned already follow closely the pattern of 89–90 with its «Alexandrian» influence pl. 14, B, C). O 94 has some resemblance to certain late Babylon issues e.g. Oxford 1406 A.

Summary of die-links:

In this phase of series 5 a there are no symbols. The legend is normally 'mhmhnt varied only once to 'mmhnt (nos. 310–311). It is not easy to find plausible Alexander prototypes for the obverses of this group. In O95–97 we find a rather heavy-featured fleshy style that really has no close parallels in the Alexander coinage: it has something, but not much, in common with some late examples from Sidon of the years 311, 310 B.C. ²⁸. O98 is almost certainly nothing else than O97 with a number of details re-engraved. With it is linked a strange die, O99, which is exceptional in representing the lion scalp in a pattern where the row of tufts protrudes from a scalp cut off in a vertical straight line instead of in the usual curved form; this may reflect the characteristics of certain Phoenician mints of Alexander such as Aradus and Carne (pl. 14. E), though the scheme is one which, as initially at many other eastern mints, derives ultimately from the early issues of Macedonia (pl. 14. A). Quite another style appears at

²⁷ The corn ear though rare is not entirely unknown on Punic stelai, C. Picard, Karthago XVII, 1976, 109 s. v. épis (examples of III/II c. B.C.).

²⁸ Newell, Dated Alexander Coinage of Sidon and Ake, pl. IV. 16, 18.

²⁹ E.g. Jennkins-Lewis group X b, with dot on leaf..

O 100; here the smooth part of the lion's scalp surface from which the tufts depend has more prominence than on most previous dies. O 101 and O 102 are again different, the arrangement of the lion scalp is less rigid but has a restrained array of tufts, O 101 having a rather small face and weak nose, whereas O 102 is far more powerful and expressive. These obverses are linked to the foregoing «heavy» group by means of R 253 and R 258. Finally there is the work of O 103–105 which is far more exuberant; in O 103–104 the curls above the forehead as well as the tufts of the lion-skin have a certain abandon. To these O 105 is closely related though the facial forms and expression come close to those of O 102. In none of these is it really useful to try to seek parallels from the Alexander coinage, and one can only point to the later issues of Babylon for something of a general analogy (e.g. Copenhagen SNG Macedonia, pl. 22).

The style of the reverses, including their epigraphy, remains comparatively regular apart from variations which merely facilitate the distinction of individual dies.

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Nos. 325-375
Summary:
O 106
          O 107
                    O 108
R 266-268
(club)
R 269-
         -R 269
(club)
          R 270-271
          (club)
          R 272 — R 272
          (club)
          R 273-274
          (club)
O 109
           0110
                    OIII
                             0112
                                          O 113
                                                      O 115
                                                                0114
R 275,278
                                          R 289, 290
                                                      R 298
                                                                R 297
                                                                 (caduceus)
                                          (caduceus)
(club)
                                                      (poppy)
R 279 --- R 279
                                                      R 298'
                                                      (astragalos)
          R 281
                                                      R 299, 300
           (pellet)
           R 282 — R 282
                                                      (astragalos
                                                      + pellet)
                                                                 0116
           (club)
                    R 283 — R 283
                                                                 R 304
                                                                 ('mhmhnt)
                    (caduceus)
                    R 284 — R 284
                                                                 R 305
                                                                 (mbsbm)
                    (astragalos)
                             R 285 ---- R 285
                              (caduceus)
                             R 286-287
                              (astragalos)
                              R 288 —
                                        -R 288 ---- R 288
                              (astragalos)
                                         R 292
                                          (astragalos)
                                          R 293 —
                                                   --- R 293
                                          ('mmhnt)
                                          R 294-296 R 301-303
                                                      ('mmhnt)
                                          (caduceus)
```

Series 5 b - MHSBM (Plates 6-14)

Series 5 b falls into two distinct phases. The first is marked by the occurrence of a number of symbols and other marks on the reverse – club, pellet, caduceus, astragalos, poppy (recut as astragalos), astragalos and pellet. The legend in series 5 b is always MHSBM except that towards the end of the first phases come a few intrusive issues marked 'MMHNT. The second phase has no symbols or other marks, but continues to bear the legend MHSBM without exception. In principle there is nothing that enables us to decide whether this second phase might not in fact precede the first phase as we have arranged it. However the arrangement as given seems plausible; it seems natural to place near to the abnormal 'MMHNT issues an obverse O 116 which is coupled with a reverse 'MMHNT reverting to MHSBM and next to O 116 has been placed a very similar obverse which has only MHSBM with the remaining no symbol issues following this.

The first phase, whith symbols, is fairly well die-linked. First are placed three obverse O 106–108 where the reverse in most cases carries the club symbol. There is no die-link from this to the next group but there the club symbol continues with the first three obverses O 109–111. At O 111 there begin a number of issues with either the caduceus or astragalos symbol. One reverse first marked by a poppy (R 298) was recut to make an astragalos (R 298'), others have astragalos with a pellet half-concealed behind the horse's mane in a manner reminiscent of other Carthaginian coins. The general sequence is attested by the history of R 282 which appears more worn with O 111 than with O 112, ond R 293 which is more worn with O 115 than with O 113. O 114 is an isolated obverse with its own single reverse bearing a caduceus and is to be placed in the same general context though not die-linked.

The abnormal 'MMHNT of R 293 is used first with O 113 then after transferred to O 115 which then used three other 'MMHNT dies (R 301–303), while O 113 finished its career by reverring to MHSBM issues. The abnormality of those 'MMHNT issues in series 5 b is to be emphasised; only some five dies in all have this legend (R 293, 301, 302, 303, 304), and the last of them precedes a MHSBM die with O 116. This is a minute proportion out of a total of some eighty reverse dies used for series 5 b as a whole, all the remainder of which are signed MHSBM. The exceptional 'MMHNT' dies (nos. 360, 370–374) were certainly made in the same workshop as the great mass of the MHSBM dies; the style of the horse head is in every way characteristic of the mint of series 5 b. The temporary change of control of the mint which seems to be attested by the way in which the long series of MHSBM is interrupted by a handful of 'MMHNT' dies must presumably be allowed the mean some-

thing – possibly suggesting that for a moment the «civil» mint was required to produce coins for and the name of the army. It is of course quite impossible to guess why or in what circumstances any of this could have taken place.

In any case the two series 5 a and 5 b are clearly defined and distinct, and any notion of trying to arrange the whole of series 5 so as produce a first series with MHNT followed by a second group with MHSBM, in a simple succession, is quickly doomed.

The occurrence of the symbols on series 5 b in the main serves to add one more factor to the distinct character of the two series. In two cases it is true we find an occurrence of the same symbol in each series; there is a club in 5 a but only once (286) and there in a way that distinguishes it from the numerous club dies of 5 b, being shown with the handle downwards whereas on 5 b it is always upwards. Also the caduceus, common in 5 b occurs once in 5 a on O 89. For the rest the symbols in 5 b are distinct. By contrast with earlier series where symbols occur which seem to have a relation to Punic religion, those which are found in series 5 a and 5 b seem to be of another kind. The caduceus, as remarked above, is an important symbol in Punic religion and could so be regarded in series 2/3 30, but here it is merely one of other symbols, all of which are known in the repertoire of Greek coins but have no specific Punic connotation. Thus the corn ear and astragalos can be found at Gela, the latter also at Abdera; the club, cornear and astragalos at Ainos; the astragalos, club, cornear, fulmen and caduceus on various Corinthian coinage 31. It seems that in series 5 we should regard the symbols as evidence of the adoption of Greek mint practice in line with the adoption of the Greek Herakles type from the Alexander coins to stand for Melgart. This fits well at a period when hellenisation was specially strong in Punic life and culture generally.

The distinction made above between two mints is born out by the fact that, as mentioned above, the Herakles heads in series 5 b differ widely from those of 5 a. On the whole the style of the MHSBM mint is simpler and less elaborate. The heads are smaller, the lion-skin is treated differently in several respects. For instance the mouth of the lion where it encircles the ear is not adorned with the stylised «frill» of flesh which is always prominent in 5 a, but is simply a plain edge – the single exception is O 115. Also it is quite usual in 5 b for the part of the lion-skin where it is cut off behind Herakles' neck to be depicted with emphasis and shown with folds as if of drapery, making the head almost into a draped bust – this neckpiece is specially noticeable on O 108 and also on O 109, 112, 115, 118, 121, 123. Even where it is not so clear this neckpiece still seems usually to be present, and it is a treatment quite distinct from that of series 5 a where there is simply an abrupt cut-off of the lion-skin with little attempt to make it into a drapery-like feature. (In this the only exception is O 95 of 5 a, which is indeed closer to the 5 b model). It is hardly

³⁰ Cf. SNR 1977, 16.

³¹ Jenkins, Gela, no. 205 etc., 541 etc.; May, Abdera group CXV; May, Ainos, no. 8, 125, 325, 442; Cammann ANS NNM 53, no. 12, 23, 26, 47, 67.

possible to comment on the treatment of the lion's paws as a criterion as this feature is often enough not complete on the flan, but in general we see only the nearer paw the other being indicated very sketchily if at all (e.g. 357, 367); whereas the opposite was the tendency (by no means regular) in 5a (e.g. 281). The general difference in character, the treatment of the lion's tufts and the modelling of the Herakles face, are sufficiently different to call for little comment.

The treatment of the lion-skin in series 5 b is best exemplified by O 108 (334); it seems to suggest that coins of this type were influenced by prototypes from the early Macedonian mints of Alexander (notably Amphipolis, pl. 14 A). If so, the engravers of these Punic coins were simply making their own adaptation and the result is distinct enough from the Amphipolis coins in any case. Another prototype which seems to have had some influence on series 5 b would be the mint of Babylon, where in its earlier phase (to 317 B.C.) the typical treatment of the lion's mane is in a long swag curving downwards (pl. 14 F); and we see something like this on O 110, 116, 117. Then in the later (post 317) phases at Babylon there were quite other styles prevalent (pl. 14 G) which perhaps influenced Punic dies such as O 124, 125. Apart from these examples, it is not easy to find Alexander coins which are similar enough to our series to be worth mentioning. In series 5 b, only O 115 has some affinity to the «Alexandrian» model of series 5 a (e.g. O 91, 93).

Catalogue

Legends

'MMḤNT			CI SAL ALIA
273	もり月ツツい	301	77A4340
310 360	371–373 see below	303	ド9月9月かり
'МНМНМТ	£194240	304	47A434C
275	±: 0 1.€.1	305	64A4390
277	म १ मि भ व भ प	308	65月4790
278	みろ月かりかい	306	H1A4340
281	少9月4月40		
285	利用サタサン	310	f5月550
286	チケーサラサン	314	4A 4740
287	か月外タサン	315	り月旬まかい
	1794340	316	5月4月40
289	7 147X50	317	4594340
200	CLAMALL	318	45A7340
290	イクタケヨケロ	320	x5A5790
291	万月月岁月かり		
292	F7A4940	322	649434U
293	メク目 535°	мӊѕвм	-A.
294	£49447	325	797A4
	.*	326	49-4 HA
296	87月474V	327	49+11
297	47A4340	328	79114
298	が月かヨサロ	330	595月4
299	月ケヨケロ		
300	イト月 岁习りひ	331	494月4

332	49494	361	79794
334	竹乡村月四	362	79 7A4
335	397 A4	363	771144
336	797月4	364	49471149
339	497月4		
341	497A4	365	497月9
342	79774	367	49494
	49494	368	59nA4
343		'MMḤNT	
344	49774	371	から月ケケン
346	997A4	372	か月竹竹い
347	4947 A	373	か月から
349	794月7	'МНМН'Т	1711
350	494A4	374	110404
351	79194		力多月四月廿一
353 = 369	49 47 HY	MḤSBM	_
	•	375	49494
	- a - n Dlu	376	797A4
355	73784	379	47977
356	79797		
357	7911HY		
360 = ₃₇₀	49944		

380	4941947	393	790H4
381	49494	396	79794
382	ひるとはい	398	79714
383	カタカはサ	399	497147
384	79 71/47	400	9784
385	79 71A41	401	为94月刊
386	794月4	402	49794
387	49 4 14	405	79n
389	794月5	406	79494
390	79474	408	49794
391	794月4	409	794A4
392	494 A4	410	7977H47
		412	9247
		413	かるみはみ
		419	479 TH 947
		420	りタハ月ワ

Series 5 a

- 273 O 86 Head of Melqart-Herakles in lionskin with thick shaggy mane; dotted border. Long break across die.
 - R 227 Horse's head to left, with mane parted into two lines; on the right, palm tree with ascending branches; linear border. Legend 'mmhnt. Die break on neck. 16.78 * Glasgow Hunter 11
- 274 O 87 Head more compact, tufts of lion's mane parted.
 - R 227 Die of 273. Die break extended. 17.25 * Paris 2325
- 275 O 87 Die of 274.
 - R 228 Horse's head of different style with bulging throat, neat mane and more curving truncation; palm tree with compact bush of branches; dotted border. Legend 'mmhnt. 16.76 * MMAG * 43, 36 Syracuse
- 276 O 88 Head of refined style, tufts of lion's mane falling in a thick mass.
 - R 229 Similar, palm tree smaller; in left field, thunderbolt. Legend 'mhmhnt (partly off-flan).

16.88 * London = Sotheby 2. 5. 1905, 195

277 O 88 Die of 276.

R 230 Similar; three pellets in left field. Legend 'mhmhnt.

15.35 * Paris Luynes 1448

- Paris Vogué 650
- Platt collection A, 1930, 810
- 278 O 88 Die of 276.

R 231 Horse's head to right, flat sketchy style, very shallow truncation; palm

* MMAG = Münzen und Medaillen AG.

tree on left; three pellets in right field. Legend 'mhmhnt.

* Palermo

Similar, slightly smaller, tight curls 279 O 89 on forehead, neck more exposed. Below lion's paws, caduceus. Bar-shaped die break at 2 o'clock.

R 230 Die of 277.

16.96 * Gustav VI Adolf, late King of Sweden, SNG 46 =Sotheby 6. 7. 1921, 222

16.32 * London

Priv. coll. Y

Syracuse, Megara Hyblaia hoard 1967

280 O 89 Die of 279. R 231 Die of 278. 16.43 * Paris Luynes 1451

281 O 89 Die of 279.

R 232 Horse's head of sketchy style to left, locks parted on forehead, shallow curved truncation; on right palm tree; three pellets in left field. Linear border. Legend 'mhmhnt * Palermo

Closely similar to O 89 but tufts of 282 O 90 lion's mane straighter; caduceus below?

> R 231 Die of 278, 280. 16.66 Lewis (Jenkins-Lewis pl. 26, 10) 16.82 * London

283 O 90 Die of 282.

R 232 Die of 281.

17.30 Allotte de le Fuye 1925,

135 16.80 * ANS

16.82 ANS

17.12 Nav. 10, 353

Priv. coll. Y

Spink 1968

Plate 2

284 O 91 R 233	Similar to O 89–90, slightly larger, lion's mane with thicker tufts. No border. Horse's head to left, similar to R 229–230, truncation pointed in front. Dotted border. Legend 'mhmhnt? (incomplete) 16.51 * Priv. coll. Y = AC 12, 1075			16.65 - 16.73 16.78 17.30	Glasgow Hunter 13 MMAG list 326, 15, 1971 hoard MMAG 43, 37 Naples 4817 Schlessinger 26. 2. 1934, 375
	Die of 284. Breaks around neck. Horse's head smaller, truncation deeply arched. Legend 'mhmhnt 16.96 AC 12, 1074 16.37 Auctiones 5, 1975, 244 * Berlin Philadelphia 17.28 * Priv. coll. X	290	O 93	with th Dotted Horse's top, tru Legend - * 17.02 17.08	head massive, thick tufts on neation in regular curve. 'mhmhnt Berlin
1072	Die of 284. More worn. Similar, truncation is smooth shallow curve; club in left field. Legend 'mhmhnt - * Syracuse, Megara Hyblaia hoard 1967			- 14.30 17.40	Morgan 194 London Martinetti 805 (sic) Naples 4808 Pennisi seen 1977
R 236 288 O 92 R 236	Die of 284. Similar, palm tree larger; corn ear in left field. Legend 'mhmhnt Berlin 16.60 * Lockett SNG 1055 = Nav. 10, 354 16.76 London Paris 2328 16.78 Pennisi More expressive face, lion's mane in long vertical tufts. No border. Die of 287. 16.82 * Boston 499 16.34 London Lloyd SNG 1654 (NC 1925 pl. VII), Cefalú hoard Die of 288.	291		truncati corn ea 16.90 16.38 16.13 17.05 16.45	similar, at front tip of fon close to border, small r. Legend 'mhmhnt Cahn 68, 1763 Cambridge SNG 1495 London Lloyd SNG 1655 Münzh. Basel 8, 187 MMAG, 1971 hoard Nav. 6, 578 = Benson 800 Priv. coll. X Schulman 30. 3. 1936, 48 Syracuse, Megara Hyblaia hoard 1967 Yale = Ciani 17. 12. 1921, 99
10000	Similar, horse's throat more prominent, palm tree closer; corn ear in left field. Legend 'mhmhnt - * Burlington Fine Arts 201, 207	292		tree tall	, throat more bulging, palm er; in left field large corn ght. Legend 'mhmhnt

17.10 Glendining-Seaby III, 1185 293 O 93 Die of 290. 17.29 * Lewis CCCC SNG 428 R 241 Similar, tufts of mane longer; in left 17.00 SC * 1927, 1161 field corn ear slightly slanting. Syracuse Gagliardi 1001 Legend 'mhmhnt Plate 3 294 O 94 Compact head with tufts of lion's * Glendining 24. 11. 1950, mane thick and short. Dotted 1538 border. R 242 Strongly bulging throat and 298 O 96 Closely similar, smaller eye, lion's curvaceous truncation, tall palm tree jaw closer to ear. with extra foliage around trunk; in R 246 Similar, bulging throat, truncation left field large corn ear. more concave. Legend 'mhmhnt Legend 'mmhnt 16.52 AC 12, 1060 1742 * London 17.09 ANS 16.92 Nav.5, 2985 16.49 Boston 498 Paris 2329 16.77 Copenhagen 90 Hamburger 20. 2. 1928, 210 295 O 94 Die of 294. 17.20 Hess 226, 164 R 243 Horse's head to right, angular Hindamian 293 truncation; palm tree on left; double 16.83 * Naples 4806 corn ear in right field. 16.93 Naples S 8087 Legend 'mmhnt (?) 16.70 Paris Luynes 1452 16.53 * Naples 4818 Paris 2326 16.59 Nav. 5, 2986 Platt 1921, 122 296 O 95 Larger head; jaw of lion's mane with wide frill, compact row of tufts. 299 O 96 Die of 298 Dotted border. R 247 Similar, palm tree lower. R 244 Head to left; shallow arched Legend 'mhmhnt truncation, long mane; palm tree 16.80 Baranowsky 1929, 1565 = very close. Legend 'mhmhnt Brandis 381 17.12 Cambridge SNG 1497 * Bourgey 20. 12. 1921, 64 16.86 Feuardent 16. 11. 1937, 140 17.16 London 16.54 Galerie Monnaies de Genève, New York, 1976, 300 O 96 Die of 298 Hamburger 11. 6. 1930, 653 R 248 Similar, bulging throat, shallow 16.48 London Lloyd SNG 1647, truncation, palm tree not so close. Cefalú hoard Legend 'mhmhnt 16.70 * Naples 4807 16.20 Cambridge SNG 1494 * Private collection Y 17.28 * London 16.50 SC 1927, 1155 Mvers * LH = Leu-Hess.16.85 Naples S 8088 SC = Sambon-Canessa.Syracuse 24742, Mineo hoard 297 O 95 Die of 296 Syracuse, Megara Hyblaia R 245 Similar slightly larger, dense mane, hoard 1967 taller palm tree. Syracuse, Megara Hyblaia Legend 'mhmhnt hoard 1967

301 O 96 Die of 298 302 O 96 Die of 298 R 249 Similar; legend ends beyond R 250 Similar, truncation in regular curve, truncation. Legend 'mhmhnt legend ending beyond. * Berlin Legend 'mhmhnt Berlin 16.33 Cambridge SNG 1493 16.95 Princeton, Firestone 16.67 * Private collection X 16.50 * Private collection X Plate 4 303 O 96 Die of 298 308 O 97 Die of 305. Breaks on eye (Hunter) R 251 Similar, truncation in shallower R 256 Similar to R 249 but legend within curve, taller palm tree. truncation. Legend 'mhmhnt. Diebreaks by mouth. Legend 'mhmhnt 16.99 * Stockholm SNG 662 Berlin 16.77 * Glasgow Hunter 12 Syracuse, Megara Hyblaia Paris Smith-Lesouef 20 hoard 1967 Syracuse, Megara Hyblaia 309 O 97 Die of 305 hoard 1967 R 252 Die of 304. Flaw in field low left. 304 O 96 Die of 298 17.09 ANS R 252 Slightly smaller, truncation with 16.70 Cambridge SNG 1496 deeper curve, shorter palm tree. 16.53 * Gustav VI Adolf, late King Legend 'mhmhnt of Sweden, SNG 47 16.66 Nav. 5, 2987 16.99 Hague = Nav. 10, 352 = 15.90 * Private collection X Nav. 5, 2984 Syracuse, Megara Hyblaia 17.10 Hess 194, 166 hoard 1967 Nobleman 232 16.29 Naples 4809 Head with larger features, especially 305 O 97 Paris 2327 the eye; tufts of lion skin backward-16.50 Ratto 8. 11. 1928, 2926 turning. R 253 Head long-nosed, broad neck with Probably originally the same as O 97 310 O 98 truncation strongly curved; tall palm but reworked, notably the details of tree. Legend 'mhmhnt the lion's jaw. 16.83 Naples 4804 R 257 Horse head upright, truncation 16.88 * Private collection X curves to right. Legend 'mmhnt 306 O 97 Die of 305 16.39 * Nav. 5, 2982 R 254 Compact shallow truncation, long 311 O 99 Lion's jaw has large smooth area, mane tufts. Legend 'mhmhnt behind which straight tufts; large 17.70 Hamburger 27. 5. 1929, eye. 178 = Kondylis 207 R 257 Die of 310 17.11 * London Lloyd SNG 1643 * ANS 16.34 London formerly (rev. die break on palm tree) 312 O 100 Smaller features, especially the eye, 16.28 MMAG 1971 hoard tufts of lion skin attached to broad 16.80 Vienna smooth band behind ear. No border. 307 O 97 Die of 305 R 253 Die of 310. R 255 Long-tufted mane, broad-topped 16.79 ANS palm tree. Legend? Collignon 156

16.77 * Nav. 5, 2983

* ANS

- 313 O 100 Die of 312 R 258 Similar to R 253 but head slightly higher, shallower truncation. Legend 'mhmhnt 15.97 * Glasgow Coats 3457 315 O 101 Die of 314 R 259 Similar to R 256, legend ends beyond truncation. Legend 'mhmhnt
- 17.00 Brandis 379 15.43 * Naples 4799
- 316 O 101 Die of 314 R 260 Similar to R 258 but larger. Legend 'mhmhnt * Private collection Y
- 317 O 101 Die of 314 R 261 Similar to R 259 but smaller and truncation less arched, palm tree taller. Legend 'mhmhnt 16.75 Brandis 380 16.44 Copenhagen 89 Glendining-Seaby II 253 = Helbing 8. 11. 1928, 3719 17.14 LH 1956, 241 16.22 London
- 16.81 * Pennisi 318 O 102 Larger than O 101, tufts of lion skin more spread. Dotted border.

16.76 Naples 4802

16.90 Paris Luynes 1449

- R 261 Die of 317. Flaw on lower neck. 16.84 * London Lloyd SNG 1642, Cefalú hoard
- 319 O 103 Finer and richer in detail, especially curls above brow and tufts of lion's mane protruding sharply behind.
 - R 262 Large horse's head similar to R.258 less bulging throat and truncation more curved. Legend 'mhmhnt * Brussels 16.65 Cahn 84,470 = Hamburger 29. 5. 1929, 496

314 O 101 Head smaller, wide open eye, lion skin more compact. Dotted border. R 258 Die of 313. 16.04 * London Lloyd SNG 1645, Cefalú hoard

Plate 5

- 16.96 Hess 1954, 208 16.78 Hirsch 20, 446 = do. 14, 599 16.97 LH 1960, 107 16.74 London Lloyd SNG 1644, Cefalú hoard 16.65 * Naples 4805 16.93 Oxford SNG 2165 16.95 Rosenberg 8. 9. 1924, 229 16.89 Ward 361
- 320 O 103 Die of 319 R 263 Similar but more bulging throat and mane longer. Legend 'mhmhnt Palermo
- 321 O 104 Larger head, bolder details throughout. R 263 Die of 320 Bourgey 5. 12. 1932, 290 Feuardent 9. 6. 1913, 107 16.46 Delbeke 243 16.81 Gulbenkian 375 = Jameson 916 = Hirsch 19,63716.84 Hirsch 29, 870
 - 17.19 * MMAG 43, 35 16.84 Nav. 1, 3303 = Carfrae 357 = AC 13, 304
- 322 O 104 Die of 321 R 264 More compact, truncation more regular curve. Legend 'mhmhnt 16.77 * ANS 16.21 * Naples 8084
- 323 O 105 Similar, heavy face, lion's skin all denser and more compact. Dotted border.
 - R 264 Die of 322. 17.00 London = Glendining 23. 11. 1928, 184

16. 10 * Vatican 936 long tufts. Legend 'mhmhnt Berlin Plate 6 Series 5 b 16.74 * London Lloyd SNG 1651, Cefalú hoard 325 O 106 Head of Melgart-Herakles in lion skin, which has regular radiating 331 O 107 Die of 329 tufts, jaw without frill and flat R 271 Normal size; in left field, club neckpiece. rupright. Legend mhsbm R 266 Compact horse's head with shallow-Berlin curved truncation; palm tree on 16.43 Cambridge SNG 1491 right; in left field, club sloping 16.46 * MMAG, 1971 hoard outwards. Legend mhsbm 16.49 Ratto 1934, 262 = AC 12, 16.80 * Paris Vogué 649 1061 326 O 106 Die of 325 332 O 107 Die of 329 R 267 Similar, truncation more concave; R 272 Large head, long nose raised, thick in left small club sloping palm tree; in left field, large club inwards. Legend mhsbm sloping inwards. Legend mhsbm 16.29 * Paris 2340 16.50 * Cambridge SNG 1492 = Nav. 1, 3305 327 O 106 Die of 325 16.75 Copenhagen 92 R 268 Similar; in left field, club sloping inwards. Legend mhsbm * Berlin 333 O 108 Very compact head and lion skin 17.14 Egger 46, 2771 = with short tufts and neckpiece in Merzbacher 1910, 893 folds. 16.67 London R 272 Die of 332 Syracuse, Megara Hyblaia 16.82 Hamburger 27. 5. 1929, 179 16.57 * Naples S 8086 hoard 1967 Syracuse, Megara Hyblaia 328 O 106 Die of 325 hoard 1967 R 269 Similar; in left field, short club sloping inwards. Legend mhsbm 334 O 108 Die of 333 Glendining-Seaby III 1186 R 273 Small head, short palm tree; in left 16.95 * Pennisi field, small club sloping outwards. Legend mhsbm 329 O 107 Similar to O 106, face slightly 15.64 * London Lloyd SNG 1650, taller, tufts of lion's mane stop short Cefalú hoard of neck in line with lion's paw. R 269 Die of 328 335 O 108 Die of 333 16.61 * Naples 4815 R 274 Similar, club touching horse's neck. 330 O 107 Die of 329 Legend mhsbm R 270 Smaller, front of truncation lower; 16.60 * ANS = Sambon 19.12.in left field, club sloping outwards. 1907, 520 Legend mhsbm 16.10 Baranowsky VI 513

324 O 105 Die of 323

R 265 Horse's head taller and nose held

lower, steeply arched truncation,

17.17 Montagu I 809

16.75 SC 1927, 1156

16.04 Oxford SNG 2162

Plate 7

- 336 O 109 Similar but lion skin tufts longer, neckpiece less visible.
 - R 275 Truncation very shallow; club sloping inwards. Legend mhsbm 16.26 Cambridge SNG 1490 17.17 Glasgow Coats 3458 16.67 * Naples 4816
- 337 O 109 Die of 336 R 276 Larger, no symbol. Legend mhsbm 16.78 * Egger 40, 1270
- 338 O 109 Die of 336 R 277 Similar, head up more than R 276. Legend mhsbm 16.70 * Schulman 30. 3. 1936, 208
- 339 O 109 Die of 336
 R 278 Similar, head less raised than R 277;
 in left field, club near horse's nose.
 Legend mhsbm
 15.96 * MMAG, 1971 hoard =
 Genève 10. 10. 1977, 127
 Syracuse, Megara Hyblaia
 hoard 1967 (rev. flaw

across club)

- 340 O 109 Die of 336
 R 279 Similar but no symbol, truncation down in front. Legend mhsbm
 17.16 * MMAG, 1971 hoard
- 341 O 110 Broader head, tufts of lion skin cascading downwards, flat neckpiece, lion's jaw with frill.
 - R 279 Die of 340
 - Baranowsky 1934, 4674
 - Engel-Gros Paris 1921, 23

- 16.30 * Naples 4800 - Peus 280, 1972, 66 =
- Baranowsky VI 512
- 342 O 110 Die of 341
 R 280 Similar, truncation straighter.
 Legend mhsbm
 16.68 London
 16.00 * MMAG, 1971 hoard
 - 16.99 Pennisi
- 343 O 110 Die of 341
 R 281 Similar, truncation more curved; in left field pellet. Legend mhsbm

 * Private collection Y
- 344 O 110 Die of 341
 R 282 Head held lower, palm tree close; in left field long club sloping outwards. Legend mhsbm
 16.42 * MMAG list 326, 16, 1971
 hoard
 Syracuse, Megara Hyblaia
 hoard 1967
- 345 O III Similar to O 109 but tufts of lion skin reach to neck touching paw, jaw without frill.
 - R 282 Die of 344. Signs of wear below truncation.
 16.56 * London
- 346 O 111 Die of 345
 R 283 Similar, smaller especially horse's nose, truncation straighter; in field left, caduceus. Legend mhsbm
 16.74 * Paris Luynes 1455

Plate 8

347 O 111 Die of 345

R 284 Head of normal size, curved skin tufts denser, neckpiece with folds.

Legend mhsbm
17.20 * Pennisi

R 284 O 112 Head broader, face more ample, lion skin tufts denser, neckpiece with folds.

R 284 Die of 347

— Berlin
— Hartwig 1910, 687

17.17 * London Lloyd SNG 1653

17.40 MMAG list 351, 6

16.97 Naples 4811

ANS 349 O 112 Die of 348 17.29 * Naples 4810 R 283 Die of 346 Helbing 8. 9. 1928, 3718 16.57 Hess 202, 2682 354 O 113 Similar but more compact and finer 16.84 * MMAG list 326, 14, 1971 style, lion's mane with fewer short hoard tufts, neckpiece flat. 16.89 Naples 4813 R 285 Die of 351 16.42 Naples 4814 15.91 * London Lloyd SNG 1652, Cefalú hoard 350 O 112 Die of 348 R 285 Horse with more protrusive throat; 355 O 113 Die of 354 in left field, caduceus. R 289 Truncation sharply indented; in Legend mhsbm left field, caduceus. 16.92 * Paris Luynes 1456 Legend mhsbm 16.70 Vienna 17.39 * ANS 351 O 112 Die of 348 356 O 113 Die of 354 R 286 Truncation low in front, restless R 290 Similar, truncation shallower; in left mane; in left field, astragalos. field, caduceus. Legend mhsbm Legend mhsbm 16.37 Naples 4812 16.60 * Hague * Private collection Y 17.09 Pennisi 16.69 Pennisi 357 O 113 Die of 354 R 291 Truncation more angular; in left 352 O 112 Die of 348 field caduceus, not so close. R 287 Similar, nose lower, neater mane; Legend mhsbm in left field, astragalos. 16.67 * Paris 2341 Legend mhsbm Syracuse, Megara Hyblaia 17.10 * Private collection X == hoard 1967 Hamburger 98, 458 353 O 112 Die of 348 358 O 113 Die of 354 R 288 Similar to R 288 but truncation in R 288 Die of 353 17.30 * Bourgey 14. 12. 1911, 48 smoother curve; in left field = Sandeman 265 astragalos. Legend mhsbm Plate 9 359 O 113 Die of 354 361 O 113 Die of 354 (Signs of wear around R 292 Similar but larger; in left field, nose, mouth and chin). astragalos. Legend? (off-flan) R 294 Normal type with curved truncation; in left field caduceus sloping 17.13 * MMAG 1971 hoard outwards. Legend mhsbm 17.41 * London 360 O 113 Die of 354 R 293 Broad short neck like R 280 etc., 362 O 113 Die of 354, worn. short palm tree; no symbol. R 295 Similar, truncation low in front; Legend 'mmhnt in left field, caduceus upright. Baranowsky 1934, 4676 Legend mhsbm 16.85 * Hamburger 98, 457 16.41 * London

Syracuse, Megara Hyblaia

hoard 1967

- 363 O 113 Die of 354, worn.
 - R 296 Truncation in shallow curve; in left field caduceus upright, not so close. Legend mhsbm
 - * Paris 2342
- 364 O 114 Compact head of beautiful style, lion skin tufts in restless mass, neckpiece with folds.
 - R 297 Similar but smaller; caduceus short, sloping outwards. Legend mhsbm 16.13 * Lewis
- 365 O 115 Broad head with refined features, small eye and mouth, lion skin rich in detail, thick interweaving tufts, jaw with frill, neckpiece with folds partly revealed.
 - R 298 Small head with narrow neck,
 S-curved truncation; in left field
 poppy. Legend mhsbm
 17.04 * London Lloyd SNG 1649 =
 Feuardent 19. 12. 1921, 67
 Syracuse Megara Hyblaia

hoard 1967 (rev. double-

366 O 115 Die of 365 R 298' Die of 365 but poppy recut as astragalos.

struck)

- 16.72 * ANS = Benson 802
- 16.55 Brandis 377
 - * Private collection Y
- 16.60 Schlessinger 26. 2. 1934, 376
- Syracuse, Megara Hyblaia
 hoard 1967
- Syracuse, Megara Hyblaia hoard 1967
- Syracuse, Megara Hyblaia hoard 1967
- 367 O 115 Die of 365
 - R 299 Similar, truncation low in front;
 = in left field, astragalos; between horse's mane and palm tree, pellet.
 Legend mhsbm
 16.81 * Paris 2343
- 368 O 115 Die of 365
 - R 300 Horse's neck shorter; astragalos and pellet as R 299. Legend mhsbm 16.27 * London
- 369 O 115 Die of 365
 R 288 Die of 353, 358
 16.78 * Münzh. Basel 10, 148 =
 Hess 207, 223

Plate 10

- 370 O 115 Die of 365, signs of wear.
 - R 293 Die of 360 (legend 'mmhnt), more worn breaks around horse's nose and throat (Hindamian).
 - 17.40 HL 1960, 108
 - Hindamian 290 =Luneau 940
 - Mionnet cast (uncertain original)
 - 16.37 * MMAG 1971 hoard
 - Paris 2354
 - 16.64 * Sambon 19. 12. 1907, 522 = Schulman 16. 12. 1926,
- 371 O 115 Die of 365
 - R 301 Similar to R 293 Legend 'mmhnt
 - 16.69 * London (PCG IV. C. 19)

- 372 O 115 Die of 365
 - R 302 Similar. Legend 'mmhnt 16.52 ANS 16.66 * Hess 209, 47 = Rosenberg 72, 803
- 373 O 115 Die of 365
 - R 303 Similar, mane more restless. Legend 'mmhnt
 - * Castro Maya 1957, 37
- 374 O 116 Very small head, lion skin has dense mass of tufts curving down to the neck and paws. Dotted border.
 - R 304 Compact horse head; die-flaw across neck gives the impression that horse is tethered to tree. Legend 'mhmhnt
 - * Boudin 15. 4. 1912, 329
 - 16.62 * Paris Luynes 1450

16.81 * Glendining 18. 4. 1955, 233 375 O 116 Die of 374. Signs of wear on the = Sotheby 9. 3. 1936, 149 face. R 305 Similar, head held lower. = Helbing 8. 11. 1928, 3720 = Nav. 1,3304Legend mhsbm 16.42 Egger 45, 839 17.10 * Hess 194, 168 378 O 117 Die of 376. Cracks also above and behind. 376 O 117 Closely similar to O 116, slimmer R 308 Strongly curved truncation. face, lion skin tufts finish closer to No legend 16.45 Copenhagen 93 R 306 Similar but a little larger, same 16.65 * London = Münzh. Basel 4, shallow S-curve truncation, smaller 1157 tree. Legend mhsbm 16.98 London (formerly) 17.59 Benson 803 = Morgan 195 15.94 MMAG, 1971 hoard * Naples 4803 17.20 Paris Luynes 1453 379 O 117 Die of 376 377 O 117 Die of 376. Wear on face and in R 309 Similar, truncation less curved. front. Legend mhsbm * Private collection Y R 307 Similar, truncation down more in 16.79 H. Weber 1776 = Nav. 4, front. Legend? (small traces visible) 1008 Plate II 380 O 118 Face similar to O 116 but different 384 O 119 Broader head, regular curls on lion skin neckpiece with prominent forehead; lion skin with thick tufts, mouth plain, neckpiece with fold. folds and tufts in looser arrangement. R 310 Truncation almost straight. R 314 Similar, truncation with a different shallow curve. Legend mhsbm Legend mhsbm 17.13 * Lewis CCCC SNG 429 16.76 * Ciani 20. 11. 1935, 87 =Allotte de la Fuye 134 16.65 Copenhagen 91 381 O 118 Die of 380. Flaw in front. 17.41 HL 1957, 144 R 311 Small short-nosed horse, larger palm 16.58 Lewis = Glendining tree, S-curve truncation. 19. 7. 1950, 62 Legend mhsbm * Private collection Y Berlin (Regling MaK 836) 16.51 Schweiz. Bankverein Zürich 16.79 * Paris 2351 2, 1977, 280 16.63 Vatican 382 O 118 Die of 380. More worn in front. 385 O 119 Die of 384 R 312 Similar, truncation straighter. R 315 Similar but narrow neck, Legend mhsbm truncation down in front. 16.07 Ahlström 6, 1974, 88 Legend mhsbm 17.01 * Stockholm SNG 661 17.44 * Cahn 71, 699 = Cahn 66, 483 383 O 118 Die of 380. Heavily worn in front. 16.95 Hess 194, 167 R 313 Similar, palm tree taller. Syracuse, Megara Hyblaia Legend mhsbm hoard 1967 17.26 Glasgow Hunter 15 Syracuse, Megara Hyblaia

hoard 1967

16.95 * London

386 O 119 Die of 384. Break on nose. break across mane and palm trunk. R 316 Horse with normal wide neck, Legend mhsbm (partly visible) truncation low in front. * Syracuse Megara Hyblaia Legend mhsbm hoard 1967 Guadan Mionnet cast (uncertain 389 O 119 Die 384 original) R 319 Similar to R 316. 16.86 MMAG 1971 hoard = Legend mhsbm Münzschätze 5 (Bayer. 16.46 ANS Bourgey 3. 12. 1928, 128 Vereinsbank 1977), 78 16.48 Naples S 8085 Cahn 66, 484 17.13 16.91 * Pennisi Canessa 12. 6. 1928, 728 16.90 SC 1927, 1158 * Ratto 4. 4. 1927, 2927 Syracuse Megara Hyblaia 387 O 119 Die of 384 hoard 1967 16.70 Vienna R 317 More compact, shallow truncation. Legend mhsbm 16.42 ANS 390 O 120 Flaw on eye. Closely similar to Berlin O 119, face larger, lion skin tufts 16.99 Cancio looser. 16.84 * London Lloyd SNG 1646 R 317 Die of 387 Cefalú hoard Luneau 939 16.68 London 16.30 Riechmann 1921, 1120 St. Louis, Washington 388 O 119 Die of 384 University, Wulfing coll. R 318 Horse's head lower, mouth open, * Syracuse 25286, Mineo truncationn more curved. Die hoard Plate 12 391 O 120 Die of 390 differences in palm tree and R 319 Die of 389 truncation. 17.21 * Hague Numismatica Toderi 4, 17.33 Headlam 82 1973, 148 16.75 London = Glendining-Seaby III 1187 395 O 121 Closely similar to O 119-120 but altogether larger, tufts of lion's 392 O 120 Die of 390 mane long and loose, neckpiece with R 320 Similar to R.319 but truncation in folds more prominent, lion's mouth shallower curve. Legend mhsbm very wide open with thin edge. R 323 Horse head small, truncation 16.47 Hamburger 98, 456 17.12 * Lewis shallow. Legend hardly visible (off-Ratto 8. 11. 1928 (Paris), flan). * Feuardent 18. 6. 1924, 54 393 O 120 Die of 390 396 O 121 Die of 395. Signs of wear in front R 321 Similar to last. Legend mhsbm on some specimens. 17.44 * Private collection Sicily R 324 Horse head larger. Legend mhsbm 16.97 AC 16, 929 394 O 120 Die of 390 Brussels R 322 Similar to R 315 (385), small 16.90 Glasgow Hunter 14

Grabow 9. 6. 1930, 607 16.70 London Lloyd SNG 1648, Cefalú hoard 16.28 * MMAG 1971 hoard 16.54 MMAG 1971 hoard

397 O 121 Die of 395 R 325 Horse head smaller than last, palm tree larger. Legend mhsbm 16.36 * Private collection X

398 O 121 Die of 395. Breaks in front of face. R 326 Similar, truncation more curved and palm tree closer. Legend mhsbm Berlin 16.35 * MMAG 1971 hoard 17.29 MMAG 1971 hoard 16.84 Oxford SNG 2164

399 O 121' Die of 395, now partly recut, especially the eye, brow and nose. R 327 Truncation more deeply curved in front, palm tree tall. Legend mhsbm 17.14 * AC 16, 928 Ahlström 14. 1977, 655

15.90 Helbing 24. 10. 1927, 3171 16.94 Naples 4801 Ratto 1927, 447

400 O 121" Same die further recut - inlet below lion's jaw wider. Breaks in front. R 328 Similar but horse's neck narrower,

base of palm tree closer to mane. Legend mhsbm

* Palermo

401 O 122 Different style; face with short nose and bulging brow; lion skin has mouth in broad band, tufts fewer but thicker, plain neckpiece, second paw not shown.

R 329 Similar, straight shallow truncation. Legend mhsbm 16.75 * Paris Luynes 1454 16.82 Paris Delepierre

402 O 122 Die of 401 R 330 Truncation more concave. Legend mhsbm 17.10 * Paris Luynes 1457 16.95 Syracuse 13206, Scoglitti hoard

Plate 13

403 O 122 Die of 401 R 331 Similar, truncation more curved, mane more curly. Legend mhsbm 17.25 * Hague

404 O 122 Die of 401. Heavy flaw on cheek. R 332 Similar, details and legend not visible.

* Naples S 8089

405 O 122 Die of 401

R 333 Smaller, truncation shallow. Legend mhsbm

* Ciani 14. 6. 1934, 88

* Syracuse 25287, Mineo hoard

406 O 123 Small compact head, lion skin with short snaky tufts and very prominent neckpiece with folds.

R 330 Die of 402 17.05 Glendining 21. 6. 1972, 108 15.76 London 16.70 * MMAG list 396, 12

407 O 123 Die of 406. Break across chin. R 334 Similar to R 331. Legend mhsbm * ANS

Sambon 19. 2. 1907, 521

Santamaria 1934, 160

408 O 124 Closely similar to style of O 122 but more compact; lion skin has neckpiece with folds, single paw. Die flaw across head.

> R 335 Horse's neck rather narrow, shallow truncation. Legend mhsbm 16.93 * London

Munich

409 O 124 Die of 408 R 336 Similar, more curved truncation. Legend mhsbm

412 O 124 Die of 408. Die-break worse. Delmonte 18. 11. 1933, 207 R 339 Similar, horse wide-necked. Guadan 16.60 Helbing 70, 536 Legend mhsbm 17.36 * Pennisi Grabow 9. 6. 1930, 606 16.90 Helbing 1911, 796 17.14 Lockett SNG 1056 410 O 124 Die of 408, neck narrow. 16.48 * MMAG 1971 hoard R 337 Horse's nose up, truncation very 16.85 SC 1927, 1157 = shallow. Legend mhsbm Rosenberg 64, 1504 = * Syracuse 25288, Mineo Brandis 378 Syracuse Megara Hyblaia hoard hoard 1967 411 O 124 Die of 408 413 O 124 Die of 408. Additional breaks in R 338 Horse's head not raised, neck wider, front of mouth. R 340 Similar, horse's neck not so wide. fairly shallow truncation. Legend mhsbm Legend mhsbm * Syracuse 48. 326, Camarina 16.18 * London hoard 1928 16.95 Oxford, Miss., USA Plate 14 414 O 124 Die of 408 R 343 Similar to R 339 but less wide. R 341 Similar to R 338. Legend mhsbm Legend mhsbm 16.63 ANS = 7. 3. 1935, 284 17.06 * Allotte de la Fuye 136 16.33 * Pennisi 415 O 124 Die of 408 R 342 Similar, truncation down in front. 419 O 125 Die of 416 Legend mhsbm R 344 Similar to R 340, truncation more * ANS concave. Legend mhsbm 16.87 Oxford SNG 2163 * de Nicola, March 1972, 192 416 O 125 Similar style to O 124, lion skin 420 O 126 Closely similar to O 124 but the has fewer but thicker tufts, plain face quite different and neckpiece neckpiece and single large paw. of lion skin smooth and without R 335 Die of 409 folds. R 345 Very shallow truncation. 16.23 * Schweiz. Bankverein Zürich Legend mhsbm 2, 1977, 281 16.72 * London 417 O 125 Die of 416 R 342 Die of 415 421 O 126 Die of 420 16.38 * London R 346 Closely similar to R 345. Legend mhsbm? (little visible) * Helbing 8. 11. 1928, 3722 418 O 125 Die of 416. Vertical flaws across

middle and on right.

Series 6 (Plates 15–20)

The following group of coins belongs to a later period than any of those previously discussed, and is included here on account of the apparent connexion with Sicily. One important element is the issue of electrum triple-shekels of low gold content which formed group VIII in Jenkins-Lewis and which are here re-listed with some revision and additions. The remaining coins are large silver denominations, a small issue of 6-shekels and 3-shekels, with another and larger issue of 5-shekels; a 1-shekel of the same types as the 6-shekel is also included on the assumption of being genuine. What may have been a half-shekel of the same types as the 3-shekel coins is noted by Müller ³² from an older publication but the specimen has not come to light since and nothing can be said about it. The group as a whole has a certain stylistic homogeneity; its approximate date can only be deduced from a comparison with other Carthaginian coins, and there are no finds to give an association with other coins of known date.

At first sight there seems to be a division into two groups, first the 6-shekel and 3-shekel without legend, and second the 5-shekel and the electrum (Jenkins-Lewis group VIII *) which both have the legend B'RST. However the division is not so clear stylistically. Of the large silver, the 6-shekel has a head which is close to that of the Carthage shekels (pl. 16 E) in its rather plain aspect as in the general arrangement of the hair though lacking the curl on top behind the corn ears, and having a triple not single earring and a plain not pendant necklace; the truncation is however more or less S-shaped like the shekels. The 3-shekel coins seem to be by another hand and are closely related to the group VIII electrum, with a rich treatment of the curls above the forehead and behind the ear, a top curl (but no top spray as on the electrum), triple earring, pendant necklace and S-shaped truncation (the latter also similar to the Carthage shekels). The 5-shekel coins may be said to be linked to the Carthage shekels by having a single earring and a top curl (but no top spray) but the neck and truncation are markedly different as on the 5-shekels there is really no necklace and the truncation is mostly indeterminate (where visible), running into the dotted border and once (on O4) making a shallow S-curve; the 5-shekels thus stand rather apart from the rest. However it remains true that the whole group seems to hang loosely together and that the only points of contact with other coins are formed by the Carthage shekels and the electrum staters of Jenkins-Lewis group VII; the latter have a general similarity to the coins we are concerned with though differing markedly in the form of the pendant necklace and truncation which remains convex as on previous gold and electrum issues. The Carthage shekels are not closely datable except to the earlier third century, the Group VII electrum

³² Müller II p. 92 note 2 «D'après Bull. Sardo IV p. 68 no. 3 il semble qu'il existe aussi une drachme aux mêmes types.»

^{*} For a revised list see Appendices.

staters should be of about 270. For what this indication is worth, it should suggest that the group of large silver and electrum coins belongs to about the early years of the first Punic war (\pm 264 B.C.).

The legend B'RṢT on the decadrachms and electrum tristaters has been discussed many times. Older references are given by Müller and Gsell. One theory is that this legend somehow corresponds to Byrsa, the name of the citadel of Carthage or at least that part of the city including the citadel. The name is known only from classical sources in its Greek form $\beta \dot{\nu} \varphi \sigma \alpha$ (= ox-hide), on the basis of which the story went that Dido-Elissa when founding the African colony was to claim such territory as could be covered by an ox-hide; however by cleverly cutting the ox-hide into small strips she was able to measure out a sizeable area of ground. It is uncertain whether there is any real significance in the «ox-hide» name or whether it is, as has been suggested, an attempt to turn into Greek a semitic word meaning a «fortified space», on the analogy of the Hebrew BṢRH (with an interchange of the middle letters) 33 – a similar root which is behind the name of e.g. ancient Bostra.

The connection between the coin legend B'RST and the Byrsa of Carthage has most recently been accepted again by Cintas ³⁴, but most opinion in recent times has preferred the interpretation as «in the land» ³⁵. This interpretation is unexceptionable, on the basis of the word 'RS or 'RST plus the prefix B (= «in»), a word familiar from the phrase «Eretz Israel». 'RS is a term attested from a North African inscription from the area of Maktar mentioning 'RST TSK'T. the territory of Tusca corresponding to what was later called «Pagus Tuscae» as an administrative division in Roman Africa ³⁶. The Greek equivalent of 'RS is, as Picard has pointed out, $\chi \omega \omega$. The Carthaginian domain in Africa appears to have been made up of seven or eight quite large 'RST each under a prefect, the whole under the command of a Boetharch ³⁷.

How far this throws any direct light on the coin legend b'rst is not certain. It was argued in Jenkins-Lewis that if the correct general sense of the legend is «in the land» then it should at least imply that the mint in question was not at Carthage. Bisi considers that the implication of 'RS is such as to mean not only «territory» but «national territory» and that this indicates that the coins were for circulation in the area surrounding Carthage ³⁸. However it can hardly have been necessary for coins to be so designated as all Carthaginian coins could have circulated in the whole area in any case (though these apparently did not – see below). If the coins are to be thought of as having an intimate connection with the African 'RST it might be

³³ Cf. R. E. 10. 2, col. 2205 f.

³⁴ Cintas Manuel I, 172 f.

³⁵ Bisi, Annali 16-17, 1969-1970, 103 ff.

³⁶ G. C. Picard, Mélanges Piganiol III, 1966, 1257 ff.

³⁷ Cf. Gsell II, 302.

³⁸ Bisi cf. note 34 above.

necessary to suppose the existence of another mint in Africa, which must surely have been quite superfluous and makes little sense.

In fact I still think that the solution is more probably the one indicated by the find spots of the coins; and this clearly suggests Sicily rather than Africa. It is true that apart from the finds the indications might be held to be equivocal. The weight standard now used both for the silver and the electrum denominations is no longer the Attic standard as had been previously used in Sicily, but the Punic shekel standard, hitherto only used at the mint of Carthage. But this is hardly a cogent objection against Sicily as possible mint at the date in question, for in Greek Sicily too since the latter days of Agathokles the Attic standard had been abandoned 39, and was not resumed except briefly by Hieronymos, for the minting of silver, though it was retained for gold. Another factor is the style of the B'RST group of coins; it is not entirely uniform, but can hardly be called specifically Sicilian since all the close parallels are typical of styles which were or had been current at the mint of Carthage. On the other hand, there is the question of the die-axis, and this criterion does really seem to distinguish the coins apart from those of the Carthage mint. At Carthage the regular upright axis † † had come in with the electrum issue of c. 320/310 B.C. 40 and thence remained constantly in use there until the last days of Carthage, as opposed to an irregular axis still found in other issues, e.g. of bronze, in Sardinia and Sicily (the regular axis being otherwise found very rarely and notably in Barcid Spain). There is a slight degree of variation in the regular axis of for instance the silver shekels of Carthage J-L pl. 26. 14 but less than that shown by the silver of the B'RST group. Above all, the electrum coins of the B'RST group have a decidedly irregular axis. This supports the deduction made in Jenkins-Lewis that the group of coins in question should have been minted elsewhere than at Carthage, as indeed is implied by the legend.

In fact the finds known are exclusively from Sicily. Isolated specimens of the electrum were recorded as found near or at Palermo (J-L 368 and 372.5) which is also the case for the silver 3-shekel Jameson 2349. Then a number of other electrum pieces, together with specimens of the various large silver denominations, came from a hoard discovered in 1896/97, allegedly at Porto Empedocle near Agrigento (IGCH 2207; J-L hoard XVI). Finally as many as fifty to eigthy of the silver 5-shekel coins (decadrachms) came from a hoard found at or near Palermo in 1958 (IGCH 2208; possibly from Termini Imerese). As against this, no specimen of any of these coins has ever, it seems, been reported from Africa.

Naturally it is impossible always to be sure that find spots give an exclusive indication for place of mintage – it is only necessary to think of the great finds of Carthaginian gold and electrum staters found in Sardinia but certainly minted at Carthage. However the possible Sicilian origin of the B'RST coins must be taken seriously, in view of the find evidence. If so, what can be the significance of the

³⁹ Cf. Essays Robinson, 153.

⁴⁰ Jenkins-Lewis group IV.

legend B'RST? Having in mind the circumstances of the early third century and the probability that Carthage was viewing herself at the time as more or less the «great power» of the western mediterranean, it seems reasonable to wonder: does B'RST here apply specifically to the Sicilian province and if so does it mean that the latter was regarded at this period as an integral part of the Carthaginian state in the same way as the several 'RST of Africa? The question may be raised, but hardly answered, for lack of any direct evidence ⁴¹.

⁴¹ It is true that in their treaties with Rome the Carthaginians did not treat Sicily as a forbidden zone in the same way as Sardinia or Africa; but it seems uncertain how much we could deduce from this in respect of their precise relation with Sicily, since, like Sicily, Carthage itself was not a forbidden zone. On the Carthaginian attitude to Sicily in 241 B.C., see recently F. Decret, Carthage ou l'empire de la mer (Paris 1977), 167 f.

Catalogue

Plate 15

6-shekels (dodecadrachm) 424 O 2 R 3 Obv. Female head with two corn-ears and leaf in 1 45.52 * Hunter Glasgow pl. xciii. 24 hair, triple earring, plain necklace, indented truncation; dotted border. 425 O 3 Rev. Prancing horse. R 4 44.15 Sartiges 390 = Hirsch 21, 422 O I Rі Hirsch 11, 106 \uparrow 45.61 ANS = Nav. 5, 3025 * Private collection Y ↑ 45.34 * Copenhagen 179 † 45.36 London PCG pl. 38.30 426 O4 44.25 Naples 4848 R 5 1 44.64 Naples 4849 1 45.30 * Vienna 44.27 Naville 6, 603 1-shekel (didrachm) 423 O I Obv. and rev.-types same as 6-shekels R 2 ↑ 45.37 * Berlin 6.52 Shown at B. M. 1968 44.35 MMAG 43, 5 = Jameson (genuine?) 925 = Hirsch 19,660Plate 16 429 O 2 3-shekels R 2 Obv. Similar to the 6-shekel type but the hair † 20.64 Gulbenkian 379 = more elaborate and restless; curl on top Jameson 2439 behind corn-ears; pendant necklace. † 21.99 * Private collection Y = Rev. Horse's head. Lockett 1065 = Nav. 10. 428 O I 373 = Nav. 4. 1019RI 430 O 3 AC 13.391 R 2 † 21.44 * Berlin 22.15 Paris Luynes 3780

Plates 17-20

5-shekels (decadrachms)

Obv. Female head with two corn-ears and leaf in hair, single drop earring, no necklace; truncation where visible seems to merge into dotted border. (O 4-truncation ends in sharply indented concavity outside dotted border.)

Rev. Pegasos flying right; leading edge of wing has rounded corner overlapping horse's neck with strongly curved indentation below; on lower part of the wing, normally two main rows of short feathers, but on RII, I2 three rows of feathers.

Below between front and back hooves of pegasos, legend B'RST

B'RST TF979

There is little variation in the letter forms between one version and another; the letter alef alone shows slight variants.

Alef RI R5 RII R18

PPPP

Plate 17

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431 O 1
                                                                   (obv. tooled?)
                                                                  * Private collection Y
    Rі
         ≥ 36.05 Niggeler 547 = Jameson
                   926 = Hirsch 16.702
                                                435 O 1'

    35.86 * Oxford SNG 2171 =
    ■

                                                    R 5
                                                                  * Palermo hoard 1958
                   Lockett SNG 1064 = AC
                                                                   Palermo hoard 1958
                   16.946 = Sartiges 391
                                                                   Palermo hoard 1958
432 O I
                                                                   Vienna
    R 2
                                                          ₹ 35.13
                 * Palermo hoard 1958
                                                436 O 1"
433 O 1'
                                                    R 6
    R 3
                                                          † 37.93 N. Davis 345
         √ 37.99 * LH 49, 1971, 83
                                                          ? 37.42
                                                                  MMAG 43, 1970, 6 =
                                                                   Hirsch 21. 4685 =
434 O 1'?
                                                                   E. F. Weber 1278
    R 4
                                                                  * Palermo hoard 1958
         1 36.29 Paris Valton 605 =
                                                                   Palermo hoard 1958
                   Montagu I 814
                                           Plate 18
437 O 2
                                                                   Palermo hoard 1958
    R 7
                                                                  Paris Luynes 3757
                                                          1 35.88
         → 38.49 * Copenhagen 180
                                                                   Private collection
         / 39.45 Collignon 146 = Nav. 6.
                   604 (obv. truncation tooled)
                                                440 O 2"
                                                     R9 /-
                                                                   Kricheldorf XI 1962, 74 -
438 O 2
                                                                   Palermo hoard 1958
                                                          1 37.97 Lewis (Jenkins-Lewis
    R 8
         / 36.58 * Berlin = Ashburnham 253
                                                                   pl. 27. 2)
                                                          † 37.70 Paris Luynes 3758
439 O 2'
                                                                 * Palermo hoard 1958
    R 6
           Die of 436
         † 37.64 Glendining 23. 1. 1963, 997
                                                441 O 2"
         / 38.05 * MMAG 32, 1966, 186
                                                   R 10 1 37.33 * Berlin
                                                         √ 37.17 Naples 4847 (Annali 16/17
         1 38.23 MMAG 47, 1972, 551
                   Palermo hoard 1958
                                                                   pl. viii. 11)
                                                          † 35.88 Paris Smith Lesouef 93
                   Palermo hoard 1958
                                          Plate 19
442 O 3
           Flaws on chin and in field
                                                          √ 34.99 Munich = Carfrae 14
    RII
                                                                  * Palermo hoard 1958
         ₹ 36.98 Boston 506
                                                                   Palermo hoard 1958
         × 36.49
                  London RPK = PCG V C
                                                443 O 3
         / 37.69 MMAG 19, 1959, 601
                                                    R 12
           36.09 Glasgow Coats 3461
                                                          37.91 Leu 7, 1973 107
                                                                 * Palermo hoard 1958
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The face heavily remodelled
                                                                  Palermo hoard 1958
444 O 3
                                                           35.57 Paris Vogué 664
           (on the coin?)
                                                         ↑ 36.58 * Private collection Y =
    R 13
           36.54 * Bunbury 547
                                                                  LH 1956 248
445 04
                                                446 O4
    R 14
                                                    R 15
         ↑ 36.48 Berlin
                                                                * Private collection Y
         ↑ 37.44 Cambridge SNG 1512 =
                                                                  (rev. Giacosa, Uomo e
                  Benson 806
                                                                  cavallo pl. lxxxviii)
                  Hamburger 29. 5. 29
                                                447 O4
                   (these dies?)
           35.60 Hirsch 31.655 = Hirsch
                                                    R 16
                                                         / 37.88 * Hirmer 211 = Leu-Hess
                  33.995
         † 35.70 London Lloyd SNG 1665
                                                                  1959, 125
                                                                  Palermo hoard 1958
           36.74 O'Hagan 807
                                          Plate 20
448 O4
                                                         ≥ 38.01 * Leu 15, 1976, 151 = LH
                                                                  1962, 137 = Palermo hoard
    R 17
                 * Palermo hoard 1958
                                                         / 37.81 LH 31, 1966, 182 = LH 45,
449 O4'
                                                                  1970,85
    R 18
                                                                  Palermo hoard 1958

√ 37.05 * London (Cracherode)

                                                         ₹ 37.20 Private collection X
         √ 36.80 Vienna
                                                         > 31.50 Stockholm SNG 663
450 O4'
    R 19
                                               452 0 5
         1 37.77 * Leu 28, 1965, 120
                                                    R 21
451 O 5
                                                           37.77 Harmer-Rook 19. 1. 1978,
    R 20
         > 37.58 Brussels de Hirsch 1866
                                                                 * Palermo hoard 1958
                                                         1 -
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- F 1-4 See part 2.
- F 5 See part 2; London ex Blacas 1867, 17.31.
- F 6 Copy of 49-52; details weak, scrappy fragments of legend incorrect. Specimen seen in 1967 (weight?).
- F7 Copy of the type of 61-67. A strange and disturbing item, not least on account of its provenance, the Megara Hyblaia 1949 hoard (!), in spite of which it seems impossible to regard it as genuine. The harsh forms of the head are quite at variance with O 16-17-18 and the letter mem behind the neck is unsatisfactory; likewise the palm-tree, whose branches and bunches are utterly feeble and whose trunk disintegrates into a mass of separate dots in a quite uncharacteristic manner. Conceivably this should be regarded, on account of its provenance, as an ancient forgery rather than a modern one; if so it is the only known example of the kind.
 - Syracuse, Megara Hyblaia 1949 hoard (inv. no. 55850), 16.05.
- F 8 A crude copy of the types 88–90 which would deceive nobody. Specimen from Malta, cast in London 1931, 15.96; another 1937.
- F 9 A bizarre combination of a reverse copied from series 1 (no. 27) with a head from series 2 b (no. 121); the head is not so bad, but the reverse is weak and the legend peters out lacking the last letter of QRTHDST.

 Specimen seen in 1965, 16.87.
- F 10 Copy of 92: apparently a plated coin, ancient forgery (?). Copenhagen SNG 43, 80, 15.53 g.
- F II-F I2 These two both derive from the same obverse die (O 46) which is the one that joins series 2 d to series 3 a. The reverse of F II is close to that of I36 though altered a little in detail; that of F I2 is close to the reverse of I43. In both cases the fine quality of the original work has been lost; a close comparison, especially of the heads, with the originals reveals that the actual dimensions have shrunk by a small but perceptible amount. Thus it is clear that casting was employed at some stage in the production of these forgeries.
 - F 11 specimen seen in 1962, 16.96; another 1965, 16.84.
 - F 12 specimen seen in 1956; another 1965, 17.88 (sic).
- F 13 Copy of 189; small difference and a certain hardening in detail throughout. Specimen seen 1971, 17.28.
- F 14 Difficult to find an exact prototype for this; a very problematic item. Though at first sight rather good, doubts supervene; many of the details have a fussy and scrappy look; a dot in front of the front dolphin. The horse's head has a strange expression quite uncharacteristic of this series. What finally settles it is surely the legend, with its scrappy disjointed and inaccurate letters.

 MMAG 43, 26.
- F 15 A peculiar and rather crude copy; since there is an attempted shell below the chin it must be the obverse O 49 which is copied. Very scrappy throughout, legend hopeless.

 London 14.61; another in Prado, Madrid.
- F 15a Types of series 3 a e. g. 148. Becker 131.
- F 16 An inferior copy of 270; loss of quality and detail evident at every point. Cast in London, 1962, 16.83.
- F 17 A more serious copy of 270. Obverse: many small discrepancies especially the far-side tiara flap, the locks of hair protruding behind, the exaggerated and hardened outlines of the tiara, the space between truncation and tiara side-flap and the border, which space does not exist in the original. Reverse: Numerous discrepancies especially the trunk

- of the palm-tree disintegrating; legend sketchy. Casts in London, 1939 (16.38) and 1949 (16.80). Cf. Ravel, Falsifications pl. IX. 40.
- F 18 Very inferior version, seen 1964.
- F 19 Apparently a mechanical reproduction of 271, somewhat shrunk from the original and weaker in every detail. Palm tree branches narrowed; front paw of lion wrong; shin of legend wrong.

Specimen seen in 1974, 16.85 (bad patina); another 1965, 16.95.

- F 20 Copy of 272. At first sight plausible and close to the original; but the discrepancies are there and soon become apparent with close examination. Obverse: weak points the ear, earring, edge of tiara behind the ear; bottom edge of back tiara flap «cut off» and wavy strand of hair above it very feeble. Modelling of the tiara itself very weak, the pleats too much separated. The lock of hair and tiara flap in front of the neck wrong. Reverse: the whole body and paws of the lion weak, the bristling mane full of small discrepancies, palm-tree very poor. Legend hardly corresponds on detail to the original (itself marred by numerous die-flaws, see catalogue).

 Naples 4280.
- F 21 A self-evident absurdity, modelled loosely and crudely on 272 but with a Greek legend ΛΕΟΝΤΙΝΟΝ replacing the Punic inscription.

 London.
- F 22 Types of series 5 but rev. horse's head adapted from a reverse of series 3 e.g. 183, 184 with legend 'mmhnt and in front triangle of dots suggested by 277 etc.

 Seen in 1969. 16.39 g.
- Types of series 5, very broad obv. head, rev. horse's head similar to 294, cornear symbol, legend 'MMHNT, peculiar lettering.

 Becker 130: specimens including Brussels Hirsch 840; Egger 40.1269; Nobleman 234; MMAG list 351, 7; commerce 1968.

 Same obv. used for Becker's forgery 47 (Alexander) here pl. 22.
- F 24 Types of electrum tristater Jenkins-Lewis group VIII but in silver. 1959; 37.94 g. 1965; 38.00 g.
- F 25 Types of 6-shekels, crude version of 422. Seen 1976; 42.24 g.
- F 26 Obv. of 6-shekel type as F 24 combined with rev. 5-shekel type. Made at Cefalú 1975.
- F 27 Obv. type of 5-shekels combined with rev. type of 6-shekels. 1969; 39.28.
- F 28 5-shekels type, Becker 134; obv. based on O 2 with wrong truncation, rev. based on R 9 but with too many feathers.

 Cf. Kress Nov. 1953, 126.
- F 29 5-shekels type, based on 442. 1969; 37.84.
- F 30 5-shekel type based on 448; Milan (cast) 29.42 g. Dr. Arslan confirms that this specimen is now regarded as a forgery.

Key to Plates

DI		Cl			C1
Plate 1	273	Glasgow		313	Glasgow
	274	Paris		314	London
	275	MMAG 43	D1		NT1
	276	London	Plate 5	315	Naples
	277	Paris		316	Private collection Y
	278	Palermo		317	Pennisi
	279 S	King of Sweden		318	London
	279 L	London		319 N	Naples
	280	Paris		319 B	Brussels
	281	Palermo		320	Palermo
	282	London		321	MMAG 43
	283	ANS		322 A	ANS
DI	0	D: 11 - 12		322 N	Naples
Plate 2	284	Private collection Y		323	Vatican
	285 X	Private collection, X		324	Berlin
	285 B	Berlin	DI (n .
	286	Syracuse	Plate 6	325	Paris
	287	Lockett		326	Paris
	288	Boston		327	Berlin
	289	Burlington Fine Arts		328	Pennisi
	290 L	seen 1977		329	Naples
	290 B	Berlin		330	London
	291	Naville 6		331	MMAG 1971
	292	ANS		332	Cambridge
	293	Lewis CCCC		333	Naples
				334	London
Plate 3	294	London		33 5	ANS
	295	Naples			
	296 N	Naples	Plate 7	336	Naples
	296 Y	Private collection Y		337	Egger 40
	297	Glendining 1950		338	Schulman 1936
	298	Naples		339	MMAG 1971
	299	Bourgey 1921		340	MMAG 1971
	300	London		341	Naples
	301	Berlin		342	MMAG 1971
	302	Private collection X		343	Private collection Y
	302	Private collection X		344	MMAG 1971
				345	London
Plate 4	303	Stockholm		346	Paris
	304	Private collection X			
	305	Private collection X	Plate 8	347	Pennisi
	306	London		348	London
	307	ANS		349	MMAG 1971
	308	Glasgow		350	Paris
	309	King of Sweden		351	Hague
	310	Naville 5		352	Private collection X
	311	ANS		353	Naples
	312	Naville 5		354	London

		ANIC			D' War all and a W
	355	ANS		397	Private collection X
	356	Private collection Y		398	MMAG 1971
	357	Paris		399	Ars Classica 16
	358	Bourgey 1911		400	Palermo
DI	2.2.	30/46		401	Paris
Plate 9	359	MMAG 1971	i	402	Paris
	360	Hamburger 98			
	361	London	Plate 13	403	Hague
	362	London		404	Naples
	363	Paris		405 C	Ciani 1934
	364	Lewis		405 S	Syracuse
	365	London		406	MMAG list 396
	366 Y	Private collection Y		407	ANS
	366 A	ANS		408	London
	367	Paris		409	Pennisi
	368	London		410	Syracuse
	369	Münzh. Basel 10		411	Syracuse
Taxable 1	anna	ANY SHARE REPORT NO. IS		412	MMAG 1971
Plate 10	370 M	MMAG 1971		413	MMAG 1971
	370 S	Sambon 1907			
	371	London	Plate 14	414	Allotte de la Fuye
	372	Hess 209		415	ANS
	373	Castro Maya		416	Schweiz. Bankverein 1977
	374 P	Paris		417	London
	374 B	Boudin 1912		418	Pennisi
	375	Hess 194		419	de Nicola 1972
	376	Naples		420	London
	377	Naville 1		421	Helbing 1928
	378	London		A-G	Alexander obverses (London)
	379	Private collection Y		A	Amphipolis
				В	Alexandria
Plate 11	380	Lewis CCCC		С	Alexandria
	381	Paris		D	Sidon
	382	Stockholm		E	Carne
	383	London		F	Babylon
	384 Y	Private collection Y		G	Babylon
	384 C	Ciani 1935			
	385	Cahn 71	Plate 15	422	Copenhagen
	386	Pennisi		423	Berlin
	387	London		424	Glasgow
	388	Syracuse		425	Private collection Y
	389	Ratto 1927		426	Vienna
	390	Syracuse		427	seen in 1968
Plate 12	391	Hague	Plate 16	428	London
	392	Lewis		429	Private collection Y
	393	Private collection Sicily		430	Berlin
	394	Numismatica Toderi		A	Electrum, Brussels
	395	Feuardent 1924		В	Electrum, London
	396	MMAG 1971		С	Electrum, London
		•			-

	D E	Electrum, London Silver, London	Plate 19	442 443 444	Palermo hoard Palermo hoard Bunbury
Plate 17	431 432 433 434 435 436	Oxford Palermo hoard Leu-Hess 1971 Private collection Y Palermo hoard Palermo hoard	Plate 20	445 446 447 448 449 450 451	Private collection Y Private collection Y Leu-Hess 1959 Palermo hoard London Leu-Hess 1965 Leu 1976
Plate 18	437 438 439 440 441	Copenhagen Berlin MMAG 32 Palermo hoard Berlin	Plate 21-	452 -23	Palermo hoard Falsa Addenda to parts I–IV, cf. infra pp. 48–58

Parts I-IV

Appendices - Summary of Hoards - Addenda - Index of specimens

Appendices

SYS-Panormos

Evidently doubt is still felt in some quarters as to the interpretation of the word SYS as a place-name of Panormos, for which cf. part 1 of this publication. The appearance of an interesting article by E. Lo Cascio «La leggenda sys delle monete siculo-puniche e il concetto politico dell'epikrateia» (Parola del Passato 1975, 153 ff.) affords the opportunity for a few further comments. There is no new evidence, so far as I am aware. Lo Cascio seeks to argue towards the conclusion that the appearance of the word sys – which he does not believe to be the name of Panormos – in some way attests a new organisation of the Carthaginian province in Sicily. Admitting that sys should have a geographical significance of some kind, he adopts from Holm the suggestion that it stands for a Punic transliteration of the Greek Σ ixelia, abbreviated. It cannot be said that this article carries conviction, either numismatically or linguistically.

Natural there is no literary evidence as to the equivalence sys – Panormos; indeed if there were, the argument would not arise. There is however no reason at all why it should not have been so in spite of the fact that the name Panormos proved to be the enduring one. In the same way the name kfr' at Solus did not displace the name Solus. It is in any case hard to see why the word sys could be thought to have some more general application to the Carthaginian province of Sicily, when in fact during the early phases (late fifth century) we find coins marked sys being minted concurrently with others marked mtv' for Motya and kfr' for Solus; and later after 350 B.C. we find the series of sys coins still continuing concurrently with those signed rismlart. Moreover to assert, as Lo Cascio does, that the sys coins account for the greater part of those issued in Punic Sicily is in any case not true. In the late fifth century, the Panormos - sys coins are less numerous than those of Motya, while in the latter part of the fourth century the sys series is considerably less numerous than that of ršmlqrt: tetradrachms of sys for the whole period from 405 to 310/300 B.C. account for the use of 22 obverse and 70 reverse dies, whereas at ršmlgrt there were used no less than 26 obverse and 55 reverse dies for the much shorter period c. 350/310 B.C. Also, Lo Cascio seems to take little account of the fact that there existed in Sicily from 410-390, and again c. 350/340 until the early third century, a real official coinage of the Carthaginian state, namely the coins dealt with in parts 2/3/4 of this publication. Of these there are, down to 300 B.C. alone, 82 obverse and 223 reverse dies – clearly a considerable issue which forms the real Carthaginian coinage of Sicily, and beside which the series marked *sys* is of much more restricted quantity and indeed of more local scope. In these circumstances, it really seems beside the point to assert some general or «provincial» significance for the *sys* coins.

Lo Cascio also repeats the argument that there are so many different types copied from Greek mints in Sicily appearing with the legend *sys* and that these could not all have occurred at one place, but this was merely what Lloyd had argued in 1925, and this has been sufficiently discussed already in part 1, 29 f.

To recapitulate a little the details of the coinage at the early appearance of the sys legend: it will be recalled that in order to explain the didrachms with the legend sys numbered Z 1-2-3 and the die-links between these and the coins of Motya and Segesta, we had to envisage a transfer of certain dies from one mint to another, a process for which there are many parallels in the ancient world 42. It is clear that obverse die O 9 came from Segesta (part 1 plate 2 A) and that it was subsequently used for Z₃ in combination with the unfinished Segestan die bb (on which traces of a Segestan legend remain between the letters of the sys legend). At the same time another die of Segestan character, and presumably also of Segestan make, O8, was brought into use with reverse bb to make Z2, the same obverse being used to make Z I in combination with another reverse of Segestan style, aa. Die aa has the sys legend done in the same large handwriting as that of bb and the same Segestan engraver could have made both these reverse dies. So far one could say that the sys coins Z 1-2-3 might as well simply have been produced at Segesta. However at this same juncture we find the obverse O8 being used in combination with Motya reverses R 6-7-8. There would have been little point in bringing Motyan dies to Segesta, and even less in taking Segestan dies to Motya. But there would have been some point in taking dies from either one or both these mints to a place where no regular mint existed at that moment - namely Panormos. I believe this is what happened, and that it gives a straight forward explanation of the complex die-linked material involved, without having to fall back on elaborate and mysterious hypotheses regarding the word sys. It is hardly necessary to add once again, that the only direct evidence for the significance of sys. remains, as it was, the bilingual litra (here plate 24) with obverse sys and reverse Πανορμος.

For the rest, there seems little to be gained by the attempt to place the coins Z₁₋₂₋₃ after, instead of before, the Panormos didrachms with Greek legend, in order to make a once-for-all change from Greek to Punic; it does not really follow

⁴² To the instances listed in part 1, p. 28 may be added: common die between Paphos and Citium in the late Ptolemaic period (Nikolaou-Mørkholm, Paphos I, 73) and common dies between Pergamon, Sardes and Synnada in the cistophoric coinage (Kleiner, The early Cistophoric coinage, 80). Of these, the first is almost certainly a transferred die, the second may be a case rather of centralised mintage (Kleiner).

from the numismatic evidence (see the table p. 51), and some alternation at this period is hardly surprising in view of the already mentioned bilingual litra which has both Greek and Punic. As for the chronology of the Greek didrachm phase at Motya and Panormos, viz. c. 425–410 B.C., this seems confirmed by the showing of a new hoard reported from western Sicily and evidently buried c. 409 B.C., in which a specimen of the Panormos didrachm no. 7 was included.

Finally as regards the meaning of the word \$y\$ it is really necessary to take issue with Lo Cascio over the interpretation as SIK(elia). It is not difficult to condemn this at once as philologically absurd, since it is inconceivable that both the first and the third letters of «Sikelia» should both the represented in Punic lettering by one and the same letter, sade. Nor is it possible that anyone in Sicily who knew the Punic language could have been expected to understand \$y\$ in such an unexpected sense, for the word has perfectly good semitic roots 43. Indeed there is an example of its use as place-name, in the Old Testament: \$y\$ is the name of a place in the south-eastern desert of Judaea near which Jehoshaphat defeated the Moabites and Ammonites (II Chron. 20. 16). Which of the possible meanings of the word is to be judged most appropriate in the case of Panormos is naturally not a matter for dogmatism, but the meaning «blossom, flower» is by no means inappropriate on the analogy of Florence or Florentia, the ancient Granada (= Iliberris). In any case the important point is that since \$y\$ does possess semitic meanings it is highly unreasonable to try to make it into something quite different.

⁴³ Schmoll, Die vorgriechischen Sprachen Siziliens, 49, sys = «wing», translating Lybian afr, and so obtaining the sense «African, i.e. Carthaginian territory». – Bisi Annali 16–17, 1969–1970, 84–85 mentions sys = «fiore», nel senso di «la più bella», «la splendida»; but also mentions the possibility of a meaning «ramo, rampollo». This latter («offshoot») might, she remarks, refer to coins derivative from those of the main mint, and thus help to explain the variety of typology which makes it difficult to think of all the sys coins being minted at a single centre (a difficulty, if it is one, which we have referred to above, and in part 1 p. 30); but here it is hard to see the same term would apply to the coins of the main sys series of tetradrachms which can hardly be «derivative» and must be of the principal mint itself.

Motya – Panormos – Summary

425–415 Motya I	c. 430 (?) Panormos Dr., AE cock s Panormos	ys			
apobates didrachms					
1-13	Z 1-2-3 sys	1.0			
MOTVAION	linked to Moty	a and Segesta			
415-410 Marie II (A)	Panormos		1000	-410/405 ormos	
Motya II (A) dog didrachms	dog didrachm	s		adrachms	
18–25	1–8	•	0.0000000000000000000000000000000000000		crificing figure with
MOTVAION	ΠANORMIT	IKON	- 3	bull or ram	
	Pan 2		4	quadriga/Fe	emale head
	W. Sicilian hoard (to Pan 7)		-		
410-405					
Motya II (B)	Panormos		Pan	ormos	
dog didrachms	dog didrachms		tetradrachms		
26–30	9–11		10 \$y\$		
mtv	şyş		şyş		
405-397	405-380(?)		405	–late IV cent	ury
Motya III	Panormos		Panormos		
tetradrachms, didrachms	didrachms		tetradrachms		
37-50	12-13		II-	83	
405–late IV century					
Panormos tetradrach	ms	-	_		
11-21 fast quadriga		Eumenes style (e.			
sys		Eukleidas style (F Large head as Tu-			
shell added (O4))
22-24 crayfish, column (O	5)	 fish instead of dolphin (R 17, 19) corngrain instead of dolphin (R 21) 			
maeander (O 6)		Eukleidas head, corn ears (R 22)			
26-34 hippocamp (O 7, 8)		Kimon-derived head (R 23)			
		Kimonian head (R 28)	
					Contessa hoard (to 34)
1 (O \) 1	1	TZ: DI :::			c. 390/380 B.C.
35–41 ketos (O 9) no leger		Kimon-Phrygillo	s styl	e	
swan (O 10) no lego Tanit sign (O 10') 1		R 30 (new die.	link'	R 22	
sys legend (O 11)	io legend	R 30 (new die-link) R 33 R 33 (new die-link)			
ojo regena (O 11))) (1104)	/

42-51	walking quadriga (O 12)	Kimon-ish head (R 36)	
		- corngrain added (R 36')	
		Kimonian head (no. 43 a)	
	fast quadriga	Eukleidas-like head (R 37)	
	dolphin in ex (0 13)	Kimon-derived (?) head (R 38 etc.)	
		- corn grain (R 40)	
			Hoard G (to 50)
			c. 330 B.C.
52-61	dolphin (O 14)	indeterminate style (R 41 etc.)	
	no symbol (O 15)		Megara Hyblaia hoard
			1949 (to 5 0)
			c. 330/320 B.C.
	two dolphins (O 16)	inferior Euainetos style (R 48)	
62-70	thick ex. line (O 17, 18)	good Euainetos style (R 50)	
		- pellet (R 56)	
	thick ex. line (O 19)	- swastika (R 57)	
	, , ,	· · · · · · · · · · · · · · · · · · ·	S. Sicily hoard 1978
			(to 70 a) late IVc. B.C.
71–83	star, dolphins (O 20) no star, dolphins (O 21) details? (O 22)	Agathoklean heads R 58 etc.)	

Rslm qrt tetradrachms - summary

1–4	tast quadriga left – caduceus (O 1)	Melqart head (R 1) female head, dolphins (R 2 etc.) – corn grain (R 2')	
5–10	quadriga right	female head in sphendone – without sphendone (R 7)	
I I-22	quadriga left	large head, no wreath or sphendone Eukleidan head (R 10, 15)	(R 9, 11, 13)
21-30	quadriga right (O 10)	large head – corn grain R 14	
			Nissoria, Gibil Gabib hoards (to 18) c. 330 B.C.
	quadriga left (O 11–12) – caduceus (O 11)	large head – corn grain R 18 – fish instead of dolphin (R 21')	e. 550 21d.
	,	Euainetos type head with corn ears	(R 22, 23) Hoard G (to 29) c. 330 B.C.
31-70	quadriga right (O 13–23) left (O 19, 24) thick ex. line O 24	Euainetos type adaptations (R 24 et good and poor (e.g. R 45, 48) sty	
71-73	Agathoklean head (O 25) head left (O 26)	quadriga right horse and palm tree R 55	Pachino (to 64) 305 B.C.

Carthage Electrum triple-staters

Jenkins-Lewis group VIII, revised list

```
JL
     368
            Оі
            Rі
                    > 21.78 Private collection (formerly Palermo)
JL
     369
            О 1
                             Sotheby 20. 1. 1898, 109 (Archaeologist and Traveller)
            R 2
(JL) 369 A O I
            R 3
                    † 22.78 Brussels. Plate 16 A
JL
            Оі
     370
                    † 22.65 Paris Beistegui 54 = Hirsch 16, 700 = Hirsch 15, 1357
            R 4
JL
     37I
            Оі

→ 22.68 Gulbenkian 377 = Warren 1370 = AC 13. 393 = Sotheby

            R 5
                             2. 5. 1905, 183
                      22.49 MMAG 52, 1975, 258
JL
     372
            Оі
            R 6
                    22.75 Gulbenkian 378 = Walcher de Molthein 456, from Palermo 1870
                             (not Porto Empedocle)
                      22.78
                             Jameson 922
                             Berlin
                   ← 22.55
                    22.81
                             Lockett 1063
                    / 22.64 London PCG V. C. 28
JL
            Оі
     373
                             Engel-Gros 69 = Prowe 1904, 1784 = Hindamian 302
                      22.82
            R 7
JL
     374
            O 2
            R 7
                   > 22.53 Boston 505
JL
     375
            O 2
            R 6
                   ← 22.46 Lewis = Lucerne 1953, 210 = Sartiges 387 = Hirsch 21, 4675
                   ← 22.50 Paris Armand-Valton 590 (not Porto Empedocle)
JL
     376
            02
            R 8
                   / 22.58 Paris 158 (not Porto Empedocle)
```

Summary of Hoards

	Panormos	Rsmlqrt	Thermai	Carthage					
	Pai	Rsi	Ţ	Z	Syracuse	Corinth	Others		
	Series I								
390/380							a		
Ognina (2120) Contessa (2119)	21?	-		_	tetradrachms decad. tetr.	some	Sicil. Sicil.		
Giarre Riposto (2115)	34 34			47 —	decad. tett.	_	Naxos		
Vito Superiore (1910)	30	_		46	tetradrachms	some	Sicil.		
				Series 2					
330				ocrics 2					
Hoard G (IGCH -)	50	29	4	74	decad. tetr. pegasi	E	Sicil.		
Leonforte (2133)	-	18		75	decad. tetr. pegasi	E, N	1 Ath.		
Gibil Gabib (2132)	-	18	I	74	decad. tetr.	N			
330/320									
Megara Hyblaia 1949									
(2135)	50	_	-	129	tetr. pegasi	A, AA	-		
				Series 3 (4)					
320/310 Hoard X (IGCH –)	-	_	_	206 (271/2)	_	AIIAP	_		
30 5/ 300									
Pachino 1957 (2151)	-	64		242 (272)	Agath. quad.	all except	8 Alex.		
300					pegasi	AO	1 Ath.		
S. Sicily 1978	70a	па	га	246	decadrachms		1 Ath.		
					Agath. quad.	many	many Ath.		
Palermo 1933	-	47	_	265	Agath. quad.		- ^1		
S. E. Sicily 1977	_	47	-		Agath. quad. Agath. Nike	_	many Alex. many Ath.		
					11844411 1 1 1 1 1 1				
Early III c.				Series 5					
Sicily 1976/77	_	_		some	Agath. quad.	_	many Alex.		
							many Ath.		
Camarina-Scoglitti (2185)	-	-	-	411	Agath. Nike	many	1 Ath.		
				(+EL gp.V)	Agath. gold EL				
Cammarata (2182)	-	-	_	some	Agath. Nike	many	Selinus etc.		
Cefalú (2154)	-	66	-	396	Agath. Nike	-	1 Alex.		
1971 hoard					A NT'I		- A1-		
Megara Hyblaia 1967 (2180)	_	_	_	412	Agath. Nike pegasi	_	2 Alex. 2 Ath.		
(2200)	none of the Co			4.4	Labour				

	Panormos	Rsmlqrt	Thermai	Carthage			
	Pa	ž	F	Ü	Syracuse	Corinth	Others
Mineo (2184)	_	_	-	410	Agath. Nike	_	4 Ath.
Palma Montechiaro (2153)) —	-	-	some (+ EL)	_	many	Locri
Selinunte 1877 (2178)	-	39	<u> </u>	some (+ shekel as J–L 26. 14)	Agath. quad.	-	_
Sicily 1837 (2144)	-	_	_	some	pegasi	many	-
Other III c. Syracuse 1927 (2191)	-	-	-	148	_	-	2 Alex.
Syracuse 1955 (2179)	(2 - 5) (2 - 3)	=	***	194	Agath. Nike Agath. pegasi	incl.	4 Ath. 1 Alex.
				257	Agath. Nike	many	ı Alex.
Capo Soprano, Gela (2183)		_	-				ı Alex.
Capo Soprano, Gela (2183)	1	-	72 3	257 •	Agath. Nike	many	
Pachino (2186)	_	_		series 3 (+ EL?)	Agath. Nike Agath. reduced pegasi Agath. gold	-	
Palazzolo Acreide (2181)	-		-	series 3	Agath. Nike	many	-

Addenda

Plate 24 - Part IV

PT 38 a Panormos: O 10'-R 30, combination not recorded, but cf. SNR 1971 Panormos 36 (plate 10) for O 10-R 30. O 10' has the «sign of Tanit» added; R 30 now shows die-flaws not apparent on Panormos 36.

Schulman 264, 2976, 5047

PT 39 a Panormos: O 11-R 33, combination not recorded, cf. SNR 1971

Panormos 40-41 for the obverse, 39 for the reverse.

Schulman 264, 1976, 5048

Leu 20, 1978, 37

This variety is important for providing a connexion between the «swan» group (Panormos 35–38) and the sys group (Panormos 40–41), which was hitherto lacking. The attribution of the «swan» group to Kamarina, as suggested by Lederer (ZfN 1924, 184 ff.), is hereby decisively ruled out.

PT 43 a Panormos O 12-R new; the reverse die is clearly distinct from that of SNR 1971 plate 11 42-43 (R 36, 36').

Alex. G. Malloy, S. Salem, New York, 28. 2. 1972

PT 70 a Panormos O 19–R new; the reverse similar to R 57 is clearly a distinct die. S. Sicilian hoard 1978

R 11 a Rsmlqrt O 8-R 9, combination not recorded in SNR 1971. S. Sicilian hoard 1978

R 26 Rsmlqrt 26 (SNR 1971 plate 17); this specimen is clearly overstruck with traces of a previous type visible in the ex. of the obverse, and on the reverse the outlines of a previous head which appears to be a male head to right. The original head must have been one of Melqart, as on Rsmlqrt I (SNR 1971 plate 15), but probably not from the same die as Rsmlqrt I. The traces of the original obverse show the beginning of the legend, evidently of the same die as Rsmlqrt O I. Apart from confirming satisfactorily that the Melqart head must come at the beginning of the Rsmlqrt series, the specimen arouses curiosity as to why the Melqart head was first used then superseded.

Hoard G

Th 1 a Thermai: O 1-R new though of similar style to those of SNR 1971 plate 22, 1-3. S. Sicilian hoard 1978

C 28 a Carthage: O 7-R new, but similar to those of SNR 1974 plate 4, 25-28. Schweizerischer Bankverein 27. 11. 1977, 265.

A, B Same specimens as SNR 1971 plate 2, X, Y

C Obv. Head of Pan r. Rev. Three pellets; above +; to l. ivy-leaf; to r. horn.

Mini coll. 0.17 g

It seems possible, though less than certain, that this small silver fraction may p

It seems possible, though less than certain, that this small silver fraction may pertain to Panormos; the shortened legend recalls that of SNR 1971 plate 24, 1.

D Variant of the small silver type SNR 1971 plate 24, 7; here the obverse has bearded head to left, and on the reverse in the segments of the wheel appear to be dolphin (bottom r.) followed clockwise by Punic letters sys.

Mini coll. 0.26 g

- E, F Obv. female head l. without wreath or leaves; Rev. Horse's head r.
 - (F) Auctiones AG 8, 1978, 411. 0.58 g
 - (F) London, acquired 1848. 0.62 g

This type is mentioned by Müller (IV no. 129 a), citing only the London specimen. A third specimen is known from the Mongo hoard (IGCH 2312).

The head seems to resemble that of Rsmlqrt 26; if this is significant in such a way as to associate it with the Rsmlqrt series, it would provide a small denomination of that mint, hitherto lacking, and thus the possibility that future find spots might yet help to determine the location of the mint.

Index of specimens

Abbreviations M = Motya

PD = Panormos didrachms

PT = Panormos tetradrachms

R = Rsmlqrt Th = Thermai C = Carthage

Aberdeen (SNG I): C 11 90 163

AC (Ars Classica)

- 12: M 24 PT 35 R 9 25 34 47 55 69 C 17 20 84 96 115 158 161 170 181 218 237 284 285 298
- 13: PD 12 C 14 126 145 161 162 321 428
- 14: M 46 PT 35 R 14 C 6 20 31 71 127 142 242
- 15: PT 36 R 66 C 99 100 111 125 132 142 158 180 188 199 212 242
- 16: M 6 12 19 22 27 32 46 PT 35 52 65 80 R 20 21 23 48 54 56 C 17 94 99 112 124 130 145 153 161 162 186 188 191 396 399
- 17: M 47 PD 5 PT 28 R 43 C 257

Ahlström 6, 1974: C 257 382 - 14, 1977: C 399

Allotte de la Fuye (Florange-Ciani 1925): R 63 C 30 55 215 227 241 283 384 414

ANS: M 29 PT 29 48 53 60 71 72 R 6 18 20 22 25 26 29 38 40 44 47 49 54 71 Th 2 C 10 13 17 23 45 50 57 63 70 76 83 89 97 98 99 100 101 112 117 120 124 133 141 143 144 148 158 160 161 178 179 184 187 188 189 198 205 A 208 210 227 229 232 237 253 258 267 272 283 292 298 307 309 311 312 322 335 353 355 366 372 387 389 407 415 418 422

Archaeologist and Traveller (Sotheby 20. 1. 1898): PT 32 C 44 144

Ashburnham (Sotheby 1895): C 158 438

Auctiones AG 5: C 250 285 - 6: 192

Balmanno (Sotheby 1898): R 56 C 188

Baltimore, Johns Hopkins University: C 92 105 176 178 234 263

Baranowsky 1929 (Milan): R 19 – IV: PT 32 R 70 C 115 – VI: C 172 336 342 – 1934: R 38 C 143 217 341 360

Benson (Sotheby 1909): PT 23 35 39 63 81 R 39 C 13 41 89 133 164 178 181 291 366 376

Berlin, Staatliche Museen: M I 3 10 11 12 13 15 21 23 24 27 33 42 47 48 PD Z I 3 PT 14 20 24 27 28 33 39 40 42 50 59 60 62 63 64 69 70 71 75 82 R 13 16 17 30 39 43 46 48 49 56 60 71 Th 7 C 5 6 16 21 25 31 36 40 44 46 52 62 67 69 73 81 86 88 89 92 98 99 101 112 116 120 121 124 126 130 132 138 139 142 149 156 163 165 167 176 178 180 181 183 188 189 191 220 224 229 231 239 243 252 255 257 258 266 268 269 271 272 285 287 290 301 308 324 327 332 348 381 387 398 423 430 438 441

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Boston Museum of Fine Arts: M 12 PT 20 50 61 63 70 78 R 5 39 43 52 66 C 52 107 124 132 135 144 156 170 186 226 272 288 298 442

Brandis (Canessa 1922): R 35 C 686 222 247 299 315 317 368 412

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Brussels, Bibliothèque Royale: M I PT 26 31 32 33 69 78 83 R 37 41 69 - C 6 19 38 94
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  65: R 38
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  68: R44 C14 143 237 291
  71: PT 21 R 20 C 200 385
  75: R 14
  80: PT 21 R 20 C 88 148 200
  84: PT 52 R 38 C 153 189 320
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  331 332 336 445
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  1934: R 56 C 405
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  28. 11. 1904: R 31 38 48 C 28 65 242
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London, Victoria and Albert Museum (Salton): C 117 154

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O'Hagan (Sotheby 1908): R 23 48 C 445

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Paris, Bibliothèque Nationale: M 4 5 20 26 27 38 45 47 48 49 PD 5 PT 5 10 12 19 21 23 27 32 33 39 45 49 70 71 75 78 79 R 7 13 15 18 23 29 31 37 38 39 42 43 44 46 47 52 63 64 66 68 69 Th 4 5 7 C 3 5 10 14 15 20 24 31 32 33 34 36 41 44 52 54 56 58 63 65 84 88 89 92 94 98 101 116 126 130 132 134 139 141 148 153 156 164 165 168 170 176 177 178 179 182 184 186 204 205 A 212 213 217 218 227 231 237 241 242 243 249 254 256 257 266 270 271 272 274 277 280 287 294 298 308 309 317 325 326 346 350 357 363 367 374 376 381 401 402 428 434 439 440 441 445

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   5. 7. 1910: C 30 174
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  25. 5. 1925: C 146
  15. 11. 1927: C 10
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                          PD 2 PT 33 39 44 R 32 38 44 C 45 136 215 379
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50 R 26 27 29 Th 3 4 C 17 57 71 74

Hoard X (IGCH not: SNR 1977, 24 note 68): C 139 206 271

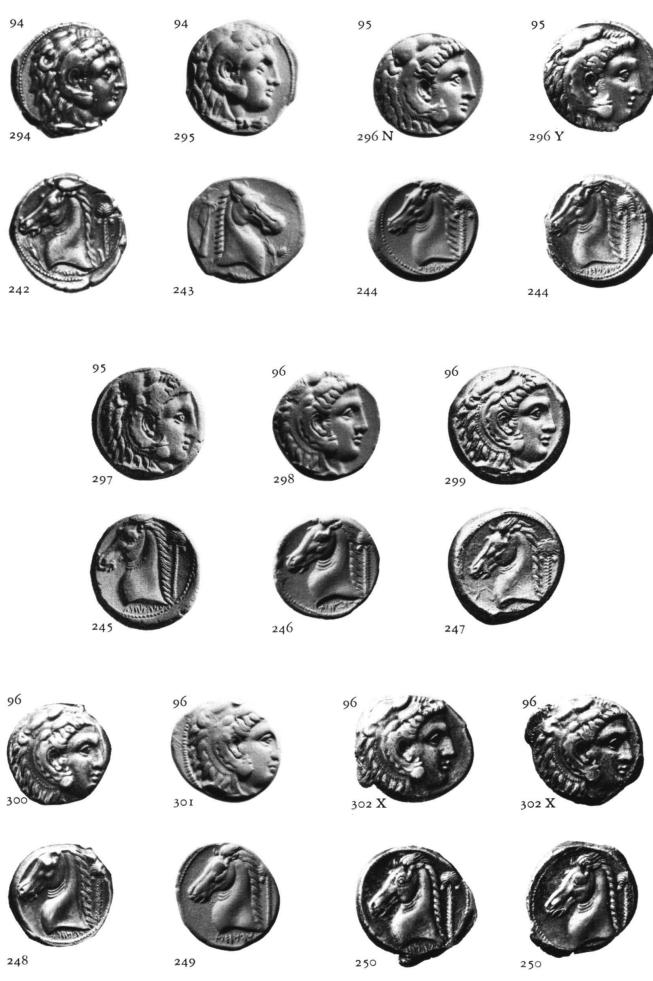


Series 5 a

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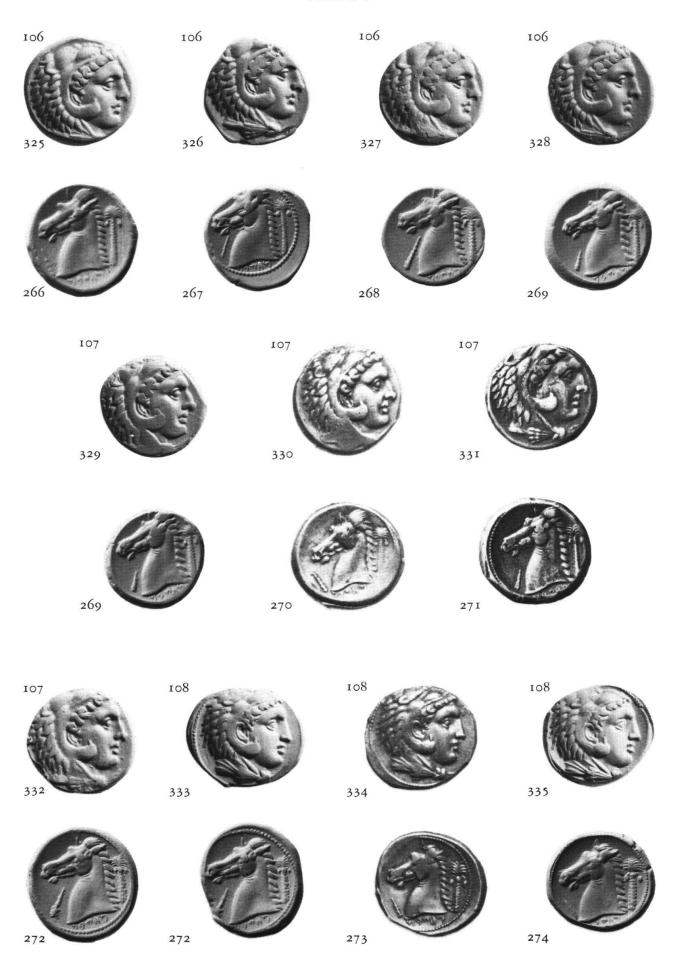
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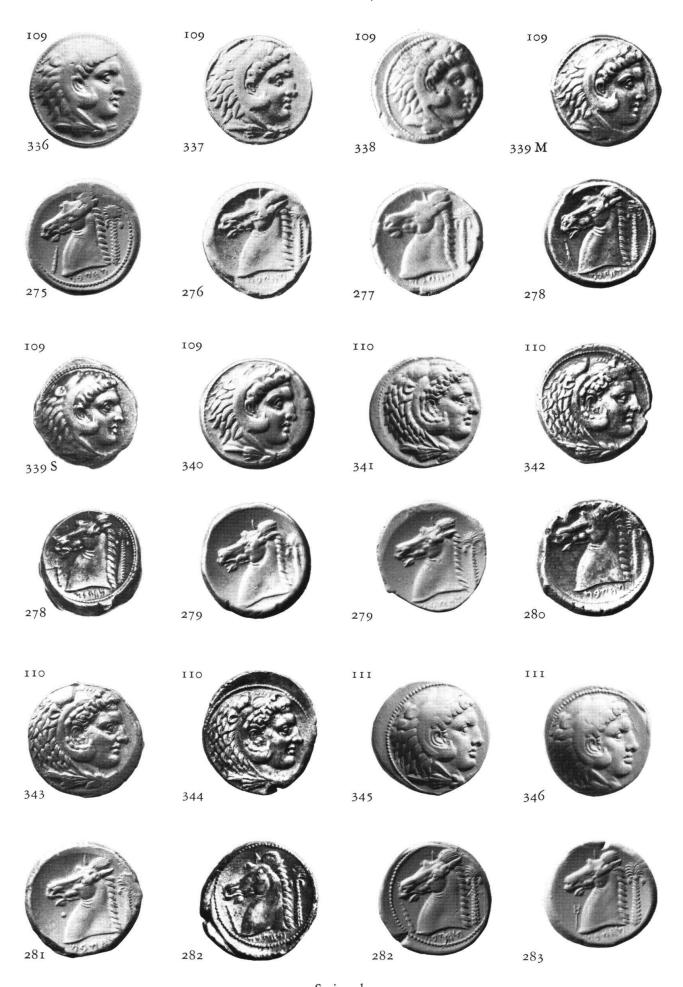
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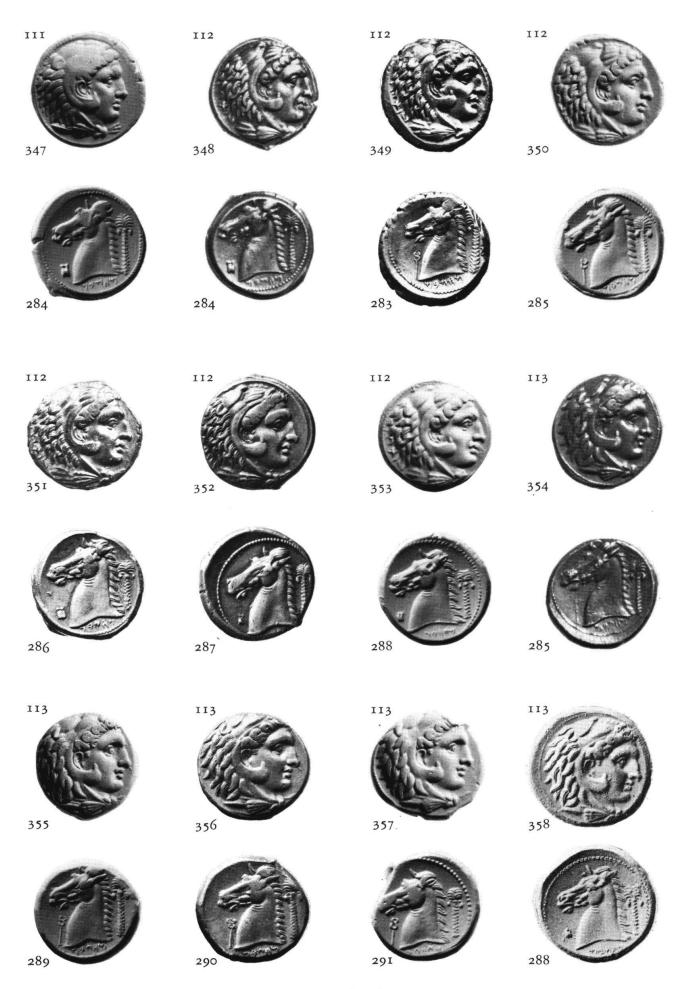
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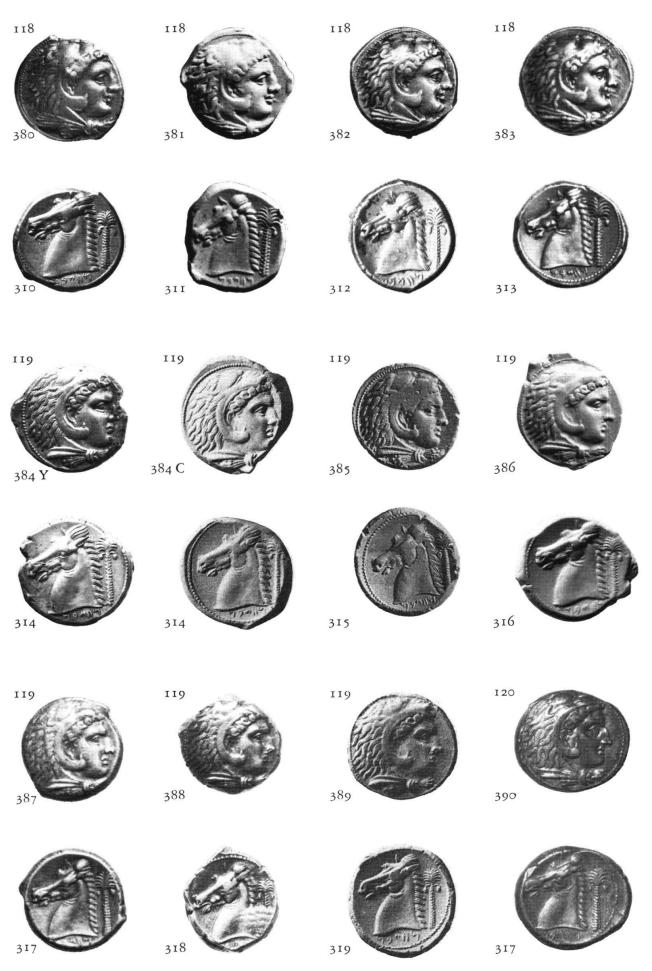
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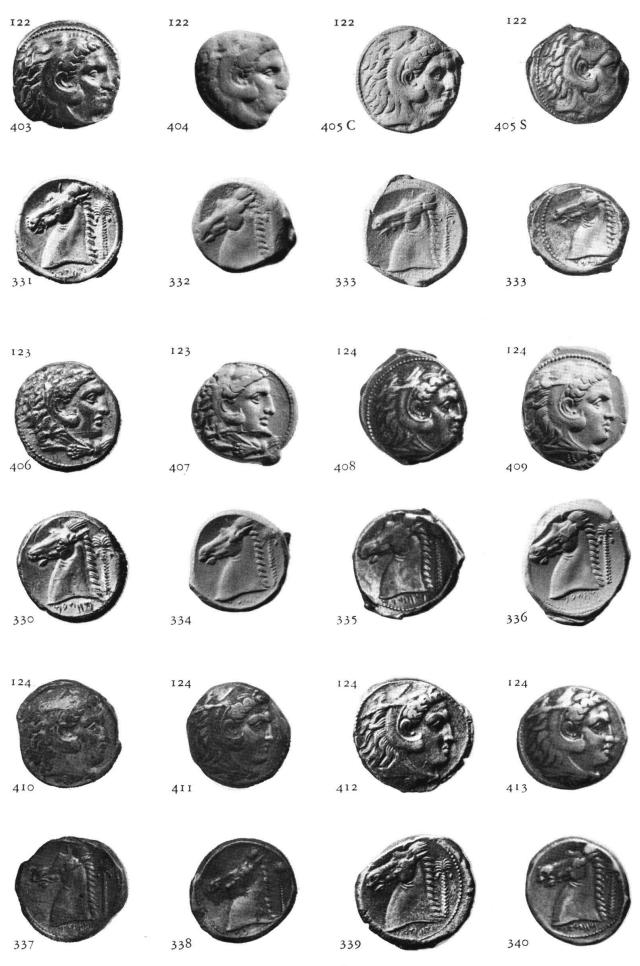


Series 5 b

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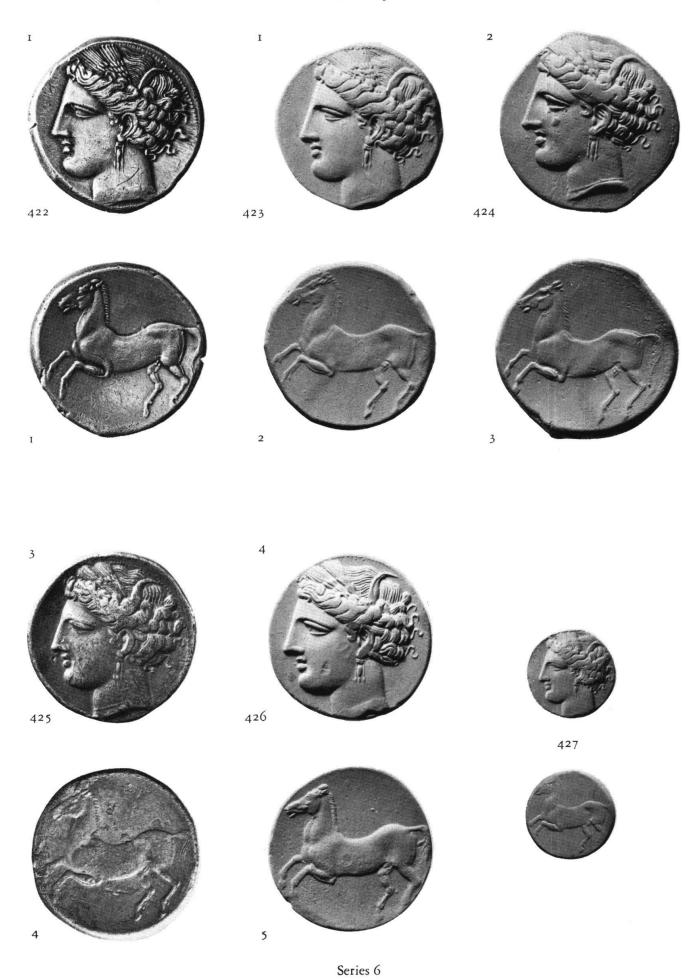


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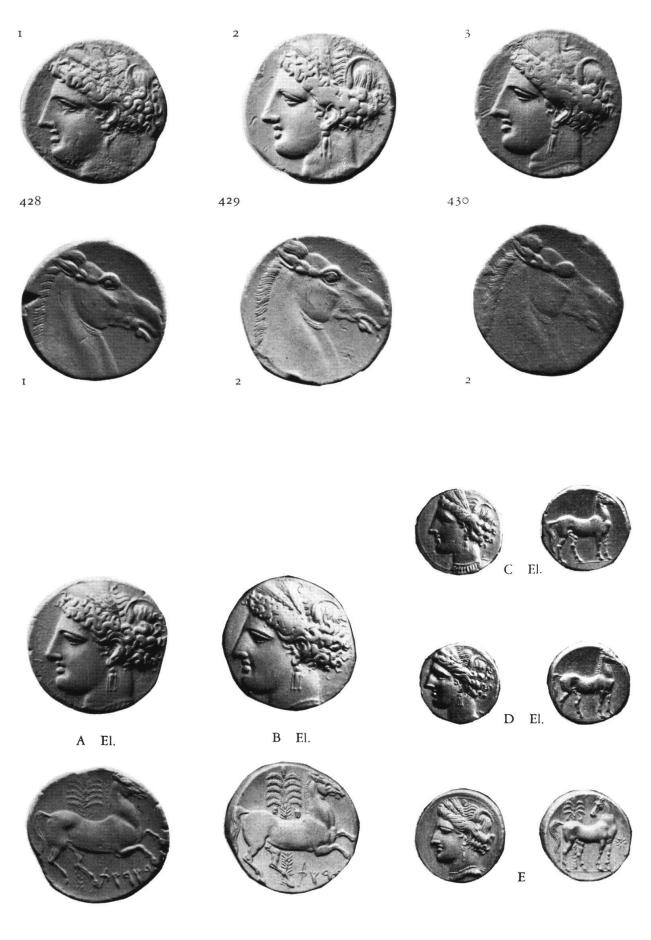
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