

737

L24



4/6

737

L24

0

119

~





COINS AND MEDALS.





79231

COINS AND MEDALS

THEIR PLACE IN HISTORY AND ART



BY THE AUTHORS OF
THE BRITISH MUSEUM OFFICIAL CATALOGUES

79231

EDITED BY
STANLEY LANE-POOLE

SECOND EDITION

WITH NUMEROUS ILLUSTRATIONS



LONDON: ELLIOT STOCK,
62, PATERNOSTER ROW, E.C.

1892.

CJ
75
L3
1892





P R E F A C E.



THE present work is intended to furnish an answer to a question that is often and properly asked about any study of which the use and advantages are not immediately obvious. In the following chapters we have attempted to show what coins can teach us; what is their value as documents of history and monuments of art; and what relations they bear to other branches of historical, artistic, and archæological research. The book will be found of service to the antiquary and the collector of coins; but it is primarily intended for the general student who wishes to know what he may expect to learn from any particular branch of numismatics.

The writers are or have been all Officers in the Department of Coins and Medals in the British Museum, except Professor Terrien de la Couperie and myself, who, however, have been entrusted with the task of preparing the Chinese and Mohammadan

Catalogues for the Department. A series of essays which appeared in the *Antiquary* in 1883 forms the nucleus of the volume; but these have been revised and enlarged, while additional chapters and illustrations have been incorporated. A few misprints have been corrected in this second edition, which is otherwise a reprint of the first.

In the absence of any general guide to the study of coins, of a popular character, in our language, it is hoped that the present work may prove of value to many who have been accustomed to regard the science of numismatics as little better than a distraction.

STANLEY LANE-POOLE.

ATHENÆUM CLUB,
June, 1892.





CONTENTS.

CHAPTER	PAGE
PREFACE - - - - -	v
I. THE STUDY OF COINS - - - - -	I
By REGINALD STUART POOLE, LL.D. Cambr., Yates Professor of Archæology at University College, London; author of the Catalogues of the Greek Coins of <i>Alexandria, the Ptolemaic Kings, and the Shabs of Persia.</i>	
II. GREEK COINS - - - - -	10
By BARCLAY V. HEAD, D.C.L. Durham; Ph.D. Heidelberg; author of the Catalogues of the Greek Coins of <i>Macedonia, Central Greece, Attica, Corinth, and Ionia</i> ; and <i>Guide to the Coins of the Ancients.</i>	
III. ROMAN COINS - - - - -	42
By HERBERT A. GRUEBER, F.S.A.; author of the Catalogue of <i>Roman Medallions</i> , and <i>Guide to English Medals</i> ; and joint author of <i>Medallic Illustrations of the History of Great Britain and Ireland.</i>	
IV. THE COINAGE OF CHRISTIAN EUROPE	74
By CHAS. F. KEARY, M.A., F.S.A.; author of the Catalogue of <i>Anglo-Saxon Coins</i> , and <i>Guide to Italian Medals.</i>	

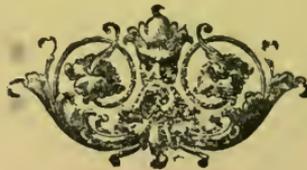
CHAPTER	PAGE
V. ENGLISH COINS - - - - -	99
By CHAS. F. KEARY, M.A., F.S.A.	
VI. EARLY ORIENTAL COINS - - - - -	141
By PERCY GARDNER, LITT.D., F.S.A., Lincoln Professor of Archæology, Oxford ; author of the Catalogues of the Greek Coins of the <i>Seleucid Kings, Thessaly, Peloponnesus</i> , and the Catalogue of the Indian Coins of the <i>Greek and Scythic Kings</i> .	
VII. MOHAMMADAN COINS - - - - -	156
By STANLEY LANE-POOLE, B.A., Oxford ; author of the Catalogues of the Oriental Coins of the <i>Eastern Khalifehs, Mohammadan Dynasties, The Turkumans, Egypt, The Moors, The Mongols, Bukhara, The Turks</i> , and <i>Additions</i> thereto ; the Catalogues of the Indian Coins of <i>The Sultans of Dehli, The Mohammadan States of India, The Moghul Emperors of Hindustan</i> ; and the Catalogue of <i>Arabic Glass Weights</i> .	
VIII. COINS OF INDIA - - - - -	175
By PERCY GARDNER AND STANLEY LANE-POOLE.	
IX. COINS OF CHINA AND JAPAN - - - - -	190
By TERRIEN DE LA COUPERIE, author of the Catalogue of <i>Ancient Chinese Coins</i> .	
X. MEDALS - - - - -	236
By WARWICK WROTH, F.S.A. ; author of the Catalogues of the Greek Coins of <i>Crete, Pontus, and Mysia</i> .	
INDEX - - - - -	271



LIST OF ILLUSTRATIONS.

	PAGE
SILVER COIN OF THASOS -	20
SILVER COIN OF TARENTUM -	22
SILVER COIN OF GELA -	24
SILVER COIN OF SELINUS -	25
SILVER COIN OF AGRIGENTUM -	26
SILVER COIN WITH HEAD OF MITHRADATES -	33
SYRACUSAN MEDALLION -	37
SEXTANTAL AS -	47
DENARIUS -	51
COIN OF BRUTUS -	53
SESTERTIUS OF VESPASIAN -	62
MEDALLION OF ANTONINUS PIUS -	72
COIN OF CHLOVIS II. -	79
COIN OF CUNIPERT -	79
COIN OF POPE ADRIAN I. -	80
CARLOVINGIAN DENARII -	82
FIORINO D'ORO -	88
COIN OF THE FIFTEENTH CENTURY -	91
BRITISH GOLD COIN -	101
PENNY OF OFFA -	105
NOBLE OF EDWARD III. -	110
ANGEL OF EDWARD IV. -	113
SOVEREIGN OF HENRY VII. -	119
OXFORD CROWN OF CHARLES I. -	135

	PAGE
COIN OF AN EARLY PARTHIAN KING - - -	147
COIN OF ARTAXERXES I. - - -	149
EARLY JEWISH SHEKEL AND HALF SHEKEL - -	153
COIN OF SIMON BAR COCHAB - - -	154
GOLD COIN OF 'ABD-EL-MELIK, KHALIF OF DAMASCUS -	164
REFORMED GOLD COIN OF 'ABD-EL MELIK - -	165
SILVER COIN OF THE KHALIFATE - - -	166
MARAVEDI : GOLD COIN OF ALMORAVIDES - -	170
MILLARES : SILVER COIN OF ALMOHADES - -	170
SILVER COIN OF HOSEYN, SHAH OF PERSIA - -	171
GOLD COIN OF ALMOHADES - - -	173
COIN OF ANTIMACHUS, INDIAN KING - - -	176
COIN OF HIPPOSTRATUS - - -	178
COIN OF HERAUS, KING OF THE SACAE - - -	178
GOLD MOHR OF JEHANGIR - - -	189
KNIFE MONEY - - -	205
ITALIAN MEDAL : PORTRAIT OF MALATESTA, BY PISANO	241
GERMAN MEDAL : PORTRAIT OF RINGELBERG - -	247
DUTCH MEDAL : PORTRAITS OF THE DE WITTS - -	252
ENGLISH MEDAL : PORTRAITS OF PHILIP AND MARY -	253





COINS AND MEDALS.

CHAPTER I.

THE STUDY OF COINS.



OF all antiquities coins are the smallest, yet, as a class, the most authoritative in record, and the widest in range. No history is so unbroken as that which they tell; no geography so complete; no art so continuous in sequence, nor so broad in extent; no mythology so ample and so various. Unknown kings, and lost towns, forgotten divinities, and new schools of art, have here their authentic record. Individual character is illustrated, and the tendencies of races defined.

To be a good Greek numismatist one must be an archaeologist; and it is a significant fact, that the only archaeological book of the last century which still holds its own is the *Doctrina Numorum Veterum* of Eckhel, now near its centenary. To

be a great general numismatist is beyond the powers of one man. Some may know Greek and Latin enough, with such mastery of English, French, German, and Italian as the modern commentaries demand, to begin the study of Greek and Roman money. Those who would enter the vast field of Oriental numismatics must be fortified with Arabic, Hebrew, Sanskrit, and Persian, besides adding Spanish and Russian to the other European languages still necessary for their work. Even they must pause beneath the Himalayas, nor dare to cross the Golden Chersonese, unless they are prepared to master the uncouth languages and intricate characters of the further East. So vast a subject, and one needing such high training, has between Eckhel's time and ours attracted few great students. Coins have been used as helps by archaeologists; but the great numismatist, who could master the richest provinces of the East or the West, or even both, and dignify his science as no longer servile but masterly, is of our contemporaries. Such was De Saulcy, who has but lately left us to lament how much remained untold by a mind signally fruitful in giving forth its manifold treasures. He has had his rivals, and he has his followers, some, like François Lenormant, who have already followed him, others, like Mommsen, still living to maintain the high position recovered for numismatics.

Greek
Coins.

Thanks to their attractive beauty, and the skill of Eckhel, Greek coins have been best examined, and most carefully described; yet much remains

unknown and unrecorded. Besides the treasures we are constantly digging out of well-known collections, every year brings to light from under the earth coins of new kings or cities, coins with fresh types of divinities and representations of famous statues. Most of these works, whether familiar or new in type, have the charm which the great gift of the Hellenic race, artistic power ruled by measure and form, threw over all that it handled. Thus Greek coins are the grammar of Greek art. In them we may trace its gradual growth, the stern grandeur of the last days of archaism, and the sudden outburst of full splendour, more marked in coins, however, by the influence of the contemporaries and followers of Pheidias than by that of the great sculptor himself. While the original sculpture of this age, in marble and bronze, might be contained within the walls of a single museum, the coin-types may be counted by thousands. No restorer has touched them, nor are they late copies, like the Latin translations of Greek originals which confuse the judge of statues. Small indeed they are; yet large in treatment, and beautiful in material, whether it be rich gold, or the softer-toned electrum, or cold silver, or bronze glorified by the unconscious colouring of the earth in which the coins have lain for centuries. Sometimes we can see the copy of a statue,—no servile reproduction, but with such proof of free work in varieties of attitude as shows that the artist, strong in his power, was working from memory. Such is the Herakles of Croton, recalling a kindred

statue to the so-called Theseus of the Parthenon. Bolder masters took a theme like the winged goddess of Terina, and varied it with an originality which showed they were worthy peers of the sculptors and painters. Croton is a town with some place in history; but who, save a numismatist, has any thought for Terina, famous only for the survival of her exquisite coinage?

Schools of
Art.

While the sequence of styles is thus recorded, the study of coins unexpectedly reveals the existence of local schools; shows in the marked mannerism of the Italians, and still more of the Sicilians, that they worked under the influence of gem-engravers; while the strong central school of Greece was ruled by sculpture; the gentler and more sympathetic rival of Western Asia Minor obeyed the taste of painters; and the isolated Cretans, leading a simpler and less cultured life, expressed their feeling in a free naturalism. The larger schools again had their divisions, marking such local differences as those with which the study of mediæval Italian art has made us acquainted.

Portraits.

With the age of Alexander all art is centralized in royal capitals, and provincial feeling disappears. The great styles can still be traced in the money of the kings, the lofty naturalism of Lyfippus, the dramatic force of the Pergamene masters, the theatrical tendency of their successors. This we see in royal portraits; while the decline and the commercial tendency of art is witnessed by the heraldic quality of the less important types.

The eye, dazzled with the beauty of Greek

money, is apt to take little heed of the knowledge lying beyond the province of art which is held within the narrow circle of a coin. Yet the mythological interest is only second to the artistic; and when the artist had lost his skill he produced those neglected pieces of inferior work, the Greek money of the Imperial age, which preserve the forms of famous temples, of great statues, and even of pictures otherwise finally lost to us.

The artists who engraved the Greek Imperial money, called to Rome, worked there for alien masters. Mere copyists they were; yet more exact in portraiture, and better historians than their great predecessors. Too weak to be original, they were more faithful in rendering the present. To them we owe the marked lineaments of the earlier series of Emperors, the cold Augustus; the coarse Vitellius; Trajan, the simple soldier; Hadrian, the polite man of the world; and the philosophic Antoninus and Aurelius, with their wayward and luxurious wives. These engravers have left us a record of the art produced at Rome, and the art that was stored at Rome from the spoils of Greece, great buildings and famous statues, with here and there a subject foreshadowing in a new turn of style, of Roman birth, the future splendour of the Renaissance. But for history these men worked best, telling the story of the first two centuries and a half of the Empire with a fulness that has entitled their money to be called an Imperial Gazette. Thus while Hadrian was visiting the distant provinces, the Roman people,

Roman
Coins.

when they went to market, saw in the new festertii, the magnificent bronze currency, the portrayal of the movements of the distant Emperor.

The Middle Ages.

The transition from Roman to mediaeval money is not sudden. The one decays, and the other rises from its ruins, owing as much and as little to it as the architecture of the Middle Ages owed to that of the Empire—as much in form, as little in spirit. Here history divides with art the claim to our attention. At first the interest is centred in the gradual introduction of Roman money among the barbarian conquerors of the Empire; but by degrees the growth of art attracts us, and we watch the same process that marked the history of Greek coinage—the same succession of styles, the same peculiarities of local schools. But the art of the Middle Ages in the coins never rises beyond the limits of decoration; and it is not till the classical Renaissance that we discover a worthy rivalry of the ancient masters. The beginning of medals is of the time, if not due to the genius, of Petrarch; and the earliest works are of his friends the Lords of Carrara; but it was not till the middle of the fifteenth century that the great medallic art of Italy had its true origin. Pisano of Verona, who glories in the name of painter, was at once the founder of the art, and by far its greatest master. His works are larger in size than the coins of antiquity and the Roman medallions, and are cast, not struck, in fine bronze. Despite an inferiority to Greek money in the sense of beauty, the best Italian medals have a dignity of

Italian Medals.

portraiture, and a felicity of composition, that places them in only the second rank, below the Greek works indeed, yet above the Roman. For if the Italian medallist had not the same sense of beauty, he had the power of idealizing portraiture, not with the view of elevating the physical so much as the moral qualities. Pisano, notably, represented a man with all the possibilities of excellence that lay within his compass; and thus he is the greatest of those medallists who worked in portraits.

Modern coins of the European states and their colonies are the lowest in interest, and the medals of their great personages the least lively in portraiture. But they have an historic value that entitles them to a place in all representative collections, as at least useful illustrations of the contemporary annals, and the readiest means of bringing before the eye the chief figures of the times. A closer study reveals new and curious facts, and the character of the king or the tendencies of the state receive an unexpected illustration.

Oriental money, of larger range and more individuality than European, is worthy of more attention than it has received. The great branch of Mohammedan coinage is invaluable for a period of history when written records are often wanting or little to be trusted. Its decorative art has a charm in the finest work of the Shahs of Persia and the Indian Emperors, but rarely is it more than a delicate rendering of an ornamental writing. The inscriptions give the coins their

true value, the dates and mints fixing the extent of a king's dominion, or recording the fact that he actually exercised the royal prerogative of coining. These legends have a bearing on the differences of race and faith, and even of literature and manners. The western Arabs coined their money with elaborate religious formulas, the heretical Khalifs of the race of 'Aly used mystical inscriptions, the Persians, the Indian Emperors and the Afghans inscribed poetic couplets, hard to decipher, from the occasional disregard of the order of words, and difficult to interpret, from the high-flown phrases in which royalty turned the language well-called the Italian of the East. Despite the general absence of figures, the result of the law of the Koran, there are some notable exceptions, as in the Turkoman coinage of the age of the Crusades, and the famous zodiacal coins of Jehángír and his still stranger Bacchanalian money, on which we see the emperor seated, holding the forbidden wine-cup in his hand.

Yet earlier in origin than the Mohammedan coinage, the native money of India has, like it, survived to our time. Beginning with the interesting Indian coins of the Greek princes, the so-called Bactrian money, and the contemporary rude punch-marked square pieces of native origin, it passes into the gold currency of the Guptas with interesting mythological subjects, Greek, Roman, and Indian, including a representation of Buddha, and closes with the Sanskritic money of our own time. Beyond India, China and the

neighbouring lands have their money as unlike that of the rest of the world as all else in the Far East, valuable alone for history, and for it most valuable; and curious for the occasional departure from the forms which we associate with the idea of coined money.





CHAPTER II.

GREEK COINS.

Bullion
Money.



ANY centuries before the invention of the art of coining, gold and silver in the East, and bronze in the West, in bullion form, had already supplanted barter, the most primitive of all methods of buying and selling, when among pastoral peoples the ox and the sheep were the ordinary mediums of exchange. The very word *pecunia* is an evidence of this practice in Italy at a period which is probably recent in comparison with the time when values were estimated in cattle in Greece and the East.

The Inven-
tion of
Coinage.

“So far as we have any knowledge,” says Herodotus,¹ “the Lydians were the first nation to introduce the use of gold and silver coin.” This statement of the father of history must not, however, be accepted as finally settling the vexed question as to who were the inventors of coined money, for Strabo,² Aelian,³ and the Parian Chronicle, all agree in adopting the more commonly received tradition, that Pheidon, King of

¹ i. 94.

² viii. 6.

³ *Var. Hist.*, xii. 10.

Argos, first struck silver coins in the island of Aegina. These two apparently contradictory assertions modern research tends to reconcile with one another. The one embodies the Asiatic, the other the European tradition; and the truth of the matter is that gold was first coined by the Lydians, in Asia Minor, in the seventh century before our era; and that silver was first struck in European Greece about the same time.

The earliest coins are simply bullets of metal, oval or bean-shaped, bearing on one side the signet of the state or of the community responsible for the purity of the metal and the exactness of the weight. Coins were at first stamped on one side only, the reverse showing merely the impress of the square-headed spike or anvil on which, after being weighed, the bullet of hot metal was placed with a pair of tongs and there held while a second workman adjusted upon it the engraved die. This done, a third man with a heavy hammer would come down upon it with all his might, and the coin would be produced, bearing on its face or *obverse* the seal of the issuer, and on the reverse only the mark of the anvil spike, an *incuse* square. This simple process was after a time improved upon by adding a second engraved die beneath the metal bullet, so that a single blow of the sledge-hammer would provide the coin with a *type*, as it is called, in relief, on both sides. The presence of the unengraved incuse square may therefore be accepted as an indication of high antiquity, and nearly all Greek

Earliest
and Later
Methods of
Coining.

coins which are later than the age of the Persian wars bear a type on both sides.

Scientific
Value of
Greek
Coins.

The chief scientific value of Greek coins lies in the fact that they are original documents, to which the experienced numismatist is generally able to assign an exact place in history. The series of the coins of any one of the cities of Greece thus forms a continuous comment upon the history of the town, a comment which either confirms or refutes the testimony which has been handed down to us by ancient writers, or, where such testimony is altogether wanting, supplies valuable evidence as to the material condition, the political changes, or the religious ideas of an interval of time which, but for such evidence, would have been a blank in the chart of the world's history.

Perhaps the most attractive side of this enticing study lies in the elucidation of the meaning of the objects represented on coins, in other words, in the explanation of their types.

The history of the growth, bloom, and decay of Greek art may also be traced more completely on a series of coins which extends over a period of close upon a thousand years than on any other class of ancient monuments.

Types.

Greek coin-types may be divided into two distinct classes: (*a*) Mythological or religious representations, and (*b*) portraits of historical persons.

Religious
Aspect.

From the earliest times down to the age of Alexander the Great the types of Greek coins are almost exclusively religious. However strange this

may seem at first, it is not difficult to explain. It must be borne in mind that when the enterprising and commercial Lydians first lighted upon the happy idea of stamping metal for general circulation, a guarantee of just weight and purity of metal would be the one condition required. Without some really trustworthy warrant, what merchant would accept this new form of money for such and such a weight without placing it in the scales and weighing it according to ancient practice? In an age of universal religious belief, when the gods lived, as it were, among men, and when every transaction was ratified by solemn oath, as witness innumerable inscriptions from all parts of the Greek world, what more binding guarantee could be found than the invocation of one or other of those divinities most honoured and most dreaded in the district in which the coin was intended to circulate?

There is even good reason to think¹ that the earliest coins were actually struck within the precincts of the temples, and under the direct auspices of the priests; for in times of general insecurity by sea and land, the temples alone remained sacred and inviolate. Into the temple treasuries offerings of the precious metals poured from all parts. The priestly colleges owned lands and houses, and were in the habit of letting them on lease, so that rents, tithes, and offerings would all go to fill the treasure-house of the god. This accumulated mass of wealth was not left to lie idle in the

Temple
Coinage.

¹ Prof. E. Curtius, *Numismatic Chron.*, 1870, p. 92.

sacred chest, but was frequently lent out at interest in furtherance of any undertaking, such as the sending out of a colony, or the opening and working of a mine; anything, in fact, which might commend itself to the sound judgment of the priests: and so it may well have been that the temple funds would be put into circulation in the form of coin marked with some sacred symbol by which all men might know that it was the property of Zeus, or Apollo, or Artemis, or Aphrodite, as the case might be. Thus coins issued from a temple of Zeus would bear, as a symbol, a thunderbolt or an eagle; the money of Apollo would be marked with a tripod or a lyre; that of Artemis with a stag or a wild boar; that of Aphrodite with a dove or a tortoise—a creature held sacred to the goddess of Love, in some of whose temples even the wooden footstools were made in the form of tortoises.

State
Coinage.

In this manner the origin of the stamps on current coin may be explained. But throughout the Greek world the civic powers almost everywhere stepped in at an early date, and took over to themselves the right of issuing the coin of the state. Nevertheless, care was always taken to preserve the only solid guarantee which commanded universal respect, and the name of the god continued to be invoked on the coin as the patron of the city. No mere king or tyrant, however absolute his rule, ever presumed to place his own effigy on the current coin, for such a proceeding would, from old associations, have been regarded as little

short of sacrilege. In some rare cases, indeed, the right of coinage would even seem to have been retained by the priests down to a comparatively late period; for coins exist, dating from the fourth century B.C., which were issued from the famous temple of the Didymean Apollo, near Miletus, having on the obverse the head of Apollo laureate and with flowing hair; and on the reverse the lion, the symbol of the sun-god, and the inscription ΕΓ ΔΙΔΥΜΩΝ ΙΕΡΗ, "sacred money of Didyma."

We will now select a few of the almost innumerable examples of ancient coin-types in illustration of the religious signification of the symbols which appear upon them.

First in importance comes the plentiful coinage ^{Aegina.} of the island of Aegina, issued according to tradition by Pheidon, King of Argos, probably in the sanctuary of Aphrodite, in Aegina, the first European mint. These coins bear the symbol of the goddess, a tortoise or turtle; and they were soon adopted far and wide, not only throughout Peloponnesus, but in most of the island states, as the one generally recognised circulating medium. When Pheidon first issued this new money, he is said to have dedicated and hung up in the temple of Hera, at Argos, specimens of the old cumbrous bronze and iron bars which had served the purpose of money before his time.

Passing from Aegina to Athens, we have now ^{Athens.} before us the very ancient coins which Solon struck when he inaugurated that great financial reform



which went by the name of the Seifachtheia, a measure of relief for the whole population of Attica, then overburdened by a weight of debt. By the new law then enacted (circ. B.C. 590), it was decreed that every man who owed one hundred Aeginetic drachms, the only coin then current, should be held exempt on the payment of one hundred of the new Attic drachms, which were struck of a considerably lighter weight than the old Aeginetic coins.

The type which Solon chose for the new Athenian coinage was, like all the types of early Greek money, purely religious. On the obverse we see the head of Athena, the protecting goddess of the city; and on the reverse her sacred owl and olive-branch. These coins were popularly called *owls*, *γλαῦκες*, or *maidens*, *κόραι*, *πάρθενοι*. Aristophanes, who not unfrequently alludes to coins, mentions these famous owls in the following lines, where he promises his judges that if only they will give his play their suffrages, the owls of Laurium shall never fail them :

First, for more than anything each judge has this at heart,
Never shall the Laureotic Owls from you depart,
But shall in your houses dwell, and in your purses too
Nestle close, and hatch a brood of little coins for you.¹

Delphi.

Passing now into Central Greece, let us pause for a moment at Delphi, the religious metropolis of the Dorian race. Delphi was essentially a temple-state, independent of the Phocian territory

¹ *Birds*, 1106 (Kennedy).

in the midst of which it was situated. It was, moreover, the principal seat of the sacred Amphictyonic Council. Here were held the great Pythian Festivals, to which all who could afford it flocked from every part of the Hellenic world. The town of Delphi, which grew up at the foot of the temple of Apollo, on the southern slope of Parnassus, was in early times a member of the Phocian Convention; but as the temple increased in wealth and prestige, the Delphians claimed to be recognised as an independent community; a claim which the Phocians always strenuously resisted, but which the people of Delphi succeeded at length in establishing. The town, however, as such, never rose to any political importance apart from the temple, upon which it was always *de facto* a mere dependency.

As might be expected, the coins issued at Delphi are peculiarly temple coins; and were probably struck only on certain special occasions, such as the great Pythian Festivals, and the meetings, called *Πυλαία*, of the Amphictyonic Council, when many strangers were staying in the town, and when money would consequently be in request in larger quantities than usual. At such times markets or fairs were held, called *πυλατίδες ἀγοραί*, for the sale of all kinds of articles connected with the ceremonies and observances of the temple; and at these markets a coinage issued by the priesthood, which all alike might accept without fear of fraud, would be a great convenience.

The usual type of this Delphian temple money

was a ram's head; the ram, *κάρνος*, being the emblem of Apollo, *καρνειός*, the god of flocks and herds. There is also another emblem, which, although it is usually only an accessory symbol, and not a principal type, must not be passed over in silence, the dolphin (*δελφίς*). Here we have an allusion to another phase of the cultus of Apollo, who, as we read in the Homeric hymn to Apollo,¹ once took the form of a dolphin when he guided the Cretan ship to Crissa, whence, after commanding the crew to burn their ship and erect an altar to him as Apollo Delphinios, he led them up to Delphi, and appointed them to be the first priests of his temple.

On another coin struck at Delphi we see the Pythian god seated on the sacred Omphalos, with his lyre and tripod beside him, and a laurel-branch over his shoulders; while around is the inscription AMΦIKTIONΩΝ, proving the coin to have been issued with the sanction of the Amphictyonic Council.

Boeotia.

In the coinage of the neighbouring territory of Boeotia, the most striking characteristic is that it is a so-called *Federal Currency*; that is to say, that the various Boeotian cities possessed from first to last sufficient cohesion to be able to agree upon a common type, which might serve to distinguish the Boeotian currency from that of other states. This is the more remarkable when we remember the fierce political feuds which from the earliest times divided Boeotia into several hostile camps.

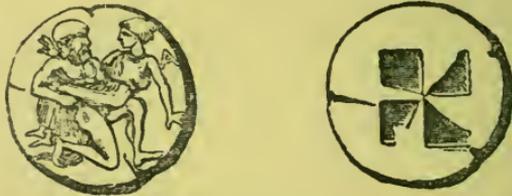
¹ l. 390, *seqq.*

Here then we have a clear proof that the *Buckler*, which is the type from the earliest times to the latest of all Boeotian money, is no mere political emblem, but a sacred symbol, which friends and foes alike could unite in reverencing; just as in mediæval times all Christians, however hostile to one another, and to whatever land they might belong, were ready to pay homage to the sign of the Cross. To what divinity this Boeotian shield especially belongs we do not know for certain, but the Theban Herakles has perhaps the best claim to it.

The cities of Boeotia, however, while they all agreed to accept the buckler as the distinctive badge of their money, nevertheless asserted their separate and individual rights on the reverse side of their coins. On the obverse we here get uniformity, on the reverse variety, and yet among all the various types on the reverses of the coins of the Boeotian cities, there is not one which is not distinctly religious, whether it refer to the worship of Herakles or Dionysos at Thebes, to Poseidon at Haliartus, to Apollo as the sun-god at Tanagra, or to Aphrodite Melainis as a moon goddess at Thespiæ. Sometimes the god himself is directly portrayed, sometimes his presence is veiled under some symbolic form, as when the amphora or the wine-cup stands for Dionysos, the club for Herakles, the trident for Poseidon, the wheel for the rolling disk of the sun-god, and the crescent for the goddess of the moon.

Proceeding now northwards through Theffaly Thrace.

and Macedon, we come upon a region where silver money was coined in very early times, probably long before the Persian invasion, by the mining tribes who inhabited the mountainous district opposite the island of Thasos. Here again we find the same close connection between the religion of the people and the types of their coins. The subjects represented on the money of this northern land are Satyrs and Centaurs bearing off struggling nymphs, rudely but vigorously executed, in a style of art rather Asiatic than Hellenic.



SILVER COIN OF THASOS.

Such types as these bring before us the wild orgies which were held in the mountains of Phrygia and Thrace, in honour of the god Sabazius or Bacchus, whose mysterious oracle stood on the rugged and snow-capped height of Mount Pangaeum, while around, among the dark pine forests, clustered the village communities of the rude mining tribes who worked the rich veins of gold and silver with which the Pangaeian range abounded.

Ephesus. We will now take an example from Asia Minor, where we shall find the same invariable connection between the coinage and the local religious cultus.

The coins of the great city of Ephesus, "first

city of Asia," are from very early times marked with a bee on one side, and a stag and palm-tree on the other. The hierarchy of the Ephesian Artemis consisted of a college of priests, at the head of which was a High Priest called Ἐσοήν (the king bee), the leader of the swarm, while his attendant priestesses bore the name of Melissæ or Bees; and however difficult it may be for us to seize the exact idea which was intended to be conveyed by this symbol, there can be no doubt that it was one of the most distinctive emblems of the Ephesian goddess in her character of a goddess of nature. The stag is a symbol which every reader of the Greek poets will at once recognise as belonging to Artemis, as is also the sacred palm-tree, *πρωτόγονος φοῖνιξ*, beneath which Leto was fabled to have brought forth Apollo and his sister Artemis.

In the West, no less than in Greece and Asia, the ^{Etruria.} religious aspect of the coin-types is very striking. Thus on Etruscan coins we meet with the head of the gorgon Medusa and of Hades. Here, too, we see Cerberus and griffins and sphinxes and chimaeras, as well as the head of a priest or augur—types which are symbolical of those gloomy and fantastic ideas connected with death and the world of shades which were peculiarly characteristic of the strange uncanny beliefs of the Etruscans.

In the fertile and vine-growing ^{Campania} Campania, on the other hand, the most frequent reverse type is a human-headed bull, a tauriform Chthonian divinity or Earth-god, worshipped very generally throughout

Southern Italy under the name of Dionyfos Hebon ; a god whose nature partook both of that of Hades and of Dionyfos, and who was associated with a female divinity, resembling both Persephone and Ariadne, a personification of the eternal renewal of nature in the spring-time. The beautiful head of this goddess is the constant obverse type of the money of Neapolis (Naples).



SILVER COIN OF TARENTUM.

Magna
Graecia.
Tarentum

In Magna Graecia the splendid series of the money of Tarentum offers the curious type of a naked youth riding on a dolphin. This is Taras, the founder of the first Iapygian settlement on the Calabrian coast, who was said to have been miraculously saved from shipwreck by the intervention of his father Poseidon, who sent a dolphin, on whose back Taras was borne to the shore. At Tarentum divine honours were paid to him as oekist or founder, and hence his presence on the coins. The rider who appears on the reverse of the coins of Tarentum may be taken as an example of what is called an *agonistic* type, *i.e.*, a commemoration on the state-money of victories in the games held at Tarentum in the hippodrome. All Greek games partook of a religious nature, and were held in honour of one or other of the gods:

Agonistic
Types.

at Olympia, for example, in honour of Zeus, at Delphi of Apollo, and at Tarentum probably of Poseidon.

Another, and a very remarkable early example of one of the agonistic types is furnished by a coin of Metapontum, in Southern Italy: on the reverse is the figure of the river Acheloüs in human form, but with the horns and ears of a bull, just as he is described by Sophocles,¹ as ἀνδρείω κύτει βούπρωρος; and around him is the inscription in archaic characters ΑΧΕΛΟΙΟ ΑΘΛΟΝ, showing that games were celebrated at Metapontum in honour of Acheloüs, king of all Greek rivers, and as such revered from the time of Homer onwards. The coins with this type were doubtless struck on the occasion of the festival held in honour of Acheloüs, and may even have been distributed as prizes, ἄθλα, among the successful athletes.

At least one side of every Metapontine coin was always dedicated to Demeter, to whose especial favour was attributed the extraordinary fertility of the plain in which the city stood. The ear of corn was the recognised symbol of the worship of this goddess. On this ear of corn is often seen a locust, a bird, a field-mouse, or some other creature destructive to the crops, which was probably added to the main type as a sort of propitiation of the daemons of destruction, and the maleficent influences in nature.

The Acheloüs on this interesting coin of Metapontum may serve to introduce us to a whole

Sicily.
River-gods.

¹ *Trach.* 12.

series of river-gods as coin-types on the money of many of the towns of Sicily. River-worship would seem, indeed, judging from the coins, to have been especially prevalent in that island in the fifth century B.C., during which the Sicilian coasts were girdled by a chain of magnificent Greek cities, all, or nearly all, of which were shortly afterwards either destroyed by the Carthaginians, or delivered by the tyrants of Syracuse into the hands of a rapacious foreign soldiery.

In Sicily we see the river Gelas at first as a rushing man-headed bull, and later as a beardless youth with horns sprouting from his forehead.



SILVER COIN OF GELA.

The Crimissus on a coin of Segesta takes at first the form of a dog, and later that of a hunter accompanied by two dogs. The Hipparis at Camarina is seen as a young horned head emerging from the midst of a circle of waves. The Hypfas at Selinus is a naked youth offering a libation at the altar of the god of health, in gratitude for the draining of the marsh, which had impeded the course of his stream, and for the cleansing and purification of his waters. On the reverse of this coin we see Apollo and Artemis in a chariot, the former as ἀλεξίκεκος discharging his radiant arrows and

slaying the Pestilence as he slew the Python, while his sister Artemis stands beside him in her capacity of εἰλείθνια or σοωδίνα, for the plague had fallen heavily on the women too, ὥστε καὶ τὰς γυναῖκας δυστοκεῖν.¹



SILVER COIN OF SELINUS.

From the cultus of rivers we may pass to that of nymphs, of which we may again find examples among the beautiful coins of Sicily. One of the most charming of these representations is that of the nymph Camarina on a coin of that city, who is pictured riding on the back of a swan, half-flying, half-swimming across the waves of her own lake, as she holds with one hand the corner of her peplos or garment, which, filled by the breeze, serves the purpose of a sail. Water-nymphs.

More famous still is the fountain-nymph Arethusa, on a tetradrachm of Syracuse, a work which, in delicacy of treatment, and in the skilful adaptation of the subject to the space at the disposal of the artist, leaves nothing to be desired. On this coin the head of the nymph is seen facing the spectator—a true water-goddes—

With her rainbow locks
Streaming among the streams ;

¹ Diog. Laert., viii. 2, 70.

while dolphins are playing around her, darting and leaping about among the rich masses of her floating hair. The artist has here striven to convey the idea of the sweet waters of the fountain in the island of Ortygia rising out of the midst of the salt waves of the harbour of Syracuse, the salt sea being symbolized by the dolphins.

As in the case of the river-gods, the head of the nymph is on this coin accompanied by her name, ΑΡΕΘΟΣΑ.

Eagles devouring a Hare.

Another Sicilian coin stands out as a truly powerful work. It is a silver coin of Agrigentum, on which two eagles are seen on a rocky height, the one screaming with uplifted head, the other with raised wings and head stretched downwards. The two birds stand side by side on the dead body of a hare, which they are about to tear in pieces. As a coin-type, such a subject seems hard to explain: perhaps it refers to some local myth long lost; but it is scarcely possible to conceive that the artist



SILVER COIN OF AGRIGENTUM.

who engraved the die had not ringing in his ears the grand chorus in the *Agamemnon* where Aeschylus depicts the "winged hounds of Zeus"

in just such a scene as the engraver, with equally imperishable touches, has handed down to us across the ages:

On lofty station, manifest to fight,
 The bird kings to the navy kings appear,
 One black, and one with hinder plumage white,
 A hare with embryo young in evil hour
 Amerced of future courses they devour.
 Chant the dirge, uplift the wail,
 But may the right prevail.¹

From the coinage of free and autonomous towns, we will now pass to that of Philip of Macedon, the founder of that vast monarchy which was destined, in the hands of his son and successor Alexander the Great, to spread the arms, the arts, the literature, and the civilization of Greece as far as the shores of the Caspian and the banks of the Indus and the Nile. But absolute as was the power of Philip and Alexander, these monarchs were still essentially Greek, and as Greeks they were careful never to place upon their money any effigy less august than that of some one of the gods of Greece. Thus Philip, when he had united in his single hand the whole of northern Greece, and when he reorganized the currency of his empire, had recourse to the two great religious centres of Hellas, Delphi and Olympia, for the types of his gold and silver money. On the gold money appears the head of the Pythian Apollo, and on the silver that of the Olympian Zeus. The reverse types are in each case *agonistic*; that is to say, they com-

Coinage of
 Philip and
 Alexander
 the Great.

¹ *Agam.*, 115 (Swanwick).

memorate in a general way Philip's successes in the great Greek games, in which, we are told, it was his especial pride to be hailed as a victor. Pallas and her attendant, Victory, with Herakles and the Olympian Zeus, are the gods under whose auspices Alexander's gold and silver went forth from a hundred mints over the vast expanse of his heterogeneous empire. But, more than mortal as Alexander was conceived, and perhaps almost believed himself to be, never once during his lifetime was his own portrait seen upon his coins, though it had been the custom in the East, from the very foundation of the Persian monarchy which Alexander overthrew, for the great king to place his own effigy upon the royal *Daric* coins. What clearer proof can be required that none but religious subjects were at that time admissible on the coin?

Introduc-
tion of Por-
traiture.

But after the death of the great conqueror a change is noticeable, gradual at first, and then more marked, in the aspect of the international currency instituted by Alexander. The features of the god Herakles on the tetradrachms little by little lose their noble ideality, and assume an expression in which there is an evident striving on the part of the engraver towards an assimilation of the god to Alexander, now himself regarded as one of the immortals and the recipient of Divine honours.

Alexander's
Successors.

The first real and distinct innovation was, however, made by Alexander's general, Lyfimachus, when he became King of Thrace. The money of

this monarch bears most unmistakably a portrait of the great Alexander—of Alexander, however, as a god—in the character which in his lifetime his flatterers had encouraged him to assume, of the son of the Lybian Ammon with the ram's horn over the ear. This was the first step towards the new fashion of placing the head of the sovereign on the coin of the realm; but so antagonistic does this practice seem to have been to the religious susceptibilities even of this late time, that it was only by slow degrees that it came to be adopted. When the centre of gravity, so to speak, of the Greek world was no longer to be found in Hellas, but in the various capitals of those semi-oriental monarchies which arose out of the ruins of the Persian empire, Alexandria, Antioch, and the rest, all Greece received an indelible taint of oriental fervility. In comparison with these new self-constituted Βασιλεῖς and their descendants, Philip and Alexander stand forth as Hellenes of the old type. Only in such degenerate times did it become possible for a king to usurp on the coinage the place of honour reserved of old for gods and religious emblems; nay, even to give themselves out as very gods, and to adopt such titles as Θεός ἐπιφανής or Νέος Διόνυσος.

The first of Alexander's successors who substituted his own portrait on coins for that of the deified Alexander was Ptolemy Soter, the founder of the dynasty which ruled Egypt for two centuries and a half. Both he and his queen, Berenice,

were deified after their deaths, and appear with the title $\Theta\epsilon\omicron\iota$ on the money of their son, Ptolemy Philadelphus; and the portrait of Ptolemy Soter was perpetuated from generation to generation on the coins of successive rulers of Egypt down to the time of the Roman conquest, although not to the exclusion of other royal portraits.

Greek coins, from the age of Alexander onwards, possess an interest altogether different from that with which the money of the earlier ages inspires us. The interest of the præ-Alexandrine coins is twofold. In the first place, they illustrate local myths, and indirectly shed much light on the political revolutions of every corner of the Greek world; and in the second place, they are most valuable for the history of art in its various stages of development. The interest of the post-Alexandrine coins is that of a gallery of authentic portraits. "Here," says Addison,¹ "you see the Alexanders, Cæsars, Pompeys, Trajans, and the whole catalogue of heroes who have, many of them, so distinguished themselves from the rest of mankind, that we almost look upon them as another species. It is an agreeable amusement to compare in our own thoughts the face of a great man with the character that authors have given us of him, and to try if we can find out in his looks and features either the haughty, cruel, or merciful temper that discovers itself in the history of his actions."

Portraits —
Alexander.

Among the finest portraits on Greek coins we

¹ *Dialogues upon the Usefulness of Ancient Medals.*

have space only to mention a few. First comes that of the great Alexander himself, on the coins of Lyfimachus, idealized no doubt, but still the man in the likeness of a god. In many of these coins we may note the peculiarities recorded as characteristic of his statues by Lyfippus, the slight twist in the neck and the ardent look in the eyes.

Then there is Demetrius Poliorcetes, the de-
stroyer of cities, that soldier of fortune, terrible in war, and luxurious in peace, whose beauty was such that Plutarch says no painter could hit off a likeness. That historian compares him to Dionysos, and as Dionysos he appears on the coins, with the bull's horn of the god pointing up from out the heavy locks of hair which fall about his forehead.

Another highly characteristic head is that of the eunuch Philetaerus, the founder of the dynasty of the Attalid Kings of Pergamus. Here, at last, is realism pure and simple. The huge fat face and vast expanse of cheek and lower jaw carry conviction to our minds that this is indeed a living portrait.

To those who are familiar only with Greek art in its ideal stage, such faces as this of Philetaerus, with many others that might be cited (Prusias, King of Bithynia, for example), from among the various Greek regal coins, will be at first somewhat startling. We have become so thoroughly imbued with the ideal conceptions of godlike humanity perpetuated in Greek sculpture and its derivatives, that when we first take up one of these portrait-

coins of the third or second century B.C., we find it hard to persuade ourselves that it is so far removed from our own times. This or that uninspired and commonplace face might well be that of a prosperous modern Englishman, were it not for the royal diadem and Greek inscription which designate it as a King of Pontus or Bithynia, of Syria or of Egypt.

Nevertheless, although an almost brutal realism is the rule in the period now under consideration, there are instances where the artist seems to have been inspired by his subject and carried away out of the real into the ideal. Thus the majority of the coins of the great Mithradates are probably unidealized portraits, somewhat carelessly executed, of a man scarcely remarkable unless for a certain evil expression of tigerish cruelty. But there are others of this same monarch on which, it is true, the likeness is unmistakably preserved, but under what an altered aspect! Mithradates is here the hero, almost the god, and as we gaze at his head on these coins, with flying locks blown back as if by a strong wind, we can picture him standing in his victorious chariot holding well in hand his sixteen splendid steeds, and carrying off the prize; or as a runner, outstripping the swiftest deer, or performing some other of those wondrous feats of strength and agility of which we read. This type of the idealized Mithradatic head also occurs on coins of Ariarathes, a youthful son of Mithradates, who was placed by his father on the throne of Cappadocia. The head, like that of Alexander,

was afterwards perpetuated on the money of various cities on the shores of the Euxine.



SILVER COIN WITH HEAD OF MITHRADATES.

We have space only to mention one other Cleopatra. portrait, that of the famous Cleopatra on a coin of Ascalon. This is certainly no ordinary face, and yet we look in vain for those charms which fascinated Caesar and ruined Antony. The eyes are wide open and eager, the nose prominent and slightly hooked, the mouth large and expressive, the hair modestly dressed and bound with the royal diadem. The evidence afforded by the coins, taken in conjunction with a passage of Plutarch, who says that in beauty she was by no means superior to Octavia, leads us to the conclusion that Cleopatra's irresistible charm lay rather in her mental qualities and alluring manner, than in any mere outward beauty.

Quite apart from the intrinsic importance, mythological or historical, of the subjects represented on Greek coins, lies their value as illustrations of the archaeology of art. Of all the remains of antiquity, statues, bronzes, terracottas, fictile vases, engraved gems, and coins, these last alone

Styles of
Art and
Chrono-
logical
Sequence.

can, as a rule, be exactly dated. The political conditions and vicissitudes of the autonomous coin-striking states render it comparatively easy for us to spread out before our eyes the successive issues of each in chronological sequence. In the series of each town we may thus at once obtain a few definite landmarks, around which, by analogy of style, we shall have no great difficulty in grouping the remaining coins. The characteristics of Greek art, in the various phases which it passed through, we do not propose, nor indeed is this the place, to discuss. It will be sufficient to indicate the main chronological divisions or periods in which the coinage of the ancient world may be conveniently classified. These are as follows :

- I. Circa B.C. 700-480. *The Period of Archaic Art*, which extends from the invention of the art of coining down to the time of the Persian Wars.
- II. „ „ 480-415. *The Period of Transitional Art*, from the Persian Wars to the siege of Syracuse by the Athenians.
- III. „ „ 415-336. *The Period of Finest Art*, from the Athenian expedition against Sicily, to the accession of Alexander the Great.

- IV. Circa B.C. 336-280. The *Period of Later Fine Art*, from the accession of Alexander to the death of Lyfimachus.
- V. „ „ 280-146. The *Period of the Decline of Art*, from the death of Lyfimachus to the Roman conquest of Greece.
- VI. „ „ 146-27. The *Period of continued Decline in Art*, from the Roman conquest to the rise of the Roman Empire.
- VII. B.C. 27—A.D. 268. The *Period of Graeco-Roman Art*, from the reign of Augustus to that of Gallienus.

It is almost always quite easy to determine to which of the above periods any given coin belongs; and as a rule it is possible to fix its date within the period with more or less precision, by comparing it in point of style with others of which the exact date is known. Even a small collection of well-chosen specimens thus mapped out in periods forms an epitome of the history of art such as no other class of ancient monuments can furnish. It is true that not all coin art is of the highest order for the age to which it belongs. Often, indeed, it is extremely faulty; but, good or bad, it is always instructive, because it is the

veritable handiwork of an artist working independently, and not of a mere copyist of older works. The artist may have been unknown, perhaps, even in his own day, beyond the narrow circle of his fellow-citizens; but he was none the less an artist who expressed to the best of his ability the ideas of his age and country, and he has handed down to all time, on the little disk of metal at his disposal, a specimen, on a small scale, of the art of the time in which he was at work.

Die En-
gravers.

There is good reason, moreover, to think that the persons employed to engrave the coin-dies were by no means always artists of inferior merit. During the period of the highest development of Greek art it is not unusual, especially in Magna Graecia and Sicily, to find the artist's name written at full length in minute characters on coins of particularly fine work; and it is in the last degree improbable that such a privilege would have been accorded to a mere mechanic or workman in the mint, however skilful he may have been. That artists known to fame were (at least in the fourth century) entrusted with the engraving of the coins, is indeed proved by the fact that we find several cities entirely independent of one another having recourse to the same engraver for their money. For instance, Evaenetus, the engraver of the finest of those splendid medallions of Syracuse, bearing on one side the head of Persephone crowned with corn-leaves, and on the other a victorious chariot, places his name also on coins of two other Sicilian cities, Camarina and Catana; and what is still

more remarkable, the Syracusan artist, ΕΥΘ . . . , appears also to have been employed by the mint of Elis in Peloponnesus.



SYRACUSAN MEDALLION.

In Magna Greecia also we note that an artist, by name Aristoxenus, signs coins both of Metapontum and Heracleia in Lucania; and another, who modestly signs himself Φ, works at the same time for the mints of Heracleia, Thurium, Pandosia, and Terina.

In Greece proper, artists' signatures are of very rare occurrence; but of the town of Cydonia, in Crete, there is a coin with the legend in full ΝΕΥΑΝΤΟΣ ΕΠΟΕΙ; and of Clazomenae, in Ionia, there is a well-known tetradrachm, with a magnificent head of Apollo facing, and the inscription ΘΕΟΔΩΤΟΣ ΕΠΟΕΙ.

Enough has been said to show that in the period of finest art there were die-engravers whose reputation was not confined to a single town, artists of the higher order, whose signatures on the coin were a credit to the cities for which they worked. Unfortunately, not a single ancient writer has thought of recording the name of any one of

these great masters of the art of engraving. How, indeed, could they know that thousands of these, in their time insignificant, coins would outlast the grandest works of architecture, sculpture, and painting, and would go down from age to age, uninjured by the lapse of time, sole witnesses to the beauty of a long-forgotten popular belief, or to the glory of some splendid city whose very site is now a desert or a swamp? Yet we must not regret that the old Greek engravers worked without any idea of handing down either their own, or their city's, or their ruler's glory to posterity. Had they thought of these things, the coins would have furnished far less trustworthy evidence than they now do, and we should probably have had many ancient examples of medals like that famous piece of modern times which Napoleon I. ordered to be struck with the inscription, *Frappée à Londres*.

Magi-
strates'
Names.

Not to be confounded with artists' signatures on coins are the names of the magistrates under whose authority the money was issued. All such names are usually written in large conspicuous characters intended to catch the eye, while the names of artists are often purposely concealed; and are indeed sometimes so small as to be hardly visible without a magnifying-glass. About the end of the fifth century B.C., at some towns, though not generally before the middle of the fourth, magistrates begin to place their signatures on the money. Sometimes we read their names at full length, sometimes in an abbreviated form or in monogram; while not unfrequently a symbol or signet stands

in place of the name. It is a matter of no small difficulty to distinguish such magistrates' signets in the field of a coin from religious symbols which are to be interpreted as referring more or less directly to the principal type. Thus, for instance, an ear of corn might refer to the worship of Demeter, or it might stand in the place of the name of a magistrate Demetrius. As a rule, all such small accessory symbols before the end of the fifth century have a religious motive; and the same symbol will be found very constantly accompanying the main type. But in later times, while the type remains constant, the symbol will be frequently varied. It must then be understood as the private seal of the magistrate entrusted with the supervision of the coinage. Unfortunately we know very little of the organization of the mints in the various cities of the ancient world. It has been proved that at some cities the chief magistrate placed his name on the money issued during his tenure of office; thus, in Boeotia, the name of the illustrious Epaminondas occurs; and at Ephesus we find the names of several of the chief magistrates, who are mentioned as such by ancient writers or in inscriptions. This was not, however, the universal rule: at Athens, for instance, the names of the Archons are not found on the coins; and at some cities the high priest, and occasionally even a priestess, signs the municipal coinage.

Under the Roman Empire, from Augustus to Greek Imperial Coin-
Gallienus, the Greek cities of Asia, and a few in age.

Europe, were allowed to strike bronze money for local use. These late issues are very unattractive as works of art, and their study has been consequently much neglected. In some respects, however, they are even more instructive than the coins of an earlier age, which they often explain and illustrate. It is to these Greek Imperial coins, as they are called, that we must have recourse if we would know what local cults prevailed in the outlying provinces of the Roman Empire, and especially in what strange and uncouth guises the half-Greek peoples of Asia clothed their gods.

Only in this latest period do we find on the coinage actual copies of ancient sacred images of Asiatic divinities, such as that of the Ephesian Artemis, with stiff mummy-like body, half human, half bestial, with her many breasts. It is not to be questioned that many such monstrous statues existed in various parts of Greece, sacred relics of a barbarous age, and that on great festivals they were draped in gorgeous attire, and exhibited to public view; but Greek art, as long as it was a living art, shrank from the representation of such images, and always substituted for them the beautiful Greek ideal form of the divinity with which it was customary to identify them.

These Greek Imperial coins are also valuable as furnishing us with copies of famous statues of the great period of art, such as that of the chryselephantine Zeus of Pheidias at Olympia, the Aphrodite of Praxiteles at Cnidus, and many others; and they are particularly interesting for

the light which they shed upon the sacred games, Pythia, Didymeia, Actia, Cabeiria, and other local festivals and religious ceremonies, of which, but for our coins, little or nothing would have been known.





CHAPTER III.

ROMAN COINS.

THE coinage of Rome falls naturally into two great classes: (1) the Family or, as it is often miscalled, the Consular series, struck under the Republic; and (2) the Imperial series, of the period of the Roman and Byzantine Emperors, from Augustus to the capture of Constantinople by the Turks in A.D. 1453.

Introduc-
tion of
Coinage.

The date of the first issue of a coinage at Rome is uncertain. The presence of roughly cast lumps of metal in treasure offered to divinities of fountains, mixed with large quantities of coins, seems to indicate that the first attempt at a metal currency at Rome consisted of rude lumps or ingots of copper of uncertain weight and size, called *aes rude*. These pieces are without any mark of authority, and could only have circulated by weight. The introduction of a coinage at Rome has by ancient authority been attributed to Servius Tullius, and he is said to have been "the first to mark copper pieces with the repre-

Aes rude.

sentations of an ox or some other animal or symbol." No coins of this remote period have, however, been preserved, and the tradition is doubtless without foundation. Considerably later than the time of the Kings are those quadrilateral or brick-shaped pieces of copper, having on one or both sides a symbol, from which they have been called *aes signatum*. These pieces must have been issued in considerable quantities, as they are not uncommon at the present time. They are of uncertain sizes and thickness, and were originally cast in large blocks, and afterwards divided into smaller portions. Like the *aes rude*, these pieces must have circulated by weight. They appear to have been in use up to a late period, even after the coinage had passed into another stage. To these rough pieces there succeeded a much more regular coinage, circular in shape, called *aes grave*. It consisted of a large copper coin, the *as*, the unit of the monetary system, and, being of a pound weight, called the *as libralis*, and of a number of fractional parts, called the *semis* (half), the *triens* (third), the *quadrans* (fourth), the *sextans* (sixth), and the *uncia* (twelfth). Multiples of the *as* were the *dupondius* (double *as*), the *quincussis* (five-*as* piece), and the *decussis* (ten-*as* piece); but these do not appear to have been issued at Rome, but only by the neighbouring cities, which adopted this heavy copper coinage. All the pieces of this new coinage are cast (not struck), in high relief, and without any kind of legend or inscription excepting the marks of value: for the *as* 1, for

Aes Signatum.

Aes Grave

the semis S, and for the other divisions four, three, two, or one dot or knob. The type of the reverse, a prow, was the same throughout, but that of the obverse varied with each denomination. On the as was the double-headed Janus, to whom the first coinage was mythically attributed; on the semis the head of Jupiter, the protector of the Capitol; on the triens the head of Pallas, the protectress of Aeneas, or Minerva, the inventress of numbers; on the quadrans the head of Hercules, the tutelary genius of the farmyard, and thus in general the god of property and riches; on the sextans the head of Mercury, the god of traffic and commerce; and on the uncia the head of Roma, herself the tutelary goddess of the city. The weight of the as was nominally that of the Roman pound of 12 oz., but very few specimens extant come up to the full weight; they range generally from 11 to 9 oz. This may be the result of a first reduction of a pound of copper from the condition of *aes rude*, or large quadrilateral pieces of metal, *aes signatum*, circulating by weight, to the form of a real and systematic currency.

The origin of this libral system is assigned by Mommsen to the decemvirs, and more particularly to the influence of the *Lex Julia Papiria* (B.C. 430), which ordered that fines should not be paid in cattle but in money. But in style and fabric the libral coinage cannot be of so early a date. Anyone accustomed to the study of numismatics can see at a glance that these coins bear no trace of

archaism, and cannot be imitations of types that originated in the fifth century. They belong rather to a time that corresponds with the fine period of Greek coinage. The Romans borrowed all their ideas of painting and sculpture from the Greeks, and no doubt resorted to the same source for the types of their coinage. It must therefore be supposed that the fines ordered by the Lex Julia Papiria were paid in metal by weight, and that the as libralis was an eventual but not an immediate effect of this law.

Beside this rather complicated series of copper coins, no attempt appears to have been made by the State to introduce either of the finer metals, gold, or silver. In fixing the as to the weight of a pound, the State had, however, made it possible to accept in circulation the gold and silver coinages of neighbouring cities. At that period the pound of copper was worth a scruple of silver, a relative value which had for some time existed in Sicily, whose inhabitants for convenience of trade were desirous that their silver money and the rude copper coins of Latium should have a joint circulation. The coins that chiefly supplied this want were the gold and silver money of Campania, with the name ROMANO or ROMA. The gold coin had for the type of the obverse the head of Janus, and on the reverse two warriors taking an oath over a youth sacrificing a pig.¹ The silver coins vary in type, but the most common have on the obverse the head of Janus,

Early Gold
and Silver
Coins in
Circulation
at Rome.

Campanian
Coins.

¹ Caesa iungebant foedera porca.—*Aen.*, viii. 641.

and on the reverse Jupiter in a biga, or two-horse chariot, accompanied by the divinity Victory. Both gold and silver coins of these types are inscribed ROMA. The relative value of the coins in gold, silver, and copper is a very difficult question. At this period the usual proportion between gold and silver was 1 to 12, and between silver and copper 1 to 250; but, in order to increase the value of their copper coins, the Romans appear to have estimated them above their usual worth, thus making the silver and copper at a ratio of 1 to 183, and reducing in an equal degree the ratio of the gold.

Reduction
of the As
Libralis.

Although this large copper coinage must have proved most inconvenient for commercial transactions, a considerable period elapsed before there was any decided change in the Roman monetary system. The authorities of the Imperial age state with a very considerable uniformity of opinion that the change took place during the period of the first Punic war (B.C. 264-241), and that the as libralis fell suddenly to 2 oz., the weight of an as sextantal. According to Mommsen, however, whose opinion is borne out by the coins themselves, the fall was not so rapid; and what took place appears to have been as follows. From a weight of 10 oz. (nominally 12), the as fell to 8 oz., and at length was reduced to 4, or to that of a triens, and thus became *triental*. This probably occurred about B.C. 269, when the silver coinage of Rome begins. The evidence afforded by the coinages of neighbouring cities subject to

Triental
As.

Rome bear out this statement. In B.C. 291 Venusia was founded, and struck coins of the libral standard; and in B.C. 289 Hatria followed her example; but in B.C. 251, when Lipara became a Roman colony, we find that city issuing a triental coinage. It is therefore between these dates that the reduction of the as must be placed, and in fixing it to B.C. 269 we make it simultaneous with the introduction of the new silver



SEXTANTAL AS.

coinage. The dupondius (2 asses), tressis (3), and decussis (10), were now issued at Rome, and also the semuncia ($\frac{1}{2}$ oz.) and quadruncia ($\frac{1}{4}$ oz.). These two last coins, together with the sextans and uncia, were now no longer cast but struck, and bore on the reverse the inscription ROMA; the other coins were all cast as before. The triental as did not long preserve its full weight, but about B.C. 250 fell to 2 oz., and was called the *as sex-* ^{Sextantal} _{As.} *tantalus*. When the coinage became *sextantal*, casting was abandoned, and all coins were struck, and bore the name of the city. Also the multiples

of the as were discontinued, as well as the femuncia and quadruncia.

First
Roman
Silver
Coinage.

In B.C. 269 the first silver coinage was issued at Rome, and consisted of the *denarius*, its half the *quinarius*, and its quarter the *sestertius*. The legal weight of the early denarius was 4 scruples (72 grains), which gave a convenient number of scruples for each Roman coin. Thus the *quinarius* = 2 scruples, and the *sestertius* = 1 scruple, and the Roman pound of silver produced 72 denarii, 144 *quinarii*, or 288 *sestertii*. The reason for adopting this new standard for the silver coins is obvious, when we consider what had happened with the copper coinage. This, as has been shown, was reduced to one-third its original value, and the new *sestertius* was therefore an equivalent to the *as libralis*, of which many specimens must have still remained in circulation. In all indications of sums fixed at the period of the introduction of the new coinage, the Latin writers use as synonymous terms the words *sestertius* and *aes grave*. The relative value of silver and copper was by this arrangement maintained, although it did not long keep so, as the weight of the copper coins soon fell, and they became mere pieces of account or tokens, like the bronze coinage of the present day. In B.C. 217 the standard of the silver was reduced, and the *as* became *uncial*. The denarius was struck at 80 to the pound, and the *quinarius* at 160. The issue of the *sestertius* ceased, and was not again struck in silver, excepting at occasional intervals during the first century B.C. The

quinarius, after a very short time, fell into disuse, and was only occasionally reissued. The denarius remained at this new standard for nearly three centuries, and maintained its purity throughout.

Another silver coin was also in circulation: this Victoriatas. was the *victoriatas*, so-called from its type, which showed on the obverse the head of Jupiter, and on the reverse Victory crowning a trophy. This coin was first issued in B.C. 228; it was in weight 3 scruples, or three-fourths of the denarius, and was originally a Campanian coin; but after the fall of Capua, B.C. 211, the coinage of the Victoriatas was transferred to Rome, itself, where it continued to be coined for the use of the Provinces. It was also current at Rome, perhaps, however, to no great extent. When the weight of the denarius fell in B.C. 217, that of the victoriatas was reduced in like proportion, but after a few years its issue ceased. The type was afterwards adopted for the quinarius.

When the as fell from sextantal to uncial, its Uncial As. value was also changed from one-tenth to one-sixteenth of the denarius. As the soldiers were paid after the old standard of ten asses to the denarius, that coin retained its mark of value X. By this reduction the relation of silver to copper fell to 1 to 112, less than half the original ratio. Thus the copper coinage became still more a money of account; and when in B.C. 89 it was again reduced to a *semuncial* standard no ill-effects were produced. In B.C. 80 the copper coinage

ceased; and, excepting a few pieces struck in the eastern and western provinces, it was not revived during the period of the Republic. In B.C. 16 Augustus introduced a new copper coinage consisting of a sestertius of four asses, a dupondius of two asses, an as, a femis, a triens, and a quadrans.

Gold Coins,
after B.C.
269.

The only other pieces which remain to be mentioned are the gold. The early coins of 3, 2, and 1 scruple, marked LX., XXXX., and XX., with the helmeted head of Mars on one side and an eagle standing on a thunderbolt on the other, are usually considered a Campanian issue. These were first struck soon after B.C. 269; but from their extreme scarcity their issue could only have extended over a very short period. The first purely Roman gold money was struck by Sulla in B.C. 84-82. They bear his own name and that of his proquaestor, L. Manlius, and from their fabric appear to have been issued in Greece, probably as rewards to his veterans. The gold coins struck by Julius Caesar in B.C. 49 are of the same character as those of Sulla; and it is not till after Cæsar's death that a gold coinage is firmly established, which consisted of an *aureus* and a *half-aureus*, the former struck at forty to the pound, and representing in value twenty-five denarii.

T₃ pes.

The original type of the denarius is, on the obverse, the head of Roma wearing a helmet adorned with wings, and a griffin's head for the crest; behind is the mark of value X; and on the reverse, the Dioscuri on horseback, charging, their spears couched, their mantles floating behind.

and their conical hats furmounted each by a star, emblematic of the morning and evening; below, is the inscription ROMA.



DENARIUS OF THE FIRST ISSUE.

This is no doubt a representation of these demi-gods as they were seen, according to the legend, fighting for the Romans at the battle of Lake Regillus. Any change of type was at first very gradual. After a time the mark of value is removed from behind the head of Roma and placed under her chin, and the inscription is transferred from the reverse to the obverse. About B.C. 125 the mark of value changes to ✕., and in one instance to XVI., the latter to represent sixteen asses, the true value of the denarius at that time. About B.C. 90 the mark of value is no longer stamped on the silver coins. The first instance of a change in the head on the obverse can be fixed with certainty to B.C. 100. In that year the Quæstors Piso and Caepio, having been ordered by the Senate to purchase corn and to sell it to the people below the market value, received a special privilege to issue coins to cover this extraordinary expenditure. To distinguish their coins from those struck by the officers of the mint, they varied the type by placing on the obverse the

head of Saturn, probably in allusion to L. Appuleius Saturninus, who had proposed the Lex Frumentaria. Seven years later, in B.C. 93, the monetarii issued two sets of coins having the same reverses; but on the obverse of one set was the head of Roma, and on the other that of Apollo. After this time the head on the obverse changed year by year, being either that of a divinity, sometimes but rarely of Roma, or of a traditional or historical personage. These types were generally in some way connected with the family of the monetarius. In B.C. 44, by order of the Senate, the head of Julius Caesar was placed upon the coins; and after a few years the usual type is that of some living personage, generally of him who issued the coins.

The first change in the type of the reverse occurred about B.C. 217, when Diana in a two-horsed chariot is substituted for the Dioscuri. But this was an exception, and it is not till after a further interval of more than fifty years that we again meet with any variation. From about B.C. 160 the coins show a delight in recording the great deeds of Rome's heroes in the past, in representing the mythological and historical traditions of the nation, and in illustrating public events after the manner of medals. One of the earliest historical types is to be found on the coins, already referred to, of the Quæstors Piso and Caepio, who are represented distributing largesse to the public. A still more remarkable coin is that struck by Brutus after the murder of Julius Caesar, having on one side his own head, and on

Historical
and tra-
ditional
types.

the other a cap of Liberty between two daggers, and the inscription EID. MAR.



DENARIUS OF BRUTUS.

Brutus had already, when a monetary triumvir, recorded the famous deed of his ancestor L. Junius Brutus, the banisher of the Tarquins, by placing his head upon the coins. To the same class belong the coins of Sextus Pompeius, who for a time defied the efforts of Octavius to suppress his piratical excursions. These have on one side the pharos of Messana surmounted by a figure of Neptune, and on the other the monster Scylla, half-dog, half-fish, sweeping the sea with her rudder. They refer either to the defeat of Octavius at Messana in B.C. 38, or to the destruction of his fleet off the Lucanian promontory in the following year, on which occasion Pompeius offered sacrifices to Neptune for his timely assistance, and even styled himself the son of Neptune. Of the traditional types, perhaps one of the most interesting is that on a coin of the Postumia gens, with the bust of Diana on the obverse, and on the reverse a rock on which is a togated male figure before a lighted altar extending his hand towards a bull. It illustrates the worship of that goddess at Rome, to whom, for the use of the inhabitants of Latium, then under Roman rule, Servius Tullius

founded a temple on the Aventine. At their annual festival the augurs foretold the domination of Rome over all the Latin race, which was accomplished by Aulus Postumius at the battle of Lake Regillus B.C. 496. In consequence of this victory, the Postumia gens claimed for itself the fulfilment of the prophecy. On a coin of the Marcia gens are the heads of Numa Pompilius and Ancus Marcius, and a naked warrior (*defultor*) riding two horses; these allude to the traditional descent of the Marcia gens from Mamercus, son of Numa, and the celebration of the games in honour of Apollo, which were instituted by the soothsayer Marcius. We have also such legendary subjects as Tarpeia crushed beneath the bucklers, Aeneas carrying Anchises on his back and holding the Palladium, Ulysses returning from Troy and recognised by his dog, and the rape of the Sabines. Still more numerous are the simple representations of the divinities of the Roman Pantheon.

The gold coins of Sulla and subsequent issues have types similar to those of the denarius. The copper coins of the reduced standard preserved their original types.

Moneyers'
Marks and
Names.

An important feature in the gradual development of the types is the moneyers' marks and names, which serve to indicate the successive issues from the mint. At first this mint officer only placed a symbol, a fly, cap, spear, or prow, to distinguish his issue from those of previous years. Later on he added his initial, then his name, first in monogram

and finally in full, the prenomens on the reverse, and the cognomen on the obverse. These inscriptions are always in the nominative case. They cease about B.C. 36, when, after the defeat of Sextus Pompeius, and the submission of the triumvir Lepidus, amongst the many honours which Octavius received from the Senate, not the least was the commemoration of his victories in the types on the coins. To these was added his portrait, and from B.C. 29, when he was created Emperor, the coinage becomes imperial.

The right of issuing the coinage at Rome, as elsewhere in all Republics, belonged to the State, which fixed by decrees the standard and the various denominations. At an early period the duty of carrying into execution these regulations was delegated to three officers, who were called the *tresviri auro, argento, aere, flando, feriundo*. The word *flando* may show that these officers were nominated before the reduction of the as to the sextantal standard. The office certainly existed before the adoption of the uncial as in B.C. 217, as we begin to meet with the initials and monograms of the moneyers before that change took place. It was an occasional office at first, and appears only to have been filled up when fresh issues were needed for the use of the State. About B.C. 104, the more frequent occurrence of the moneyers' names shows that these officers were then appointed at closer intervals. Julius Caesar increased the number of this magistracy to four, and these continued to be nominated annually till the dis-

Constitu-
tion of the
Mint, Offi-
cers, etc.

fensions caused by the second triumvirate. In B.C. 39 the office was quite suspended, and does not appear to have been reinstated till B.C. 16, when Augustus, before his departure for Gaul, re-appointed the quatuorviri. The office was abolished about the year B.C. 3, and the Roman coinage then entered on a new phase. According to law, each officer of the mint was independent of the other, and could issue his coins separately or in conjunction with his colleagues. These monetarii were not the only magistrates who could strike money. The urban quaestors, ediles, and praetors were sometimes charged with extraordinary commissions; but these cases were exceptional, and generally in virtue of some unusual expenditure. Such pieces were marked with a special formula, as Ex. S. C. (*Ex Senatus Consulto*), or S. C. (*Senatus Consulto*), formulas never used by the regularly appointed monetarii. The curule ediles were also occasionally allowed to strike coins to cover the expenses of the great public games.

Local
Mints
and Issues.

Besides the coins issued in Rome, there were others struck outside the city. These may be divided into two classes: the coinage of the neighbouring cities, and the *monetae castrenses* or *nummi castrenses*. It is evident from monograms and letters on certain pieces of rude fabric that a few cities, after they came under Roman jurisdiction, were allowed to retain the right of coinage. Amongst these places were Luceria, Canusium, Crotona, and Hatria. These coins were of the

same standard as those struck at Rome. This privilege appears to have ceased during the second Punic War, or shortly afterwards. The *monetae castrenses* or *nummi castrenses* are coins issued by the general for payment of his soldiers, whether as dictator, consul, proconsul, or imperator. This right could be delegated by the commander to his quaestor or proquaestor, who usually added his own name, and in some instances placed it alone, without that of his superior officer. These coins circulated throughout the Republic with the State coinage, although the authority of the Senate was not usually inscribed on them. Finds in Spain, Cisalpine Gaul, and elsewhere, show that the *nummi castrenses* were struck as early as the middle of the second century B.C.; but their issue was suspended for a time after the outbreak of the Social War. They are again found in large quantities from the time of the Civil War between Pompey and Caesar till the death of Mark Antony. They may be classed under the following districts: Sicily, Spain, Africa, Gaul, the East, which includes Greece and Asia Minor, and Cyrenaica.

To the coins issued *extra muros* belong those struck by the revolted Italian States during the Social or Marston War. These are of the *denarii* class, and many bear the same types as the State coinage of the time, but they are of rude fabric. The greater portion have the inscriptions in the Oscan character, and bear the names of the leaders, Papius Mutilus, Pompaedius, Minius Jegerius, and Numerius Cluen-

Oscan
Coins.

tius. Others, simply inscribed ITALIA, are easily recognizable as belonging to this class.

Classifica-
tion.

The coins of the Roman Republic may be classified in two ways, (1) by families, under the name of the gens to which the monetarius belonged, or (2) chronologically. In large collections for facility of reference, the arrangement under families is perhaps the more practicable, but by this system the historical interest of the coinage is almost entirely lost. There are a large number of pieces which have no moneyer's name, others with only a symbol, a letter, or a monogram. In the arrangement by families, many of these coins would find no distinct place. By a chronological arrangement, each coin has its place, and we are able not only to trace the sequence of the coinage, and see how the types gradually developed, but also to follow the extension of Roman domination, as it spread throughout Italy to the West, to the East, and onwards into Asia, and across the Mediterranean into Africa. The large series of coins of Julius Caesar, Pompey, Brutus, Cassius, and the triumvirate, would teach us very little if arranged under the Julia, Pompeia, Junia, Cassia, Antonia, and Aemilia gentes. For assistance in a chronological arrangement, we have the evidence afforded by the growth of the types, by history, and by the various finds. To this study Mommsen has given much attention, and the results of his labours are embodied in his learned work on the Roman coinage.¹ But more can be accomplished than

¹ *Geschichte des Römischen Münzwesens.*

even Mommsen has done as regards a local classification, and this was done by the late Count de Salis, who arranged the Roman coins in the British Museum, both republican and imperial, in chronological and geographical order.

When Augustus in B.C. 3 abolished the office of the monetarii, he reserved to himself all rights connected with the gold and silver coinages, and these remained with all succeeding emperors. To the Senate, however, belonged the power of striking the copper money, and its authority was denoted by the letters S. C. (*Senatus Consulto*), which also served to distinguish the copper coins of Rome from those issued in the provinces.

The coinage in circulation in Rome from that time was—in gold, the aureus, of forty to the pound, and the half-aureus; in silver, the denarius, of eighty-four to the pound, and its half, the quinarius; and in copper, the sestertius, of four asses, its half the dupondius, the as, the semis or half-as, the triens or one-third-as, and the quadrans or quarter-as. The aureus was worth twenty-five denarii, and the denarius sixteen asses. The as was nearly equal in weight and size to the dupondius, but it was distinguished by being of red copper; whilst the sestertius and the dupondius were of yellow brass or *orichalcum*, being a composition of copper and zinc. The earliest deteriorations in the Imperial coinage took place in the reigns of Nero and Caracalla; and in A.D. 215 the aureus was only the fiftieth of a pound, and the denarius became so debased that it contained

Argentus. only 40 per cent. of pure silver. When Caracalla had thus corrupted the coinage, he introduced a new silver piece, called the *argenteus Antoninianus*, of sixty to sixty-four to the pound, which was worth a denarius and a half, and which soon became the principal coin of the Empire. This piece may be easily distinguished from the denarius by its having the head of the emperor radiate and the bust of the empress upon a crescent or half-moon.

From the reign of Caracalla to that of Diocletian the greatest disorder prevailed in the coinage, and the period of the so-called Thirty Tyrants was one of complete bankruptcy to the State. Each Emperor debased the coinage more and more, so that the intrinsic value of the silver currency was not one-twentieth part of its nominal value. The *argenteus* supplanted the denarius, and after a short time, from a silver coin became only a copper one washed with a little tin; and, having driven the copper money out of currency, became itself the only piece in circulation with the exception of the gold. Diocletian, in A.D. 296, put an end to this confusion by withdrawing from circulation all the coinage, and issuing another entirely fresh one, based on the standard of the currency of the first century A.D. The aureus was struck at sixty to the pound, and a new coin in silver, called the *centenionalis*, took the place of the denarius; whilst in copper two new pieces were issued, called the *follis* and the denarius. Special interest is attached to this new coinage, as it affords the

means of explaining the prices marked in the great tariff of the Roman Empire which was published in A.D. 301, and which fixed the "maximum" price of almost every article of food or produce that found its way into the market. It was the abrogation of this tariff which occasioned a slight modification in the monetary system during the reign of Constantine, who reduced the weight of the aureus to seventy-two to the pound, and gave to this new coin the name of *solidus* in Latin and *nomisma* in Greek. This piece remained in circulation so long as the Empire lasted, maintaining its full weight; and when current at a later period in Western Europe, it received the name of bezant or byzant. Constantine added two fresh silver coins to the currency, the *miliarensis*, and its half, the *siliqua*, twelve of the former being equal in value to the solidus. Except some slight modifications in the copper money made by Anastasius and by Basil I., no further important changes remain to be mentioned.

The obverse of the Imperial coinage had for its type the head or bust of the Emperor, the Empress, or the Caesar, and occasionally that of a near relative, such as the Emperor's mother or sister. The type varied with the period. In Pagan times the head or bust was laureate, *i.e.* bound with a wreath, or radiate, *i.e.* wearing a radiated crown, sometimes bare, but rarely helmeted; in the Christian and Byzantine period it is usually adorned with a diadem or a crested helmet. The portraits, too, may be divided into two classes,

The
Solidus.

Imperial
Types.

realistic and conventional. The early Caesars, and their successors to Gallienus, fall under the first class, and the remaining Emperors, including the Christian and Byzantine, under the second. The types of the reverse are commonly mythological (divinities), allegorical (personifications), historical (events connected with the history and traditions of Rome), and architectural (the principal public



SESTERTIUS OF VESPASIAN.

buildings, especially those at Rome). On the coins of Vespasian and Titus is recorded the conquest of Judaea, figured as a woman seated weeping beneath a palm-tree, near which stands her conqueror, or else the ferocious Simon, who headed the revolt and only survived to adorn the triumph of his enemies. On the large brass of Titus is to be seen a representation of the Flavian Amphitheatre, begun by his father and completed by himself, standing between the Meta Sudans and the Domus Aurea, with its many storeys or arcades, and its vast interior filled with spectators witnessing the magnificent dedication festival of a hundred days. The coins of Trajan record his conquest of Dacia, Armenia, Mesopotamia, and

his descent down the Euphrates and the Tigris to the Indian Ocean, the only Roman general who accomplished this feat. There are representations of the Forum, the most memorable of all Trajan's works; the Circus Maximus, which he embellished with the obelisk of Augustus; and the Aqua Trajana, by which he turned a portion of the pure and limpid Aqua Martia into the Aventine quarter of the city. The coins of Hadrian, besides bearing allegorical representations of divinities, countries, and cities, are of special interest as illustrating his extensive journeys into every Roman province, from Britain to the far East.

Such is the succession of types till the reign of Gallienus, when their interest flags, and for the most part we meet with badly executed representations of mythological personages.

The coins of the Christian Emperors differ much in their character. At first the types are generally allegorical; and though free from Pagan intention are not without Pagan influence, as may be seen in the types of Victory inscribing the Emperor's *vota* on a shield, or two Victories holding a wreath, or the seated figures of Rome and Constantinople. Though the coins of Constantine the Great are of a somewhat Christian character, yet purely Christian types are at first unusual. After a while, however, Victory no longer holds a wreath, but stands grasping a cross, and in place of representations of some mythological personage we find the monogram of Christ formed of X and P. In the purely Byzantine period all the Pagan

Christian
Types.

influence disappears, and Christian types prevail, the most common being that of the Holy Cross raised high on steps.

Iconographic Types.

The coins of the later Emperors of the East are specially interesting for their iconographic types. Representations of a large number of sacred figures are to be found upon them, and these representations are far superior in execution, and, therefore, of much greater value for the study of Christian iconography than any to be found on the mediæval coins of Western Europe. The figures of Christ and the Virgin offer a variety of different attitudes. The former is most frequently seated, holding in one hand the gospels and with the other giving the Greek benediction. The Virgin is frequently seated; sometimes she holds in her arms the infant Saviour, sometimes she crowns the Emperor who stands beside her, often with both hands raised in the attitude of prayer. In one very interesting type she stands amidst the walls of Constantinople. A number of Saints are also represented, among which may be cited St. George, St. Michael, St. Demetrius, St. Theodore, and (St.) Constantine the Great; also in one famous instance we see depicted the worship of the Magi.

Inscriptions.

The inscriptions on the coins of the Pagan emperors are either descriptive, giving the Emperor's name and the date, partly on the obverse, and partly on the reverse; or else they are of a dedicatory nature, adding to the name of the Emperor a reference to the type. From Titus to Severus Alexander the chronological character of the in-

scription is maintained, giving the current consulship of the Emperor, or his last consulship, and the year of his tribuneship; but in the latter half of the third century we meet with the Emperor's name alone on the obverse, and a dedicatory inscription on the reverse. Very little change occurs under the early Christian Emperors, except that the legend on the reverse loses its mythological character, and it is some time before the gradual transformation of the Roman State into the Eastern Empire is traceable in the coinage. Anastasius was the first who used Greek letters to indicate the value of the coins; yet although under Justinian I. the Greek language was much used by the people, it is not till the reign of Heraclius that the Greek legend EN TOYTΩ NIKA is found upon the coins. In the eighth century the Greek titles of *Basileus* and *Despotes* make their first appearance in the place of *Augustus*, and under the Basilian dynasty Greek inscriptions occupy the field of the reverse of both silver and copper coins; but the reverse of the solidus retains its Latin form till the latter part of the eleventh century, when it is found for the last time on the coins of Michael VII., A.D. 1078. Alexius I. was the first Emperor who adopted entirely Greek legends for his coins, and after his accession Latin never appears again on the coinage of the Roman Empire, which now loses all trace of its Western origin, and becomes purely Byzantine. The most remarkable change in the coinage of the late Byzantine period was the introduction of concave pieces, *scyphati nummi*. This



form was introduced as early as the close of the tenth century, but did not become the prevailing type of the gold, silver, and copper coinages till the end of the eleventh.

Local
Mints.

When the Roman Empire came under the sway of Augustus, the Roman monetary system was imposed as the official standard in financial business throughout the Empire, and no mint was allowed to exist without the imperial licence. This permission was, however, conceded to many Greek cities, which for the most part struck only copper coins; a few issued silver, but the only local mint of which gold coins are known is that of Caesarea in Cappadocia. These coins are usually designated Greek Imperial.¹ Pure silver coins do not appear to have been issued to any great extent; and, if we except the large silver pieces struck in the provinces of Asia, and usually called medallions, the local currencies in this metal may be said to have ended with the reign of Nero, when the abundance of copper money placed the silver at a premium, and gradually drove it out of circulation.

The copper coinage of the Provinces had for the type of the obverse the head of the Emperor, etc., and for the reverse some mythological or historical subject: the inscriptions were always in Greek. In the second century the issues of this copper money increased very rapidly; but as the Roman denarius became more and more debased, and the local mints could no longer make a profit by issuing coins on any local standard, one city after

¹ See Chapter II., page 40.

the other gradually ceased to exercise the right of coining, and by the end of the reign of Gallienus almost the only provincial mint of importance remaining was that of Alexandria, which continued to issue its coins till the reign of Diocletian. This mint was able to hold out longer than the others, because it adopted the same tactics as the imperial mint at Rome: as the denarius became more and more debased, Alexandria, to keep pace, lowered the standard of all her coins, and the silver became potin, and the potin, copper.

Alexan-
drian
Coinage.

Apart from these mints there existed from time to time others, which issued gold and silver coins after the Roman types and standard. It is probable that these coins were of the same nature as the *nummi castrenses* of the time of the Republic, their issue being superintended by the military or civil governors of the provinces. One of these mints was established at Antioch in the time of Vespasian and continued through the succeeding reigns to Gallienus. Its coins, the aureus and denarius, are of a peculiarly rude fabric. The denarius was also struck at Ephesus during the reigns of Vespasian and Domitian. In the western part of the Empire Spain struck coins of the Roman standard and types in considerable numbers from the reign of Augustus to that of Titus, and in Gaul we find a large number of aurei issued during the same period. The coinages of Clodius Macer in Africa, of Clodius Albinus in Gaul, of Pacatianus, Regalianus, and Dryantilla at Siscia,

and similar issues, must be considered as exceptional and as having no legitimate authorisation.

When the base silver State coinage had driven the Greek Imperial copper coins out of circulation, Gallienus established local mints throughout the whole Empire, which struck money after the Roman types and standard. The number of these mints was further increased by Diocletian, and they continued to exercise their rights till the extinction of the Roman rule in the West and afterwards in the East. At first there was no indication on the coin that it was struck out of Rome; but Diocletian placed on all the coins, both of Rome and elsewhere, a monogram or initial letter of the city whence they were issued.

Medallions
and
Tickets.

Besides coins proper, there are certain pieces in metal which resemble money in appearance, but which were never meant to pass as currency. These are the medallions, which correspond to medals of the present time, and the tickets, which served as passes to the public entertainments, etc.

The types of the medallions resemble those of the copper sestertius, having on one side the portrait of an imperial personage, and on the other some mythological, dedicatory, historical, or architectural subject, which more often than in the case of the coinage has some special reference to the imperial family. The size of the medallion is usually somewhat larger than that of the sestertius, and it is easily distinguished from the coins by the absence of the letters s.c., by its finer workmanship, and by being in high relief. These pieces were struck in

gold, silver, and especially copper. The silver and copper medallions were apparently first issued in the reign of Domitian ; but the first gold specimen extant is of the reign of Diocletian, after whose time gold and silver medallions are more general than those of copper. The finest pieces were issued by Antoninus Pius, Marcus Aurelius, and Commodus ; but the quality of the work was fairly maintained at a later period, when the coinage had much deteriorated in style and character. Even during the reigns of Constantine the Great and his successors, the execution of the medallions is throughout much superior to that of the current coins. It is probable that these pieces were all struck as honorary rewards or memorials, and were presented by the Emperor to his troops or to those about the court. It has been supposed that they were intended to be placed on the standards, because some are provided with deep outer rims, but this seems doubtful, as in all representations of standards on the column of Trajan and other buildings it may be seen that the medallions, with which they are adorned, have the bust of the Emperor facing, whereas on existing pieces it is always in profile.

Of the tickets the most important are the *con-torniates*, so called because they have the edge slightly turned over. These pieces are of copper, of the size of the sesterlius, but somewhat thinner, and they have for types on one side some mythological, agonistic, or historical subject, relating to the public games or to the contests which took place for the honours of the amphitheatre, the

circus, the stadium, or the odeum; and on the other side, a head or bust, imperial or regal, or of some philosopher, author, or poet. The question of the object of these pieces, and the time when they were struck, has provoked much discussion, but these two points seem now to have been fairly settled. It appears that they were made for presentation to the victors at the public games and contests, who used them as a kind of check, on the presentation of which at some appointed place and time they were awarded the allotted prizes; and, judging from the fabric, their issue appears to have begun in the reign of Constantine the Great, and to have been continued to about that of Anthemius, A.D. 464-472, that is, for a space of about 150 years.

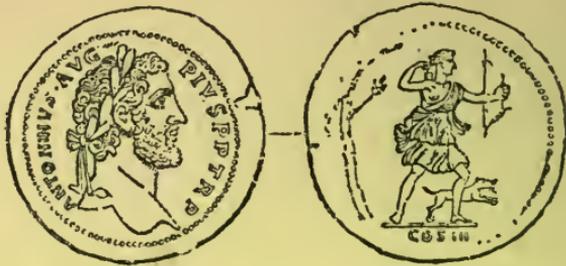
Medallic
Art.

In the massive and rude forms of the early coinage of Rome, bold in relief, and not without some knowledge of the laws of perspective, we see illustrated the stern, hard character of the Roman, whose entire attention was given either to universal conquest abroad or to agricultural pursuits at home. Art to him possessed no charm; he was devoid of elegance and taste, and even the nobles prided themselves on their natural deficiency in matters of art, which they considered unworthy of a warlike and free people. This feeling, at the end of the second century B.C., became somewhat softened by the presence in Rome of the vast spoils of Greece, consisting chiefly of statues and paintings; and if the people still despised the practical cultivation of the arts, they were in

general delighted with the beauty, or perhaps the novelty, of these acquisitions. This increasing taste for art may be traced in the types of the coins, which during the Republic acquire a pictorial character. If compared artifiially with the earlier period, this may be called progressive.

With the Augustan age came a visible change, and Greek artists were encouraged to visit Rome, not only to adorn the temples of the gods, but also to embellish the villas of the rich, into many of which numerous original works from Greece, Asia, and Egypt had already found their way. As the taste increased, and it was impossible to furnish all with original Greek works, there arose a great demand for copies of the most famous and best-known objects. Instances of these copies may be seen in the British Museum in such works as the Discobolus, which is supposed to be taken from a bronze figure by Myron; the Townley Venus, which, if not a work of the Macedonian period, may be a copy of one; and the Apollo Citharoedus, probably adapted from some celebrated original, since two other nearly similar figures exist. Though we cannot claim much originality for the Roman artists at this period, they are not mere servile copyists; by a frequent modification of the original design they give a stamp of individuality to their works. What has been said of sculpture applies alike to medallic art, and the effect of this Greek influence is very marked on the coins of the Augustan age, and especially on those of the two Agrippinas, Caligula, and Claudius. The mythological figures

which we meet with on these coins often strike us very forcibly as copies of Greek statues. Jupiter seated holding his thunderbolt and sceptre; Minerva leaning on her spear and shield ornamented with the serpent; Spes tripping lightly



MEDALLION OF ANTONINUS PIUS.

forward, holding a flower and gently raising her dress; and Diana rushing onward in the chase, her bow in her outstretched hand, and her hound at her heels—are all representations of Greek subjects. The coins of Nero show the perfection which portraiture had attained, the growth of his passions being traceable in the increasing brutality of his features; whilst the coinages of Trajan, Hadrian, Antoninus Pius, and Aurelius display the highest state of Roman medallic art. With the decay of the Empire comes an immediate decline in the workmanship of the coinage; from Commodus to Diocletian it was one continued downward course. The coins of the early Christian Emperors show a slight artistic revival, and when, in later times, the artists of the West poured into Constantinople, carrying with them all that remained of artistic life in the

ancient world, they imported into the coinage that style of ornament so peculiarly Byzantine, the traces of which are still to be seen in the architecture of the Greek Church both in Europe and Asia.





CHAPTER IV.

THE COINAGE OF CHRISTIAN EUROPE.



UNDER this title is included the coinage of all that portion of Europe which was not subject to the rule of Mohammedan princes, from the fall of the Western Empire to our own day. When we consider what vast fields of space and time are covered by this branch of numismatics, it will be seen to be too large a subject to be fully dealt with in a single chapter. The difficulty is found to be increased when we take into account how many different interests the study touches. The mere economist, the historian, the student of the history of art, and the student of Christian iconography, might each expect to have his enquiries answered were there an entire volume at our disposal. The only circumstance which makes it possible to deal with the subject briefly as a whole is the fortunate tendency which in all ages the different countries of Europe have shown to bring their coinage into some sort of common conformity.

Of this tendency we have plenty of examples in our own day, as, for instance, the practical uniformity which by the "Monetary Convention of the Latin Nations" was established in the coinages of Belgium, France, Switzerland, and Italy; in the recently-established uniformity of coinage throughout the German Empire; and in the inclination which the establishers of this coinage have shown to model their currency upon that of England. The same kind of tendency among contemporary nations is to be detected throughout the numismatics of the Middle Ages, and in truth by no means diminishes in force the further we retreat toward the beginnings of mediæval history; a fact which will seem strange to those who are accustomed to look upon the Europe of these days as a mere collection of heterogeneous atoms, and its history as nothing better than a "scuffling of kites and crows."

It is thus possible in some degree to study the numismatics of the Middle Ages, and of more modern times, as a whole; and in a very rough way to divide its history into certain periods, in each of which the most striking characteristics numismatically and the most important events can be pointed out, without any attempt to follow in detail the history of the currency in each land. When in a subsequent chapter we come to speak of the English coinage, a more minute treatment of that special branch will be possible.

The periods into which I propose to divide the numismatic history of Christian Europe are these:

Division of
the Subject.

PERIOD I. Transition between the Roman and the true mediaeval: let us say, from the deposition of Romulus Augustulus (A.D. 476) to the accession of Charlemagne (A.D. 768).

PERIOD II. From the rise of the new currency which was inaugurated by the house of Heristal, and which attained its full extension under Charles the Great, for all the time during which this currency formed practically the sole coinage of Western Europe.

PERIOD III. From the re-introduction of a gold coinage into Western Europe, which we may date from the striking of the *Fiorino d'oro* in Florence, in 1252, to the full development of Renaissance Art upon coins, about 1450.

PERIOD IV. From this year, 1450, to the end of the Renaissance Era, in 1600.

PERIOD V. That of modern coinage, from A.D. 1600 to our own day.

Special
Points of
Interest
belonging
to each
Period.

This division of our subject may serve at once to give the student some general notion of the sort of interest which pre-eminently attaches to the numismatics of each period. If he is concerned with the earliest history of the Teutonic invaders of Roman territory, with what may almost be called the *prehistoric* age of mediaeval history, he will be disposed to collect the coins which belong to our first division. The coins of the second period are of great value for the study of the true Middle Ages, not only as illustrations of that history, but for the light which they shed upon the mutual relations of the different nations of

Christendom, upon the economical history of this age, and lastly upon the iconography of this, the dominant, era of mediæval Catholicism. The coinage of the third period illustrates, among other things, the rise in wealth and importance of the Italian cities, the greater consideration which from this time forward began to attach to the pursuits of wealth and commerce, and a consequent growth of art and of intellectual culture. The coins of the fourth period, beside their deep historical interest for the portraits which they give us of the reigning sovereigns or rulers, are pre-eminent in beauty above those of any other of the five periods, and alone in any way comparable with the money of Ancient Greece. Finally, the fifth period will be most attractive to those whose historical studies have lain altogether in the age to which it belongs.

It is generally found that a monetary change follows some time after a great political revolution. People cannot immediately forego the coinage they are used to, and even when this has no longer a *raison d'être*, it is still continued, or is imitated as nearly as possible. Thus, though from the beginning of the fifth century (A.D. 405) a steady stream of barbarian invasion set into the Roman Empire, from the Visigoths in the south and from the Suevi and Burgundians and their allies in the north (in Gaul), no immediate change in the coinage was the result. The money of the Roman Empire in the West and in the East circulated among these barbarians, and was imitated as closely as possible by them. The new-comers

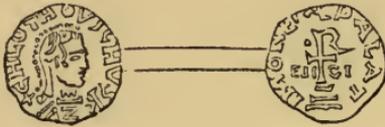
PERIOD I.
From
Augustulus
to Charle-
magne.

did not even venture to place their names upon the money; but the names of their Kings were sometimes suggested by obscure monograms. The first coin which bears the name of any Teutonic conqueror is a small silver coin which shows the name of Odoacer (A.D. 476-490), and this piece is of great rarity. The Ostrogothic Kings in Italy, after the accession of Athalaric to the end of their rule (A.D. 526-553), and the Vandal Kings in Africa subsequent to Huneric (*i.e.* from A.D. 484-533), placed their names upon coins, but only upon those of the inferior metals. The full rights of a coinage can scarcely be claimed until the sovereign has ventured to issue coins in the highest denomination in use in his territory. These full rights, therefore, belonged, among the people of the Transition Era, only to three of the conquering Teutonic nationalities: (1) to the Visigoths in Spain, (2) to the Franks in Gaul, and (3) to the Lombards in Italy.

The Visigothic coinage begins with Leovigild in 573, and ends with the fall of the Visigothic kingdom before the victorious Arabs at the battle of Guadaleta in 711. The coins are extremely rude, showing (generally) a bust upon one side, on the other either another bust or some form of cross. Three main types run throughout the series, which consists almost exclusively of a coinage in gold.

The Frankish coinage is likewise almost exclusively a gold currency. It begins with Theodebert, the Austrasian (A.D. 534), and, with unimportant

intervals, continues till the accession of the house of Pepin. At first the pieces were of the size of the Roman *solidus* (*solidus aureus*), but in latter years more generally of the size of the *tremissis*. Below is a specimen of a Frankish tremissis, struck by Chlovis II. (A.D. 638-656), and with the name of his treasurer, St. Eloi. It is noticeable that in this series only a few pieces bear the names of the monarchs, while the rest have simply the names of the towns and the moneyers by whom they were struck.



COIN OF CHLOVIS II.

The Lombardic coinage of North Italy—of the Kings of Milan and Pavia—begins with Cunibert (A.D. 687), and ends with the defeat of Desiderius by Charlemagne, 774, in which year the Frankish king assumed the crown of Lombardy. The coinage is generally of gold, and of the type of

Coins of
the Lom-
bards.

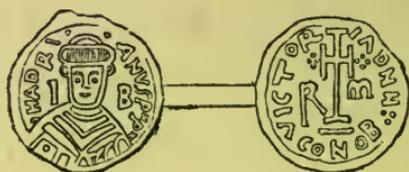


COIN OF CUNIBERT (680—702).

the coin of Cunibert represented in the figure, showing on one side the bust of the King (imitated from the Roman money), and on the reverse the figure of St. Michael, legend scs MIHAHIL. This

faint was, we know, especially honoured by the Lombards.¹ Another Lombardic coinage was that of the Dukes of Beneventum, who struck pieces upon the model of the money of the Eastern Emperors.

The figure below represents the earliest papal coin, that struck by Pope Adrian I. after the defeat of Desiderius in A.D. 774.



COIN OF POPE ADRIAN I. (772—795).

PERIOD II.
True
Mediaeval
Period.

The second age is the true Middle Age, or what is sometimes called the Dark Age; for with the beginning of our third period, which it will be seen is nearly that of the last crusade, the first dawn of the Renaissance is discernible. It follows that in the scarcity of printed monuments of this age, the coinage of the period is one deserving of a very attentive study, and of a much more detailed treatment than I am able to bestow upon it.

The coinage inaugurated by the house of Pepin has the peculiarity of being totally unlike any currency which preceded it. The three chief autonomous barbarian coinages which we have enumerated above consisted almost exclusively of gold money; the coinage inaugurated by the

¹ Paul. Diac., *Hist. Lang.*, iv. 47; v. 3, 41.

Carlovingian dynasty was almost exclusively of silver. Silver from this time forth, until the end of our second period, remained the sole regular medium of exchange; a gold coinage disappeared from Western Europe, and was only represented by such pieces as were imported thither from the east and the south. Such gold coins as were in use were the bezants or *byzantii*, i.e., the gold coins of the Roman Emperors of Constantinople, and (much less frequently) the *maravedis*, or gold coins struck in Spain by the Moorish dynasty of Al-Moravides (El-Murabitin). When Charles extended his Empire to its greatest limits, he introduced almost everywhere in Europe the new silver coinage, which was known as the new denier (*novus denarius*), or possibly in German as *pfenning*.¹ This denarius was the first coinage of Germany. In Italy it generally superseded the Roman denarius, or the coinage of the Lombards.

The usual type of this *New Denarius* was at first (1) simply the name or monogram of the Emperor, and on the reverse the name of the mint or a plain cross; (2) the bust of the Emperor, with a cross on the reverse; or (3) the bust of the Emperor on the obverse, and on the reverse a temple inscribed with the motto XPISTIANA RELIGIO. The pieces engraved on the next page, probably of Charles the Bald, are good examples of the earliest

¹ Our word *penny* (orig. *pending*, *pening*) is equivalent to the Old High German *Phantine*, whence *Pfenning*, *Pfennig*, and is derived from the Anglo-Saxon *pand* (German *Pfand*), a pledge. So Sanders and Skeat; but F. Kluge (*Etym. Wörterb.*, 1883) speaks doubtfully concerning the derivation of Pfennig.

types of denarii. One of the first documents referring to this coin is a capitulary of Pepin the Short (755), making its use compulsory in his dominions. In imitation of the new denarius, the *penny* was introduced into England by Offa, King of Mercia (757-794). The only exceptions to the general use of this denarius in Western Europe were afforded by those towns or princes in Italy which imitated the money of the Byzantine Empire.



CARLOVINGIAN DENARIUS.

This was the case with some of the earlier Popes, as is shown by the coin of Adrian I., represented on p. 80, which is quite Byzantine in type. Venice, which at first struck denarii of the Carlovingian pattern, after a short time changed this currency for one closely modelled upon the Byzantine pattern, while other neighbouring cities followed her example.

Mediaeval
Coins of
France.

After the accession of the race of Capet to the throne in France, the denarii continued little

changed; and not only in the districts over which ruled the early kings of this dynasty, but over the greater part of what is now France. The number of feudal divisions into which the country was split up is shown by the numerous princes' names which appear upon the currency, but they did not cause much variety in the type of the money. The types continued to be various combinations of (1) an inscription over all the face of the coin; (2) a rude bust, sometimes so degraded as to be barely distinguishable; (3) the conventional equal-armed cross; (4) a changed form of the temple, made to take the appearance of a Gothic arch between two towers. This type in its most altered shape has been sometimes taken for the ground-plan of the fortifications of Tours.

In Germany, the Carolingian Emperors were succeeded by the Saxon dynasty, which in its turn gave place to that of Franconia. During all this period (A.D. 919-1125), the denarius continued the chief, and almost the sole, coin in use in Germany. Here, however, the variety of types was much greater, though most of these varieties may be shown to have sprung out of the old Carolingian types. The right of coinage was at this time even more widely extended in Germany than in France; but in the former country the nominal supremacy of the Emperor was generally—though far from universally—acknowledged, and his name was placed upon the coinage.

In Italy, most of the towns which possessed the right of a coinage derived it directly from the

Emperor: thus Genoa obtained this right from Conrad III.; Venice (at first), Pisa, Pavia, Lucca, Milan, are among the cities which struck coins bearing the names of the early German Emperors.

The first change which took place in the coinage of this our second period arose in Germany from the degradation of the currency. This reached such a pitch (especially in the ecclesiastical mints) that the silver denarius, of which the proper weight was about 24 English grains, was first reduced to a small piece not more than one-third of that weight, and next to a piece so thin that it could only be stamped upon one side. This new money, for such it was in fact, though not in name, arose about the time that the dynasty of Hohenstaufen obtained the imperial crown, that is to say, in the middle of the twelfth century. The pieces were called subsequently *Pfaffen-Pfennige* (parson's pennies), because they were chiefly struck at ecclesiastical mints; they are now known to numismatists as *bracteates*.

Pfaffen-
Piennige or
Bracteates.

Beside the coinages of France, Germany, Italy, and England, we have also briefly to notice those of Scandinavia and of Spain, both of which were inaugurated during the second age of mediæval numismatics.

Arabic
Currency
in the
North.

It is a curious fact that in the north, during the ninth and tenth centuries, we find that a large number of the contemporary Arabic silver coins (*dirhems*) were current. It seems at first sight extraordinary that they should have travelled so far, but less strange when we bear in mind the extensive

Viking expeditions which took place during the same period. As has been well said by a recent writer,¹ the Vikings gave a sort of reality to the popular notion that Christian Europe was an island; for, starting on one side to the west, they crept down all that coast of the continent until they reached the Straits of Gibraltar, and thence made their way into the Mediterranean, while on the other side, mounting the rivers which emptied themselves into the Baltic—the Vistula or the Dvina—with but a few miles of land-carriage they brought their boats to the Dnieper, and by that route upon the eastern side stole down into the same Mediterranean. It was in this way that the Vikings came in contact with the Arab merchants, and carried Arab money to the far North. It happened that this silver coin, the dirhem, was in weight just double that of the denarius current in Europe. Carolingian denarii, English pennies, and Arab dirhems were alike hoarded by the Norse pirates. It was not till the end of the tenth century that the Danes and Scandinavians began to make numerous imitations of the contemporary coinage of England. On the accession of Canute the Great to the English throne, A.D. 1016, a native currency obtained a firm footing in Denmark.

Between the battle of Guadaleta (A.D. 711) and ^{Spain.} the union of the crowns of Castile and Aragon (A.D. 1479), the Christian coinage of Spain was represented by the coins of these two kingdoms,

¹ Steenstrup: *Normannerne*, page 1.

the rest of the peninsula being in the hands of the Arabs or Moors. The coinage of Castile begins with Alfonso VI. (1073-1109); that of Aragon with Sancho Ramirez of Navarre (1063-1094). The money of these countries is a denarius of the same general module as the contemporary denarii of France. The usual types of these coins, as of all the contemporary coinage of Europe, consist of some combination of a profile head and a cross. Some pieces have a bust, facing.

Icono-
graphy.

The best specimens of Christian iconography contained upon coins are to be found in the series of Byzantine coins. Of these mention has been already made. In Italy we have S. Michael on the coins of the Lombards; S. Peter on the Papal money; S. Mark on that of Venice; and S. John upon the coinage of Florence. The Virgin and Child appear on the copper coins of the Norman Kings of Sicily, and S. Matthew on those of the Norman Dukes of Apulia. The *Sanctus Vultus* or holy icon of Christ, still preserved at Lucca, is represented on the money of that town. Upon the denarii of Germany and the Low Countries the iconographic types are also numerous, but the representation of the persons is very rude. Besides the symbols of the Three Persons of the Trinity—the Hand, the Cross, and the Dove—the second universal, the third comparatively rare—we see representations of numerous saints, each on the money of the town of which he was the special patron. Thus we have S. Lam-

bert for Liège and Maestricht, S. Servatius for Maestricht, S. Martin for Utrecht, S. Remachus (Stablo), S. Maurice (Magdeburg), S. Charlemagne (Aix la Chapelle), S. Boniface (Fulda), S. Kilian (Würzburg), S. Stephen (Metz and other places in Lorraine), SS. Simon and Jude (Magdeburg, Goslar), S. Peter (Lorraine, Toul, Cologne, Berg, Trèves, etc.), the Virgin (Lower Lorraine, Huy, Hildesheim, Spier, Augsburg).

On the coins of France sacred types and symbols, excepting the cross, which is all but universal, are less frequent during this age. The head of the Virgin occurs upon some coins. On the money of the Crusaders iconographic types are very common.

The general revival of a gold coinage in Europe followed, as we have said, the coining of the *forino d'oro* in 1252. But the first attempt to institute a currency in the most precious metal was made in Apulia by the Norman Dukes of that place. Roger II., who had long made use in Sicily of Arabic gold coins of the Fátimy type, at length struck gold coins of his own, which having his name and title, DVX APVLIAE, were called *ducats*. These pieces were struck about A.D. 1150. After the Hohenstaufen dynasty had succeeded the Norman Dukes in Apulia and Sicily, Frederick II., besides striking some gold pieces for his Arab subjects, issued a very remarkable coinage modelled upon the old Roman solidus and half solidus: on the obverse the bust of the Emperor in Roman dress, and on the reverse an eagle with wings

PERIOD
III.
Return to
a Gold
Currency.

The Fiorino d'Oro.

displayed. The legend was (obv.) FRIDERICVS, (rev.) IMP. ROM. CESAR AVG. The next State to follow this example was Florence, which in A.D. 1252 struck the gold florin, bearing on one side the figure of S. John the Baptist, and on the other the lily of the city. The corresponding silver coin bore the rhyming Latin verse,

“Det tibi florere
Christus, Florentia, vere.”

Owing in part to the great commercial position of the city, in part to the growing want felt



FIORINO D'ORO.

throughout Europe for a gold coinage, the use of the gold florin spread with extraordinary rapidity—

“La tua città
Produce e spande il maladetto fiore
Ch'a difviate le pecore e gli agni
Però c'ha fatto lupo del pastore.”¹

So general was the currency obtained by this coin in Europe that we presently find it largely copied by the chief potentates in France and Germany, as, for example, by the Pope John XXII. (at Avignon), the Archbishop of Arles, the Count of Vienne and Dauphiny, the Archduke Albert of Austria, the Count Palatine of the Rhine, the

¹ *Paradiso*, ix. 127-131.

Archbishop of Mainz, the free town of Lübeck, the Kings of Hungary and Bohemia, and the King of Aragon; while in other places, as France and England, where the first gold coinage was not so distinctly an imitation of the florin, it was obviously suggested by it.

The town of Italy which rivalled Florence in the extent of its issues was Venice, which first struck its gold coin, the ducat, about A.D. 1280. The piece was afterwards called *zecchino* (sequin). It bore on one side a standing figure of Christ, on the other the Doge receiving the standard (*gonfalone*) from S. Mark. The motto was of the same kind as that on the silver florin:

“Sit tibi, Christe, datus,
quem tu regis, iste ducatus.”

Genoa also issued a large currency in gold, as did the Popes (when they returned to Rome), and the Kings of Naples and Sicily.

The country north of the Alps which first issued an extensive gold coinage was France. This was inaugurated by S. Louis, of whom we have numerous and various types. Of these the *agnel*, with the Paschal Lamb, is the most important. Louis's gold coins are, however, now scarce, and it is possible that the issue was not large. It became extensive under Philip the Fair.

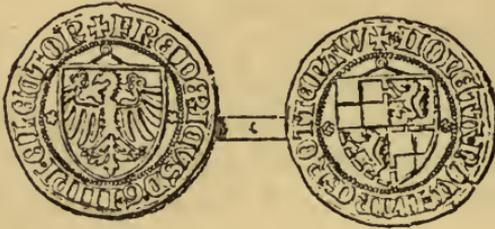
Other changes were introduced into the money of Northern Europe at this period. Large denarii, *grossi denarii*, afterwards called *grossi* (gros), and in English *groats*, were coined first at Prague, after-

wards chiefly at Tours. We have already spoken of the so-called *brañteates* of Germany. These at this time became larger, to correspond in appearance with the *grossi* of France and the Low Countries. The use of gold coins and of groats became general in England during the reign of Edward III.

Fourteenth
Century.

We have now arrived at the fourteenth century. The coinage of this period has certain marked characteristics, though the exact types are far too numerous to be even mentioned. The general characteristics of the fourteenth century money are these. In the first place it reflects the artistic, specially architectural, tendencies of the time. The architecture of this period, leaving the simplicity of the earlier Gothic, and approaching the Decorated or Flamboyant style, when more attention is paid to detail, is very well suggested by the coins, where we see the effects of the same minute care and beautiful elaboration. Nothing can in their way be more splendid than the gold deniers of Louis IX. But as time passes on, this elaboration becomes extreme, the crosses lose their simple forms, and take every imaginable variety suggested by the names *fleury*, *fleurt*, *quernée*, *avellanée*, etc., while the cusps and treffures around the types are not less numerous and varied. The iconographic types are fewer upon the whole, especially in comparison with the number of types in existence at this time; the crosses themselves are rather parts of the structure of the coins than religious symbols, while now for the first time

shields and other heraldic devices, such as crests, caps of maintenance, mantlets, etc., become common. The coin below may serve as a sample of the coinage of the early years of the fifteenth century. Anyone who is acquainted with the history of this century, the white dawn, as we may call it, of the Renaissance, will discern in these characteristics of the coinage the signs of the times.



GROS OF THE FIFTEENTH CENTURY.

From the time of the issue of the fiorino d'oro, the initiative in most of the great changes which were wrought in the coinage of Europe belonged to Italy. It is naturally on the coinage of Italy that the first rise of the artistic renaissance is discernible. It is in the fifteenth century that we first have portraits upon coins which are distinctly recognisable, and no longer merely conventional. This century is the age of the greatest Italian medallists, of Pisano, Sperandio, Boldu, Melioli, and the rest; and though these earliest medallists were not themselves makers of coin dies, it was impossible that their art could fail before long to influence the kindred art of the die-engraver. Portraits begin to appear upon the Italian coins about 1450. In the series of Naples we have

PERIOD
IV.
The Re-
naissance
Era.

Portraits.

during this century money bearing the heads of Ferdinand I. and Frederick of Aragon, and later on of Charles V. and Philip of Spain. The Papal series is peculiarly rich in portrait coins, which were engraved by some of the most celebrated artists of the fifteenth and sixteenth centuries, as by Francesco Francia and Benvenuto Cellini. The portraits of Alexander VI., Julius II., and Leo X., are especially to be noted. Cellini also worked for Florence, and we have a fine series of the Dukes and Grand Dukes of this city, beginning with the Alessandro il Moro. In Milan we have coins with the heads of Alessandro Sforza, of Galeazzo Maria and the younger Galeazzo, of Bona, the mother of this last, and of Ludovico, and again, after the French conquest, of Louis XII. and Francis; later still, of Charles V. and Philip. The coins of Mantua, Ferrara, Modena, Bologna, Parma, and Mirandola, are all worth a lengthy study. Venice and Genoa alone among the great towns of Italy kept their money almost unchanged, probably from commercial considerations, like those which prompted Athens to adhere to the archaic form of her tetradrachms.

In France, authentic portraits upon coins first appear in the reign of Louis XII., and the beauty of the medallion art in France is well illustrated by the money of Francis I. and Henry II., and only one degree less so by that of Charles IX. and Henry IV. The celebrated engravers Dupré and the two Warins worked during the latter part of the seventeenth century. In England, the most beautiful portraits are those on the coins of

Henry VII. and Henry VIII., though those of Mary and Edward VI. are only one degree inferior. The first Scottish coins with portraits are those of James IV. The German coins show traces of the peculiar development of German art. Those of the Emperor Maximilian are the most splendid and elaborate. Some of these are worthy of the hand of Dürer, to whom they have been attributed—though without much authority. Next to these, the series of Saxony, of Brunswick, of Brandenburg, and the coins of some of the German and Swiss towns, are to be noted. Even the remote northern lands, Sweden and Denmark, did not escape the influence of the age.

We must not omit to mention that the first rude coinage of Russia begins during this period. The country, however, possessed no properly ordered monetary system before the reign of Peter the Great.

The coinage subsequent to 1600, though it receives more attention from collectors than any other, must be pronounced, upon all historical grounds, by far the least interesting. And for this reason, if for no other, that our historical documents for this period are so voluminous that the coins can serve little purpose, save as illustrations of these documents; we cannot hope to gain from them any important light upon the times. Still, it cannot be denied that they have an interest regarded as illustrations merely, and some phases of this interest must be briefly indicated.

PERIOD V.
Modern
Coinage.

And first, in a general way, the modern coinage

illustrates well the rise of the commercial spirit of the West, which, taking a fresh start with the discovery of America in the fifteenth century, has since become perhaps the chief determining force of our modern civilization. For now the coinage of all countries becomes as much improved for commercial purposes as it is artistically debased. The introduction of the "mill" in the manufacture of coins, in place of the older device of striking them with a hammer, greatly improved their symmetry and the facility with which the money could be counted, while the use of an indented edge (commonly called "a milled edge") prevented the practice of clipping, which was so frequent in earlier times, and thus tended to keep coins to a just weight, and so greatly to simplify exchange.

Portraits of
Sovereigns.

In a more particular way the coins of each nation are interesting, as now always, or nearly always, bearing the head of the reigning sovereign of the country. By this means we get a series of historic portraits, which, if not of much artistic excellence, are, on the whole, trustworthy. These are the better from the fact that large silver coins (crowns or thalers) were now generally current in Europe, having been introduced during the preceding epoch. Gustavus Adolphus, Frederick the "Winter King" of Bohemia, and other heroes of the Thirty Years' War; Christina, Queen of Sweden; the "Great Elector" of Brandenburg; Charles XII. and Peter the Great; Louis XIV. and the contemporary Emperors of the House

of Austria; Frederick William I. of Prussia; Frederick the Great and Maria Theresia; an excellent series of the Popes; and finally the English sovereign, may be cited as the coin-portraits most likely to interest the historical student. The money of the Czar Peter deserves, indeed, a special attention, as it is the first regularly ordered series of coins issued in Russia, and, when compared with the money which preceded it, is a type by itself of the improvements which Peter introduced into the condition of the country.

Another feature connected with the large silver coins is a certain tendency which we find to make use of these for medallie purposes. This is especially the case in Germany. Among the earliest examples of this use may be cited the Luther celebration medals, issued in Saxony on the jubilees of the Reformation held in 1617 and 1630. The latest is the *Sieges-Thaler*, struck after the Franco-German War in 1870. The thalers issued by Ludwig, King of Bavaria, father of the present King, almost all of which commemorate either some event of his reign or the erection of some public building, form the largest series of coins of this medallie kind. The *schütz-thäler*, issued in Germany and Switzerland as rewards to those who had been successful in the national or cantonal shooting-contests, deserve mention in this place. The Papal coins are also frequently commemorative of historical events or of the erection of public monuments.

Finally, in some of the towns of Germany

Views of
Cities.

and Switzerland, the reverses of the coins bear views of these towns, which are sometimes so drawn as to form a very pleasing design. Bâle, Lucerne, Zurich, Augsburg, Cologne, Constance, Danzig, Hamburg, Magdeburg, and Nuremberg, give examples in various degrees of excellence of this style of decoration. Thus, while the coinage of England, as we shall have occasion to remark in the next chapter, toward the end of the seventeenth century loses all artistic merit and originality of design, and ceases to perform any function save that of a medium of exchange, the same fate does not till more than one hundred years later overtake some of the continental issues. The latest coins which can boast of artistic beauty are those of Napoleon I., especially the series struck for Italy, on which the head is finely modelled. Some of the coins struck during the French Revolution are interesting from their containing allusions to contemporary historical events.

Weights
and
Denomi-
nations.

The student of European history must be upon his guard against the danger of confounding *money of account* with coined money. As we have said, the *new denarius* of Charlemagne was, from the time of its introduction till the thirteenth century, practically the only piece coined in western continental Europe. The Roman gold coin, the *solidus*, however, continued to be used for some time, and for a much longer period it remained in use as a money of account. The solidus was translated in the Germanic languages by *schilling*, *shilling*, *skilling*. Thus when we read of *solidi* and

shillings it does not in the least follow that we are reading of actual coins. The real coins which passed current on the occasion spoken of were very probably simply the denarii, or pennies, but they were reckoned in the shilling or solidus of account which contained (generally) twelve denarii.

Other moneys of account were in reality simply weights, as (1) the *pound*, which was the Roman weight, the *libra*, containing twelve ounces, and in silver reckoned as equal to 240 denarii; and (2) the German (Teutonic) weight, the *mark*, equal to two-thirds of a pound, *i.e.*, eight ounces and 180 denarii. It need hardly be said that the actual weight of the denarius soon fell below this nominal weight of twenty-four grains. The recollection of the three denominations of *libra*, *solidus*, and *denarius* is preserved in our abbreviations *£ s. d.* for pounds, shillings, and pence.

We have already spoken of the *grossus*, or groat. The gold coins in France received a variety of names, of which the most usual and the widest spread was *écu*. In Germany the earliest gold pieces seem to have been called *ducats*, and this name was continued in the subsequent gold coinage of the sixteenth and seventeenth centuries. The weight of the ducat was founded upon the weight of the *florino* of Florence and of the *ducat* or *zecchino* of Venice, usually about fifty-four grains, and these equal to about one hundred denarii of the old value. As, however, the silver coins contemporary with these ducats, though nominally denarii, were exceedingly de-

based, the relative value of the gold was very much higher.

One other coin-name of wide extension is the *thaler*, or dollar. The origin of this name lies in the Joachimsthal near the Harz Mountains, the mines of which furnished the silver from which these large pieces were first struck.





CHAPTER V.

COINAGE OF THE BRITISH ISLANDS.

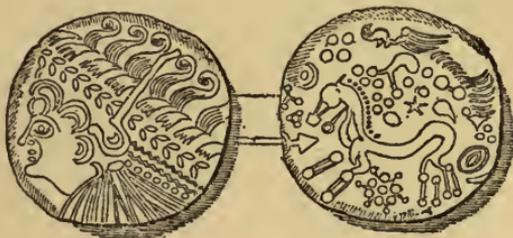
IN the last chapter a brief sketch was given of the general numismatic history of Europe in Christian times. In the present chapter we confine our attention altogether to the coinage of our own islands; not, however, from Christian times only, but from the earliest period in which a coinage was known here. During the greater part of this sketch it will be necessary to keep in mind the character of the currency in the other lands of Europe, for the monetary history of the Middle Ages—we might add the political history also—can only be properly studied as a whole. The different epochs into which the history of the coinage of Europe has been divided will therefore serve us again in the present case. Our first period, however, precedes any of these epochs, for here we have to do with a currency in use in Britain before the introduction of Christianity.

The circumstances attending the first introduc-

The Coinage of the Britons.

tion of a coinage into these islands require some explanation. For the remote causes of this event we have to go back as far as to the times of Philip of Macedon, and to the acquisition by him of the gold mines of Crenides (Philippi). The result of this acquisition was, as is well known, to set in circulation an extensive gold currency, the first which had been widely prevalent in the Greek world. The gold staters of Philip obtained an extensive circulation beyond the limits of Greece—a much wider circulation than could have been obtained by any silver currency. Through the Greek colony of Massalia (Marseilles), they came into the hands of the Gauls. Massalia was, we know, the chief trading centre for the western lands, and for the barbarian nations of Northern Europe. It was not long after the death of Philip that Pytheas, the great “commercial traveller” of Marseilles, made his voyages to Britain and the coasts of Germany, as far as the mouth of the Elbe, or even, some think, the Baltic. We may readily believe that Marseilles was then in some relation with Northern Europe through Gaul; and it would seem that at this time the Gauls began to appreciate the use of a coinage, and to make one for themselves. The pieces thus manufactured were simply imitations of the gold stater of Philip. That coin bore on the obverse a beardless head laureate, generally taken to be the head of Apollo, but by some the head of young Heracles, or of Ares. On the reverse is a two-horse chariot (*biga*). The Gaulish coins were copies of this.

piece, gradually becoming more rude as time went on, and about the middle of the second century B.C., the southern coast of Britain adopted from Gaul the same habit. The earliest British coins were thus of gold, and though immediately only copies of the Gaulish money, they were in a remote degree copies of the staters of Philip of Macedon. The copies have, in nearly every case, departed so widely from the original, that, were it not that the Gaulish money affords us examples of an intermediate type, we should have



BRITISH GOLD COIN.

great difficulty in recognising the relationship of the British to the Macedonian coin. This is the history of the introduction of a coinage into the British Isles.

The earliest coins of Britain were exclusively of gold, and were devoid of inscription; any sign which has the appearance of a letter being in reality only a part of the barbarous copy of the Greek coin, and without meaning in itself. About the time of Caesar's invasion, however, the coins begin to carry inscriptions upon them—the name of some chief or tribe, the former being in most

cases unknown to history save from his coins. One or two historical names do occur—as Commius, possibly the King of the Atrebates, who may be supposed to have fled into England; and certainly Cunobelinus, King of the Trinobantes, the Cymbeline of Shakespeare. After the Roman conquest of Gaul, the native currency there was exchanged for the imperial coinage, and the change soon affected the coinage of Britain, which from about the Christian era began to make coins upon the Roman pattern. This fact is symbolical of the Romanising influence in the southern districts, which in this country, and in so many others, preceded the actual subjugation of the land by Roman arms.

Roman
Mints.

After the complete Roman conquest the native currency ceased. Roman mints were not established in Britain until the time of Carausius (A.D. 287-293), who was Emperor in Britain only. Carausius' mints were Londinium and Camulodunum (Colchester). Between the time of Allectus and that of Constantine the Great no money was coined in Britain. The latter Emperor did not use a mint at Colchester, and struck at London only. The last imperial coins struck in Britain were those of Magnus Maximus (died A.D. 388).

Coinage
of the
Saxons.

From this period till after the beginning of the seventh century there is an almost total want of numismatic documents. There can be no question that the Britons continued to use the later Roman coins, especially those of Constantine and his immediate successors, which seem to have been

struck in large numbers. Such coins as came into the hands of the Saxon invaders would probably be cherished rather as ornaments than for any other purpose. This would at any rate be the case with the gold coins. We find that Roman gold coins were very extensively used as ornaments by the northern nations during the Viking age, and that they were imitated in those peculiar disc-like ornaments known as bracteates.¹ In the same way we find an imitation of a gold coin of Honorius engraved with Saxon runes. But gold belonged rather to the chiefs than to the great body of the people, and for the use of these last a regular coinage of silver appeared soon after the beginning of the seventh century.

The earliest Saxon coins, like the earliest British, The Scaet. are anonymous, the only trace of letters upon most of them being nothing more than a blundered imitation of the coin-legend which the engraver was endeavouring to copy; and for this reason it is impossible accurately to determine their date. These early Saxon coins are generally known to numismatists as *sceattas*, and it seems probable that at one time they were distinguished by that name. But *sceat* properly signifies only treasure,² and it is not likely that the word was at first used to denote any special denomination of coin.

The anonymous *sceattas*, hardly possessing an

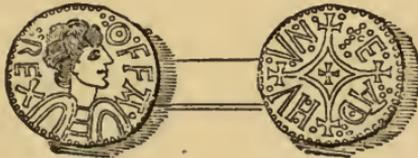
¹ These bracteates are not to be confused with the German silver bracteates spoken of in the last chapter. These were of gold, were made in the Scandinavian countries, and used as ornaments, not as coins.

² Primarily, *treasure*; secondarily, *tax*.

historic, or, in the strict sense, a numismatic interest, have suffered too much neglect at the hands of collectors. For they are, in some respects, the most curious and noteworthy coins which have been issued since the Christian era. In no other series of coins do we find among so small a number of individual pieces so great a variety of designs. The only series of coins which can in this respect be compared with the sceattas is that of the electrum pieces struck in Asia Minor in the fifth and fourth centuries B.C. The larger number of actual pieces among the sceattas are indeed copied from Roman coins; many also from Merovingian silver pieces. But among those which remain there are a great number of designs which seem perfectly original, and which far outnumber the *types* taken from any other source. Of these apparently original and native works of art we may count between thirty and forty distinct designs; and as they are probably earlier than most of the extant remains of Saxon or Irish architecture, and earlier than most of the Saxon and Irish manuscripts, the interest which belongs to these pieces is very great. It is impossible to describe these designs here; a great number consist of some fantastic bird, or animal, or serpent, similar to the animals which appear in such profusion in the Saxon manuscripts, and at a later period in architecture.

It is evident that the Germanic peoples had a special partiality for a coinage in silver; and this may have dated back to quite early days, when

the old consular denarii (*ferrati, bigatique*¹) were current among them. Mommsen tells us that when the silver coinage of Rome was debased, the old pieces of pure metal were almost absorbed for the purpose of exchange with the barbarian nations of the North. We find further evidence of this partiality in the fact that the silver sceattas were current in England before the grand reform made by the introduction of the new denarius into Europe,² and in the fact that this very reform was due to the most Teutonic (last Romanised) section of the Frank nationality. When, therefore, the great reform was brought about on the Continent, of which we have spoken in the preceding chapter, the effect was less felt in England than in any other land; it resulted merely in the exchange of the sceat for the silver penny, the former standing probably to the latter in the proportionate value of 12 to 20 ($=\frac{3}{5}$), though according to some documents they were in the proportion of 24 to 25.



PENNY OF OFFA.

The penny, introduced about 760, differed from ^{The} the sceat in appearance. The latter was small and ^{Penny} thick, the penny much broader but thin. The

¹ Tacitus, *Germ.*, c. 5.

² See Chapter IV., p. 81.

pennies of Offa are remarkable for the beauty and variety of their designs and an artistic excellence which was never recovered in after years. The usual type of the penny consists of, on one side, a bust, a degraded form of the bust on Roman coins, and on the reverse a cross; but a very large number of coins have no bust, and the cross is by no means an invariable concomitant. The legend gives the name of the King as OFFA REX, AELFRED REX, or with the title more fully given, OFFA REX MERCIORUM. On the reverse appears the name of the moneyer, that is to say, the actual maker of the coin; at first the name simply, as EADMUUN, IBBA, later on with the addition of MONETA (for *monetarius*), and later still with the name of the town at which the piece has been struck, as GODMAN ON¹ LUND. Town names begin to appear on coins in the reign of Egberht, King of Wessex. They are not infrequent on the pennies of Aelfred, and universal from the time of Aethelred the Unready.

It is to be noticed that the treasure plundered from England by the Vikings seems first to have given to the Northern people the notion of issuing a currency. Rude imitations of Saxon money are frequently discovered in the Western Isles of Scotland, and were doubtless issued by order or for the behoof of the Danish or Norwegian Kings of those parts. In the same way we find that the Norse Kings in Ireland issued a coinage in imitation of that of Aethelred II. Most of the early coins of Norway are likewise copied from the coins of this King. When the Danish dynasty of Cnut

¹ Probably for [M]ON[ETARIUS].

(Gormsfon) supplanted the English line of Kings, it made no change in the coinage of this country, though it was instrumental in introducing an improved coinage into Denmark.

Nor, again, did the Norman conquest make any immediate change in the English currency. The penny long remained the sole English coin. The variety of towns at which money was struck, of moneymen employed for this work, and of types made use of by them, reach their maximum in the reign of Edward the Confessor; but those of William I. and William II. (for the coins of these two Kings cannot with certainty be distinguished) are little less numerous. After the reign of William II., however, all these begin steadily to decline, until we find, in the reign of Henry II., only two different types, and the latter of the two extending, without even a change in the name of the King, into the reign of Henry III. This simplification in the appearance of the penny corresponds with a certain amount of centralization in the regulation of its issues. It would seem that down to the middle of the reign of Henry II. each separate moneyer was responsible for the purity of his coins, but that shortly after this date a general overseer was appointed, who was responsible to the King's Government.

In this approach to uniformity the general types which survive are those which have on the obverse the head or bust of the King facing, and on the reverse some kind of cross. At the beginning of the reign of Henry II. the latter is a cross *patée*

cantoned with crosslets. This changes to a short cross voided (that is, having each limb made of two parallel lines, very convenient for cutting the coin into halfpence and farthings), and that again changes to a longer cross voided. But in the reign of Edward I. the forms of both obverse and reverse become absolutely stereotyped. And this stereotyping of the coin into one single pattern is the first very important change in the penny which took place since its introduction. The stereotyped form henceforward until the reign of Henry VII. is as follows: *obverse*, the King's head (sometimes with slight traces of bust), crowned, facing; *reverse*, a long cross *patée* with three pellets in each angle. In this reign, too, the names of moneyers cease to be placed upon coins. Robert de Hadley is the last moneyer whose name appears. Finally we have to notice that Edward I. re-introduced a coinage of halfpence, unknown since Saxon times, and first struck the groat and the farthing. The groats were not in general circulation till the reign of Edward III.

Groat,
Halfpenny,
Farthing.

We have many documents showing that in making these changes of coinage Edward I. also reformed the constitution of the mint in many particulars. His pennies obtained a wide circulation not only in this country but on the Continent, where they presently (much as the *forino* did) gave rise to imitations. The closest copies are to be seen in the money of the various states of the Low Countries, as the Dukedom of Brabant, the Counties of Flanders, Hainault, etc. Other imitations are to be found in the denarii of the

Emperors of Germany and the Kings of Aragon. The English money never followed the rapid course of degradation which was the lot of the continental coinages; wherefore these English pennies (also called *esterlings*, *sterlings*, a word of doubtful origin) were of quite a different standard from the continental denarii. The English penny did, indeed, continually diminish in size, so that before the type introduced by Edward I. was radically changed (in the reign of Henry VII.), the penny had shrunk to not more than half of its original dimensions. But this degradation was slow compared to that which was undergone by the continental coins.

We have now for a moment to retrace our steps to the latter part of the reign of Henry III. In the preceding chapter we spoke of the re-introduction of a gold currency into Western Europe. Only a few years after the first issue of the *fiorino d'oro*, namely, in 1257, we find the first record in the annals of the English coinage of the issue of a gold currency. In this year Henry III. struck a piece called a gold penny. It represented on one side the King enthroned, on the other bore a cross voided cantoned with roses; and was at first valued at twenty pence, afterwards at twenty-six. The innovation was premature, and the coin being unpopular had soon to be withdrawn from circulation. It was not till nearly ninety years afterwards that a regular gold coinage was set on foot.

In 1343 or 1344 Edward III. issued this new gold coinage. It at first consisted of pieces

Intro-
duction of
a Gold
Coinage.

Florins.

called *florins*, half and quarter florins. The obverse types of these three orders of coins were—(1), the monarch enthroned between two leopards; (2), a single leopard bearing the English coat; (3), a helmet and cap of maintenance with small leopard as crest; a cross formed the reverse type in every case. These pieces were rated too high, and were almost immediately withdrawn from circulation; after which were issued coins of a new type and denomination, *nobles*, half-nobles, and quarter-nobles.

Nobles.



NOBLE OF EDWARD III.

The nobles and half-nobles were the same in type; on the obverse they showed the King standing in a ship; the quarter-noble contained a shield merely on the obverse. The type of the noble is perhaps commemorative of the naval victory off Sluys. The legend on the noble was IHS [JESUS] AVTEM TRANSIENS PER MEDIUM ILLORVM IBAT (S. Luke iv. 30), a legend which long continued on the English money, and which has given rise to a good deal of absurd speculation. The legend was a charm against thieves, but possibly bears some further reference to the victory commemorated

by the type. The noble was made equal to half a mark (a money of account), or 80 pence English; in weight it was exactly that of the modern English sovereign, 120 grains. As it was of very pure gold, and perhaps the finest coin then current in Europe, it was, like the penny of Edward I., a good deal imitated abroad (always, we may be sure, to the advantage of the imitator), and laws were constantly being enacted, without much success, to hinder its exportation.

Before we leave the reign of Edward III. we must cast one glance at a class of coins which now began to assume considerable dimensions, namely, the *Anglo-French* money, or coins struck for the English possessions in France. These naturally followed French types and denominations. As early as the reign of Henry II. we have deniers struck for Aquitaine; Richard I. struck for Aquitaine, Poitou, and Normandy; Edward I. coined for Aquitaine and Bordeaux. But under Edward III. and the Black Prince (Governor of Guienne) quite a large issue of Anglo-French coins, both in gold and silver, appeared. The gold coins of Edward III. were the *guiennois* (standing figure in armour), *leopard*, *chaise* (King enthroned), and *mouton* (Paschal Lamb), and in silver the *bardi* (half-figure holding sword), *double-bardi*, *gros*, *demi-gros*, *denier*, *demi-denier* (also apparently called *ardit* [*sic*]). Edward Prince of Wales struck *guiennois*, *leopard*, *chaise*, *demi-chaise*, *hardi* (d'or), and *pavillon* (prince under a canopy), and in silver money the same as his father. Edward III. began,

too, the issue of Calais silver groats, which (as Calais was really henceforth an English town) can scarcely be counted among the Anglo-French coinage. In every respect, this coin, as well as the Calais half-groat, penny, etc., exactly corresponded to the English money. In order to end the subject we may add that Richard II. struck gold and silver hardis and demi-hardis as well as deniers and half-deniers. Henry V. struck in gold moutons and demi-moutons, and possibly *salutes* (the angel saluting Mary), and gros. Henry VI. struck *salutes*, *angelots*, and *francs*, and in silver grand and petit *blancs*. He also continued an extensive issue of Calais money. With Henry VI. the Anglo-French coinage really comes to an end.

Edward IV. introduced some important changes into the gold coinage. He seems to have struck a few nobles of the old type; but he very soon made an alteration in the type of the noble by substituting on the reverse a sun for the older cross, and on the obverse, placing a rose upon the side of the ship, in the form of which last some other changes were introduced. From the rose on the obverse the coins came to be called *rose nobles*, and owing to changes in the relative values of gold and silver they were now worth 10s. (120 pence), instead of 6s. 8d. (80 pence) as before. To supply a coin of the old value of half a mark, a new gold piece was struck, called at first the angel-noble, but soon simply the *angel*. On one side it represented a ship, bearing (instead of the King) a cross; on the other was S. Michael

Rose
Noble.

Angel.

overcoming Satan. The motto was PER CRUCEM TVAM SALVA NOS XPE (CHRISTE) REDEMPTOR.

They have in England
A coin that bears the figure of an angel
Stamped in gold, but that's inculp'd upon :
But here an angel in a golden bed
Lies all within.¹

Shakespeare is much given to playing upon this word,² and we find frequent allusions of the same kind in other writers, his contemporaries.



ANGEL, OF EDWARD IV.

We have spoken of some coins probably struck by the Norfemen in the western isles. The regular coinage of Scotland does not begin before 1124 (David I.), when an issue of pennies (or *sterlings*, as they were generally called in Scotland) began. Even yet we find that offences were more frequently punished by fines of cattle than of money. At first the money of Scotland copied very closely the contemporary currency of England. Thus the pennies of David resemble those of Henry I.; the next coinage, that of William the Lion, grandson of David (1165-1214) resembles the money of

Scottish
Coinage.

Sterling.

¹ *Merchant of Venice*, ii. 7.

² Cf. *Merry Wives of Windsor*, i. 3; *King John*, ii. 1.

Henry II. ; the pennies of Alexander II. have short and long voided crosses, like those of Henry III., and the coins of Alexander III. are like those of Edward I. This King, like Edward, added halfpennies and farthings to the currency of pennies. But both the moneymen and the places of mintage are far less numerous in Scotland than in England. We count no more than sixteen of the latter. The coinage of John Baliol and of Robert Bruce followed the type of Alexander III. The mint-records for these reigns are lost: they begin again in the reign of David II. This King issued nobles after the pattern of Edward III.'s nobles. He also struck groats and half-groats, pennies, halfpennies, and farthings.

All this time it will be seen that, despite the war between the two countries, English influence was paramount in determining the character of the Scottish coinage. There was present a certain French influence as well, which may be detected in minor marks upon the coins (fleurs-de-lis, and such like), and which was exercised also in a very unhappy direction towards a degradation of the currency. Scotland followed the continental fashion in this respect, and the commercial relations of the two bordering countries are marked by a perpetual chorus of complaint on the part of England of the debased character of the Scottish money. Thus in 1372 we find both Scottish gold and silver forbidden in England, and as if the prohibition had been relaxed, it is repeated in 1387. In 1390 Scottish money is admitted at

half its nominal value; in 1393 it is forbidden again, save as bullion, and in 1401 there is a decree of Parliament to the same effect.

In the reign of Robert II. Scotland took a new departure by coining some gold pieces of an original type (no longer borrowed from England), viz., the *Lion* and *St. Andrew*. The first had the shield of Scotland with rampant lion, the second the figure of St. Andrew with a shield on the reverse. In the reign of Robert III. we note a further sign of continental influence in the introduction of *billon* (base metal) coins. James I. struck the *demy* (Obverse, arms in lozenge; Reverse, cross in tressure) and *half-demy*; James II. struck demies, St. Andrews, and half St. Andrews. James III. introduced two new types of gold coins, viz., the *rider* (knight on horseback) and the *unicorn*, which shows a unicorn supporting the Scottish shield. The same King issued several denominations of billon coins, as *placks*, *half-placks*, *farthings*.

Hoardings of English coins of the ninth century have been found in Ireland, and were doubtless taken there by the Norsemen settled in the land. The actual coinage of these Norse Kings, however, does not begin till the end of the tenth century. It copies almost invariably a peculiar type of the coinage of Aethelred II. (978-1016), having on one side a bust uncrowned, and on the other a long voided cross. After that we have no Irish coinage until subsequent to the conquest of a portion of the country by Henry II. Henry made

his son John governor of the island, and John struck in his own name pennies, half-pennies, and farthings, having on the obverse a head (supposed to be that of John the Baptist) and on the reverse a cross. During his own reign John coined pennies having the King's bust in a triangle on one side; on the other the sun and moon in a triangle. Henry III.'s Irish pennies are like his English long cross type, save that the King's head is again surrounded by a triangle. This distinction once more serves to separate, in point of type, Edward I.'s Irish from his English coins, the reverse types of the two being the same. John struck at Dublin and Limerick, Henry III. at Dublin, and Edward I. at Dublin, Cork, and Waterford. One or two Irish pennies of Henry V. or VI. have been spoken of, but there was no extensive coinage for Ireland between the reigns of Edward I. and Edward IV. The Irish coins of Edward IV. were very numerous, and consisted of double-groats, groats, half-groats, pennies, and (in billon) halfpennies and farthings. The types of these coins are varied; some are but slight divergences from the corresponding English coins; others have for reverse a sun in place of the usual cross; others again have a single crown on obverse, on the reverse a long cross; and another series has three crowns, with the English shield for reverse. The mints are Dublin, Cork, Drogheda, Limerick, Trim, Waterford, and Wexford. No gold coins were ever struck for Ireland.

Hen. VII. We have thought it best to dispose of the

Middle Age coinage of all Great Britain and Ireland before we come to speak of any currency struck in more modern days. We have thus carried our enquiries down to the accession of Henry VII. The division which has been thus made in our subject is not, indeed, an equal division in respect of time nor even of recorded historical events; but it is obviously the most suitable which could be found. It corresponds generally with the line of demarcation separating modern from mediaeval history, and with what we may call the installation of the Renaissance. The line is always more or less shadowy and indefinite, but nowhere is it less so than in England. The Wars of the Roses were the final act in the drama of mediaeval English history. When these ended in the Battle of Bosworth the new era definitely began.

We have seen¹ that this age of the Renaissance was for the whole of Europe, so far as the coins were concerned, notable chiefly as being the era of portraiture. Portraits begin on English coins with Henry VII. Up to his nineteenth year this King continued the older forms of silver currency, but in 1504 he made a complete change. He coined shillings in addition to the groats, half-groats, Shilling. pennies, etc., which had up to that time been current; and on all the larger pieces, in place of the conventional bust facing which had prevailed since the days of Edward I., he placed a profile

¹ Chapter IV., pp. 91-93.

Art. bust which had not been seen on coins since the days of Stephen.¹ The bust appears upon all coins of higher denomination than the penny. A new type was invented for the latter coin, the full-length figure of the monarch enthroned. The portrait of Henry VII. is a work of the highest art in its own kind. Nothing superior to it has appeared since, nor anything nearly equal to it except upon some of the coins of Henry VIII. and Edward VI. The artistic merit of these pieces is so considerable that on that account alone they are worthy of peculiar study. It has been well pointed out by archaeologists that one interest belonging to the study of Greek coins lies in the fact that they are tokens of the artistic work of many places of which no other such monuments remain. The same may almost be said of the coinage of England during the Renaissance. In the great artistic movement of those days, England seems at first sight to take no part. While Italy, France, and Germany had each its own schools of artists, and each its separate character of design, the conspicuous monuments made in England were the work of foreigners; they were the sculptures of Torrigiano or the paintings of Holbein. But as smaller monuments the contemporary coins are an evidence of native talent,

¹ It is worth noticing that Henry VII. was the first King subsequent to Henry III. who used a numeral upon his coins. Some of his shillings read HENRIC VII., others HENRIC SEPTIM. James IV. in the same way introduced (for the first time on Scottish coins) the word QUART. after his name.

for most of the engravers to the mint during these reigns bear genuinely English names.¹

Next to the evidence of art-culture which the coins afford, comes the evidence of greater wealth, of larger trade and manufacture, and of an increased demand for a medium of exchange. When Henry VII. ascended the throne, although the country had just been suffering from a bitter and prolonged civil war, the great mass of the community was far from having been impoverished thereby. It was during all this period steadily acquiring wealth, and the wealth of the country, as a whole, was upon the increase.² The careful reign of Henry VII. fostered this increase. It need not surprise us, therefore, to find an addition made to the coinage of the previous reigns.

Increase of
Wealth.



SOVEREIGN OF HENRY VII.

Henry VII. struck the principal gold coins which were current in former reigns; that is to say,

¹ Nicholas Flynte, John Sharpe, and — Demaire, are the names of the engravers during the reigns of Henry VII. and Henry VIII., as given by Ruding; the third may, likely enough, be a French name.

² Rogers' *Hist. of Prices*, vol. iv., Intr., r. 22.

Sovereign. the ryal, or rose-noble (now worth ten shillings), the angel, and the angelet. In addition to these pieces he struck for the first time the pound sovereign, or double ryal, worth twenty shillings, a large gold coin representing the King enthroned, and on the reverse a double rose charged with the English shield. The piece measured more than one-and-a-half inches, and weighed two hundred and forty grains; that is to say, twice as much as the present sovereign. It was without question the finest gold coin then current in Europe. It does not appear, however, to have been issued in large quantities.

Hen. VIII. As we follow the history of coinage under the Tudors, we see the currency gradually increasing in quantity and in the variety of its denominations. Henry VIII. did not indeed make any decided step in this direction, and in one respect, presently to be noticed, he made a conspicuous retrogression. Nevertheless he struck some two-sovereign pieces, and he largely increased the number of sovereigns. At first this coin followed the type instituted by Henry VII., but later on a second type was introduced, having the King seated on a throne upon one side, and on the other the English shield supported by a lion and a griffin. Henry coined half-sovereigns of the same type. He coined crowns or quarter-sovereigns and half-crowns in gold, having on one side the English shield, and on the other the Tudor rose. He likewise struck rose-nobles or ryals, angels, and angelets of the types formerly in use. The

Crown.

older nobles had given place to the ryals which, at first meant to be current for six-and-eightpence like their predecessors, had at once risen to be worth ten shillings. Henry VIII. now issued a new series of nobles at the lesser value. They were called George nobles, from having on the obverse the figure of St. George on horseback slaying the dragon. In silver Henry struck pieces of the same denomination as those of his father—namely, shillings, groats, half-groats, pennies, halfpennies, and farthings. The earlier groats showed a profile bust like the groats of Henry VII., but in 1543 for this was substituted a bust facing or turned three-quarters towards the spectator, and the shillings of Henry VIII., which were first coined at this date, were of the same pattern.

It has been noticed how in the continental coinage heraldic devices begin during the fourteenth century to take the place of the simpler crosses which generally decorate the mediaeval coins. Owing to the stereotyped character of the English coinage between Edward I. and Henry VII., the same change could not be so early discovered here. But it is very noticeable in the currency of the Tudor dynasty. From the time of Henry VII. the English shield (quartering France) is rarely absent from the coins. It is laid over the cross on the reverse, which in many cases it almost completely hides from view. A great number of the heraldic devices, with which we are so familiar in the chapel and tomb of Henry VII. in Westminster Abbey, are introduced upon his

coins or those of his immediate successors, as the lion, the griffin, the double rose, the portcullis. The last device was derived from the Beaufort family (the legitimated children of John of Gaunt and Catherine Swynford), from which Henry could claim descent.

Wolsey's
Groat.

One coin of Henry VIII. has a special historical interest. It is the groat struck at York by Cardinal Wolsey when Archbishop of York. On the piece he placed his cardinal's hat; and as this act was accounted illegal, and even treasonous, it was included in the bill of indictment against him:

That out of mere ambition you have caused
Your holy hat to be stamped on the king's coin.¹

In the actual articles of indictment he is only blamed for, "of his pompous and presumptuous mind," stamping the hat upon the *groats* struck at York, as if the offence lay especially in the issuing of such large pieces with the insignia of his office. Several prelates before his time had placed their own initials and some symbol of their dignity upon the pennies of York, Durham, etc. It may, however, have been considered part of the offence for which, as a whole, Wolsey was held to have incurred the penalties of a *praemunire*; namely, the endeavour to exalt unduly the position of his holy office, and to spread an impression among the people that his legateship gave him a power independent of the power of the Crown. The groats and half-groats struck by Cardinal Wolsey

¹ *Henry VIII.*, iii. 2.

have, beneath the shield on the reverse, a cardinal's hat, and on either side of the shield the letters T. W.

Edward VI. still further increased the gold Edw. VI. coinage, especially the coinage of sovereigns. He struck triple, double, and single sovereigns. The latter at first followed the type of Henry VII., and the earlier sovereigns of Henry VIII., and Edward's double sovereign was of that type also. Other pieces showed the king with shorter robes, and of this type was the triple sovereign. Later Edward adopted a new design—the half-length figure of the King to right, crowned, and holding the sword and orb. On the reverse was a shield. The half-sovereign was either of this type, or else presented only the bust of the King, with head either crowned or bare, and the reverse as before. In silver Edward VI. coined for the first time crowns, half-crowns, and sixpences. The first two denomina- Sixpence tions represented the King riding to right, and the English shield on the reverse. The shillings and sixpences contained a bust crowned, either in profile to right or facing. The coins of this reign are Date. the first of English coins which bear a date.

Mary coined sovereigns of the earliest (Hen. VII.'s) Mary. type, the ryal of the old type—only that the figure in the ship is the Queen—as well as angels and angelets. Her groats, half-groats, and pennies were all of the same type, having a crowned bust of the Queen to right upon the obverse, and on the reverse a shield. After her marriage with Philip, Mary struck half-crowns and shillings.

The former have the bust of the King and Queen upon the two sides of the piece, while the latter have the two together, facing one another, "amorous, fond, and billing," on the obverse, and on the reverse a shield.

Elizabeth.

The number of coin denominations reaches its maximum in the reign of Elizabeth, from whose mints were issued no less than twenty distinct kinds of coin; that is to say, in gold, the sovereign, ryal, half-sovereign, quarter-sovereign, half-quarter-sovereign, angel, half-angel, quarter-angel; in silver, the crown, half-crown, shilling, sixpence, groat, threepenny, half-groat (or two-penny), three-halfpenny-piece, penny, three-farthings, half-penny, farthing. Fortunately the varieties of type were much less numerous. It is enough to say that, of the first issue, the sovereign, the ryal, and the angel did not materially differ from the corresponding coins of Mary, and that the sovereign of the second issue, with all its divisions, showed simply a crowned bust to left, with hair flowing behind; on the other side, the shield, as before. The silver crown and half-crown had a crowned profile bust to the left holding a sceptre; and all the other denominations of silver coins had a crowned profile bust without the sceptre. The sixpence and its divisions were distinguished by a rose placed at the back of the head.

Three-
penny,
Two-
penny,
Three-
half-pence,
etc.

Another series of coins struck by Elizabeth deserves particular mention. By virtue of a commission, dated January 11th, 1600, or 1601, a coinage was ordered, "unknown to the English

mint, either before or since her time, for it was by law exportable, and intended for the use of the East India Company." This is, in fact, the first appearance of a colonial coinage for England. This coinage consisted of silver pieces, the size of the Spanish coins of eight, four, and two ryals. The coins had on one side the royal arms, on the other a portcullis. The reasons which induced the Queen to take this step were sound and statesmanlike. The East India Company had applied for leave to export Spanish dollars, representing that these coins alone were familiarly known, and therefore readily accepted, in the East. The Queen determined to issue a currency which was genuinely English, in order "that her name and effigies might be hereafter respected by the Asiatics, and she be known as great a Prince as the King of Spain."

Coinage
for East
India
Company.

All the facts which we have here summarised witness to the growth of fiscality throughout the prosperous reigns of the Tudor dynasty. With this growth a number of economic questions came to the front, which long continued to tax the sagacity of statesmen. We are too ready to congratulate ourselves on our supposed superiority over our ancestors in the art of statecraft. But there can be no question that in one respect we stand in a position of immense advantage over them—in respect, that is, to our mastery of the most important laws of economy and finance. There can be nothing more melancholy than to follow the enactments of successive reigns con-

cerning the supply of bullion, and to note the radically false conception which the laws show touching the nature of wealth. Thus, in the reign of Henry VII., an Act was passed forbidding "any person dwelling in the realm to pay to any alien for merchandise, or other thing, any piece of gold coined in *that or any other realm,*" etc. And the same kind of enactments follow one another with wearisome iteration. A still more important example of the ignorance of economic laws was shown in the liberties which the Government took with the purity and weight of the currency.

In earlier times, though men were no better instructed in economic science, a certain healthy moral instinct had long kept the rulers from degrading the title of the coins they issued. Men's instinct had taught them that such an act was fraudulent and unworthy, though in many cases, especially among the petty Princes (and still more especially the Prince Prelates) of Germany, this instinct had not been very efficient. Philip the Fair, of France, was one of the first who persistently debased his coinage, and Dante's scornful description of Philip—

Lì si vedrà lo duol che sopra Senna
Induce, falseggiando la moneta,
Quei che morrà di colpo di cotenna¹—

shows in what way his acts were regarded by healthy minds. But at the age at which we are

¹ *Paradiso*, xix. 118.

now arrived, no traditional laws of morality could hold their force unquestioned. Why, it was said, seeing that a pound or a shilling gains its value through the royal sanction, may not the same sanction and the same value be given to a piece of much lower metallic value, and thus the Government be the gainer, and yet the subjects not the losers? From the time of Philip the Fair the degradation of the coinage had proceeded rapidly in France and in most other European countries, including Scotland; but the purity of the English money had been hitherto unassailed. Henry VIII. was the first of English monarchs who debased the sterling fineness of the coin. Some of his shillings and groats contained only one-third silver to two-thirds copper. Some of his gold coins consisted of about five-sixths of gold to one-sixth of silver. This evil continued through the two successive reigns, and was finally reformed by Elizabeth. Even Elizabeth, however, did not do her work completely, as, instead of withdrawing the base coins completely from circulation, she passed them over St. George's Channel for the use of her subjects in Ireland. It is a curious fact, and one which reflects credit upon the Queen and her advisers, that her reform of the coinage, wise, and indeed necessary as it was for the welfare of her subjects, was by no means forced upon the Queen by public opinion, but was on many sides viewed with great dislike. The opposite state of things would, of course, confer some slight and temporary advantages upon the producer, while the chief

sufferers would be, as Elizabeth's proclamation said, "All poor people that lived of their hand-labour, as well artificers in cities and towns as labourers in husbandry, or men that took dayetall wages, either by land, by sea, or by fresh waters, and all mean gentlemen that lived upon pensions and stipends, foldes and wages."

Another reason why the old state of things was favoured by some was that it would tend to bring into circulation a large number of pieces of low denomination. So soon as men had come to an understanding that a penny and a halfpenny were each not worth more than half their nominal values, a large number of what really were half-pennies and farthings would be found to be in circulation, and the making of small purchases would be greatly facilitated. There is no doubt that these facilities were very much desired by the poor, and the want of a lower currency was much felt. Up to this time no regular copper coinage had been introduced. The place of it was first supplied by the issue of tokens by private persons. These appear first to have been of lead. Erasmus speaks of the *plumbei Angliae*, apparently referring to leaden tokens in the reign of Henry VII. In the reign of Elizabeth there was a very extensive issue of private tokens in lead, tin, latten, and leather. At length proposals were made for the issue of a copper coinage—proposals not then carried into effect, though some patterns were struck.

Tokens.

To bring this subject to a close, we may add

that in James I.'s reign the use of copper tokens was fully recognised, but that the monopoly of striking them was conferred upon certain individuals, at first upon Lord Harrington. The same custom was continued in the reign of Charles I., but in the abolition of privilege, which resulted from the Civil War, the monopoly lapsed, and the result was an issue of copper tokens by the principal tradesmen of almost all the towns of England. Thus arose the *seventeenth century tokens*, which are much prized by their collectors, and which are often of considerable value to the local historian. In 1672 an authorized copper coinage of halfpennies and farthings was undertaken, and in consequence the issue of copper tokens, though it did not immediately cease, fell gradually into disuse. It revived again for a short time at the end of the last century, and the early years of this; that is to say, from 1787 to 1795, and again from 1811 to 1815, owing to a scarcity in the copper money of the realm.

In order to dismiss the history of copper coinage, we have advanced far beyond the period with which we had been dealing. Before we again return to it—that is, to the English coinage immediately subsequent to the death of Elizabeth—we will take one glance at the Scottish coinage during the intervening period between the accession of James IV., already spoken of, and that of James I.

The coinage of Scotland during this period Scotland. follows the same general lines as the English

currency, but in many respects it likewise shows clear traces of French influence. Such influence is most apparent in matters belonging to art. We have said that the first coins with portraits are some groats of James IV. These pieces are noticeable from the fact that the type of bust does not resemble the type on any English contemporary coin. It is a three-quarter face to left. James V. at first struck groats nearly resembling those of Henry VII.'s later coinage; that is to say, having a crowned bust to right. The most artistically beautiful among the Scottish coins belong to this reign and the early part of the succeeding one—the reign of Mary. Few coins are more beautiful than the bonnet-piece of James V., a gold coin in weight $88\frac{1}{2}$ grains, midway between the English half-sovereign and the angel, and having on the obverse the bust of the King wearing a square cap or bonnet, or than the ryal of the early years of Mary's reign. The same influences which were at work bringing about an immense extension of the English coinage, are traceable, though in a less degree, between the reigns of James IV. and James VI. A large number of gold coins was issued during these reigns. James IV. struck *St. Andrews*, *riders*, and *unicorns*, with the divisions of these pieces; James V., *écus* and *bonnet-pieces*; Mary, *écus* or crowns, *twenty-shilling pieces*, *lions*, *ryals*, and *ducats*, with the divisions of most of these coins. The same Queen struck silver ryal, a much larger coin than had been issued by any of her predecessors. Her other silver coins were the

two-third and third ryal, and the testoon and half-testoon.

We have said that the Scottish monarchs went far beyond the English both in degrading the title and in debasing the material of their money. No professedly *billon* coins were ever issued from the English mint: the Scottish had long established a currency in this base metal standing between silver and copper.¹ Moreover, the Scottish penny had long fallen in value far below that of the English penny. The Kings of Scotland from time to time made efforts to establish a currency which should be exchangeable with that of the neighbouring country, and we find orders taken for the making of certain special denominations of money designed to serve this end. In 1483, for example, it was ordered that a gold coin should be struck of the fineness and weight of the English rose noble, and groats of the value of the English groat. The first of these designs was never carried into effect, but in 1489 a groat of the desired standard was coined. We find that it was equal to fourteenpence Scottish, so that the Scottish penny was between a quarter and a third of the English coin. When James VI. came to the English throne, however, the Scottish penny had sunk to be one-twelfth of the English.

James I. of England and VI. of Scotland had to James I.

¹ Among these billon pieces the *bawbee* (corrupted from *bas pièce*, in Scottish French) was the longest remembered, and is the most worthy of notice. The name is expressive of the influences under which the base money was introduced into Scotland.

maintain a double currency. In fact, the coinages of the two realms were not brought into entire uniformity until the reign of Anne, when the complete union was effected. For Scotland James struck in gold the *twenty-pound piece*, the ducat, the lion noble, the thistle noble, and the rider, before his accession to the English throne; and in silver, the *sword dollar*, the *thistle dollar*, and the *noble*, with the divisional parts of most of these coins, as well as pieces of two, four, five, eight, ten, sixteen, twenty, thirty, and forty shillings, and several billon pieces. After his accession his peculiarly Scottish coins were the sword and sceptre piece, and the thistle mark.

The English coins of James were the sovereign, and the double or rose ryal. These were during his reign generally current for thirty shillings. The type of the ryal was that of the sovereigns of Henry VII. The half of this was the spur ryal, which at first followed the old type of the rose nobles or ryals, but afterwards showed on one side a lion supporting the English shield (quartering Scotland and France), on the reverse the spur, or sun as on the rose nobles. The angel showed some variety of type from that of the previous reign. But the most distinctive coin of James I., and that which superseded all the others, was the *unite* or *broad*, a piece of twenty shillings, and designed to pass current in both countries. The type was at first a half figure holding sword and orb; subsequently a bust, either crowned or laureate. This last type prevailed, and earned for the piece the

Unite.

name *laurel*, while the motto FACIAM EOS IN GENTEM UNAM was the origin of its older name. The laurel wreath had never appeared upon the head of any previous English monarch upon his coins. As it is commonly worn by the Roman Emperors on their money, it was most likely adopted by James with the object of proclaiming his imperial rank as King of England, Scotland, and Ireland; for we find that he also, for the first time, adopted the title Emperor upon some of his medals.

It is noticeable that in the reign of James I. we for the first time have the values of the coins given upon them. His thirty, fifteen, ten, and five-shilling pieces in gold, and his shillings, six-pences, half-groats and pennies, are marked with numerals expressing their value. The custom was continued in the reign of Charles I., and during the Commonwealth.

The variety of coin denominations reaches, as has been said, its maximum under Elizabeth. From the time of the introduction of the unite this number begins rapidly to decline; so that in the reign of Charles I. it almost reached the same simplicity which it now has. A comparison might, in truth, be instituted between the respective coinages of the Tudor and the Stuart dynasties and their respective literatures. The greatest artistic excellence belongs to the coinage (as to the literature) of the first era, while that of the second era stands next to it, and superior to anything which was subsequently produced. In the second class we

Value.

Number of Denominations.

find a marked tendency toward simplicity and adaptability to the ordinary needs of life.

Thus the silver coinage of the Stuarts is practically the same as that which now exists, with the exception that James I. did not strike the smaller pieces, and that Charles I., in the midst of the Civil War, struck some large coins which were never afterwards reproduced. The crowns and half-crowns of James I. represent the King on horseback, the shillings the crowned bust of the King, the ordinary shield (now without any appearance of a cross) forming the reverse in each case.

Charles I.

Charles I.'s usual gold coinage is the unite, half-unite, and crown. These pieces have the King's bust on the obverse, and on the reverse a shield. His silver coins of higher denominations were like those of his father, and the lower denominations follow the type of the shilling. After the outbreak of the Civil War, Charles adopted for the reverse of his coins, both in gold and silver, what is called the Declaration type, namely the legend RELIG. PROT. LEG. ANG. LIBER. PARL. (The Protestant Religion, the Laws of England, and the Liberty of Parliament), written in two lines across the field of the reverse. Of this type he struck some pieces of three pounds, as well as large silver coins worth twenty and ten shillings, made out of the plate which was brought by his adherents to the royal mints.

Charles I. established mints at a great number of towns during the Civil War. Altogether we

were Thomas Rawlins and Nicholas Briot. The latter had first been engaged at the French mint, and while there had invented several improved methods of striking coins; but finding no appreciation of his talents, he came to England, and was at once employed by Charles. Rawlins was for a long time engraver at the Tower mint, and on the outbreak of the Civil War he removed with the mint to Oxford. While there he executed the famous *Oxford Crown*. The coin, though it does not differ materially from the crowns of Charles I. of the Declaration type, shows, behind the figure of the King on horseback, a view of the city of Oxford, in which the fortifications and some of the chief buildings, notably Magdalen tower, are very clearly portrayed.

Common-
wealth.

The Commonwealth employed as their engraver the famous medallist, Thomas Simon, whose medallic portraits, made in conjunction with his brother Abraham, are among the finest art products of that age. The extreme simplicity of the types upon the coins did not, however, give Simon room for any great display of artistic talent. The coin bore upon one side a shield charged with St. George's cross (England), on the other side two shields, one with St. George's cross, and the other with the harp of Ireland. Presumably the figure of the saint would have been considered more idolatrous than his emblem presented in the baldest form. It is remarkable, too, that during the Commonwealth was adopted for the

first, and also unhappily for the last time, the sensible device of having the legends both on obverse and reverse in English instead of Latin. On the obverse was simply THE COMMONWEALTH OF ENGLAND, on the reverse the motto GOD WITH US. In 1656, when Cromwell had been raised to the rank of Lord Protector of the Commonwealth, he entrusted to Thomas Simon the task of preparing dies for a new coinage, which had on one side the profile bust of the Protector, on the other the shield of England, Scotland, and Ireland, and as an escutcheon of pretence that of Cromwell himself. The motto was appropriate and expressive, PAX QUÆRITUR BELLO; and the whole piece was one of the finest of Thomas Simon's works.

All this time the coinage had been wonderfully simplifying its character. We have seen that James VI. definitely settled the silver currency upon the basis (so far as the number of pieces is concerned) which it has since rested upon. In the time of the Commonwealth there were, in reality, only two regularly current gold coins—the broad and half-broad. During the reign of Charles II. further changes were made, which had the effect of definitely settling the denominations of coins down to the middle of the reign of George III. So that all that is really worth record in the history of English money comes to an end in the course of the reign of Charles II.

After his restoration Charles II. continued for some little time to employ the engraver of the Commonwealth, Thomas Simon, and this artist

executed the sovereigns and shillings of the first years of the reign, which are the most beautiful of Charles II.'s coins, in truth the last really beautiful coins which were issued from English mints. Simon was superseded by the engraver Blondeau, who had produced some patterns for Commonwealth coins, and Blondeau was succeeded by the Roettiers. Simon, in order to obtain his recall, executed his famous *petition crown*, in which the King is besought to compare the likeness upon that piece with any that was issued by the Dutch engraver to the Royal Mint. And in truth there can be no question that this pattern is in delicacy of treatment superior to any other English coin.

Guinea.

In the same year the twenty-shilling pieces began to be called guineas, from the fact that most of them were made from gold brought from Guinea by the African Company. The pieces actually made of this gold were stamped with an elephant below the bust, but the name which properly belonged to them was transferred to all, and by accident the value of the piece increased from twenty to twenty-one shillings. The earliest coinage of Charles had consisted of twenty and ten-shilling pieces and crowns: but in 1662 this issue was exchanged for a coinage of pieces made by the mill, which were five guineas, two guineas, guineas, and half-guineas. This currency became henceforth stereotyped, so that from the reign of Charles II. to that of George II. inclusive, the English coinage consisted of five guineas, two

guineas, guineas, half-guineas, in gold ; of crowns, half-crowns, shillings, sixpences, groats, three-pennies, two-pennies, and pennies, in silver. The last four denominations were only struck for issue as Maundy money. The copper coinage during these reigns was much less fixed. It generally consisted of halfpennies or farthings. Five-guinea and two-guinea pieces were not coined after the reign of George II., and in the course of the reign of George III. a twenty-shilling piece was once more introduced, bearing the older name of sovereign.

The only coins struck subsequent to the reign of Charles II. which are of interest to the historian are those issued in Ireland, by the authority of James II., after his abdication of the English crown.

*Irish Coins
of James II.*

The King began first, in order to meet his pressing necessities, to strike bronze (or gun-metal) sixpences. Subsequently he issued shillings, half-crowns, and crowns in the same metal. The value of these pieces was of course a purely fictitious one, the real worth of a crown being no more than a penny, and the loss to the nation when the money was recalled by William III., and paid for at its actual value, was very great. It was found that the total issue amounted nominally to £22,489, of which the actual value was £642.

The silver coins of Anne, made from the treasure seized in the Vigo Bay expedition, and in consequence marked with the word *VIGO* ; the coinage of George I., marked with the letters

s s c, because struck from silver furnished by the South Sea Company ; and that of George II., with the word LIMA, because made from treasure which had come from thence, are worthy of a passing notice.

The copper coinage of Queen Anne consisted of a limited number of farthings struck in the year 1714. Several patterns for farthings were likewise made in this and the preceding year. They would scarcely claim mention here, but that through some unexplained cause a ridiculous notion has gained currency that these pieces are of immense value. Their real value is from 10s. to £1, if in fine condition.





CHAPTER VI.

EARLY ORIENTAL COINS.



THE art of coinage was, as has been already pointed out, of Oriental invention. The first coins seem to have been issued at about the same time, the seventh century B.C., by the Lydians in the west of Asia, and by the Chinese in the extreme east. When the Persians under Cyrus conquered Lydia ^{Persia.} they adopted the useful art of coinage; but chose a simpler system than the Lydian. If we exclude money issued by Greek cities under Persian rule and by Persian satraps on the occasion of some military expedition, there were in use in the length and breadth of the Persian Empire but two classes of coins—the gold *darics* and the silver *sigli*, or *shekels*. ^{Darics and Sigli.} The daric bore on one side as type a figure of the King shooting with the bow; on the other side a mere punch-mark or incuse: it weighed rather more than a sovereign, and was of almost pure gold. The shekel was of nearly the same size, and stamped with the same type; but was

only two-thirds as heavy; in fact, almost exactly of the weight of a shilling. Twenty shekels were equivalent to a daric. It is interesting to find the equivalents of pounds and shillings circulating throughout Western Asia at a period so early.

Until the Persian Empire fell, darics and sigli were probably the only officially recognised currency between the Hellespont in Asia Minor and the borders of China. Other coins were, however, struck in some places. The Greek cities of the coast were not allowed to issue gold coin; but the Persian rulers did not interfere with their autonomous issues of silver and copper money, which bore types appropriate to the striking cities. And some of the satraps of the Persian King were allowed, more especially on the occasion of military expeditions, to issue silver coins, the types of which curiously combine Persian and Greek mythology, one of them, for instance, presenting on one side the figure of Hormuzd, on the other that of Zeus. And there were certain states which enjoyed, among other privileges of partial autonomy, the right of striking coins. Such was the Lycian league, consisting of most of the cities of Lycia, all of which impressed on one side of their money a circular three-membered symbol, which most writers consider to be of solar meaning. And such were some of the kingdoms of Cyprus which were saved by the intervening sea from complete subserviency to the Persian Empire, and the coins of which bear Greek legends written in

the curious Cyprian character, of cuneiform appearance.

It is a curious fact that coinage in Phoenicia, Phoenicia one of the most commercial of ancient countries, should have been late in origin, and apparently not very plentiful. There are, in fact, no coins of earlier period than the third century which we can with certainty attribute to the great cities of Tyre and Sidon. Some modern writers, however, consider that many of the coins generally classed under Persia—notably those bearing the types of a chariot, a galley, and an owl respectively—were issued by those cities in the fifth and fourth centuries B.C. But it is certain, in any case, that the Phoenicians were far behind the Greeks in the art of moneying.

With the invasion of Persia by Alexander the Successors of Alexander. Great came a great change; and all the ancient landmarks of Asiatic government and order were swept away. During the life of Alexander the Great the coins bearing his name and his types circulated throughout Asia; and after his death the same range of currency was attained by the money of the early Seleucid Kings of Syria—Seleucus I., Antiochus I., and Antiochus II., who virtually succeeded to the dominions of the Persian Kings, and tried in many respects to carry on their policy. Of these monarchs we possess a splendid series of coins, beginning with Seleucus, the general of Alexander, and going down to Tigranes. Their features are thoroughly familiar to us, and by the help of their portraits we can

judge more satisfactorily of their appearance in history as recorded by Justin and Appian. At first their rule extended from the Aegean Sea to the great desert of Gobi; and their coins were issued by numberless mints throughout Asia, and copied by the barbarous tribes of the Chinese and Indian frontiers.

Beginning
of Oriental
Coinage.

In the reign of Antiochus II., however, the Syro-Greek kingdom began to fall to pieces; and with its decay Oriental coinage, as opposed to Greek, may properly be said to commence. About B.C. 250 the Greek satraps of the wealthy provinces of Bactria and India became independent; and the Parthian Arsaces raised the standard of a successful revolt on the southern shores of the Caspian. In the next century smaller kingdoms arose in Arabia, Armenia, and Mesopotamia; and the Jewish people wrested their independence from the hands of Antiochus Epiphanes. In the far East rude tribes of Sacae and Huns from the borders of China swept down on the eastern provinces of the Persian Empire, and founded dynasties which seem, however, to have soon passed away.

I shall not speak of Asia Minor on the west, for that district was dominated by Greek and Roman influences; nor of China on the east; each of these regions is treated of elsewhere in this volume. The vast space between these two extremes may be divided into three regions: (1) Armenia, Syria, and the country to the west of the Tigris and the Caspian; (2) Central Asia;

(3) India and Afghanistan. We will speak in turn of the coins of the two former regions, during the whole period which elapsed between the break-up of the Syro-Greek kingdom and the conquering spread of Islam—that is to say, from the third century before, until the eighth century after, the Christian era. India is reserved for a separate chapter.

The earliest coins which we possess which belong distinctively to Central Asia are those recently discovered in Bokhara, bearing the name of Andragoras, who must have been a revolted Greek satrap of Parthia or Media. Central Asia.

In the course of the second century the Parthians, under their great King Mithradates, occupied all Mid-Asia, or rather gained a sort of lordship over it, and defended it for centuries from the attacks of the Greeks and Romans on the one side, and of the Huns on the other. Parthians. The Parthian silver coins consist of two distinct classes—regal and civic. The regal coins are of silver, of the weight of an Attic drachm, 60-65 grains, and bear during the whole of Parthian history uniform types—the head of the ruling King on one side, and on the other the first King, Arsaces, seated, holding a bow. The civic coins were issued by the semi-Greek cities of Persia and Mesopotamia. They are four times as heavy, and present a greater variety of type. Subsidiary copper pieces accompany each series.

As the Parthians were constantly at war with the Syro-Greek kingdom so long as it lasted, it

may at first surprise us to find that the legends of the Parthian coins, except in the case of a few of the latest, are in Greek. The date of them is indicated by the increasing complexity of these legends as time goes on. All the successors of the first Arsaces keep his name as their dynastic title, just as all the Kings of Egypt are styled Ptolemy, and the Roman Emperors Augustus; but they add to this dynastic name a constantly increasing number of epithets. In fact, the number of these epithets which are to be found on a coin is usually the readiest means of assigning its date. The earliest pieces bear only the legend *Ἀρσάκου* or *βασιλέως Ἀρσάκου*; but already the second King Tiridates assumes the title of Great King, *βασιλεὺς μέγας*; his successors add a variety of epithets, *θεοπατῶς*, *ἐπιφάνης*, *εὐεργέτης*, and the like, until, under Orodes the Great, we reach the formula *βασιλέως μεγάλου Ἀρσάκου εὐεργέτου δικαίου ἐπιφάνους φιλέλληνος*, which remains usual until the end of the dynasty. The last-mentioned title, Philhellen, is interesting, and records the fact that, at all events after the fall of the Syro-Greek kingdom, the Parthian Kings were anxious to secure to themselves the goodwill of the semi-Greek population which dwelt in many of the large towns under their rule.

The title of "Great King" was not in the style of the Parthian monarchs a mere parade or an unmeaning phrase. It signified that he was master of a number of under-kings or satraps, who ruled under his authority the various districts

of Central Asia, and in comparison with whom he might well be called great. Some of the rulers adopt the alternative title, "King of Kings," which has much the same meaning. The coins supply us with full and trustworthy information as to the dress and armour of those Parthian horsemen who more than once spread the terror of their name as far as Rome.

The great cities of Mesopotamia, such as Charax and Seleucia on the Tigris, in all probability issued the large coins already mentioned. The type of these is more varied. Before



AN EARLY PARTHIAN KING.

the time of Orodes it is like that of the regal money; but after that time it usually represents the Parthian King feated, receiving a wreath either from the goddess Nike (Victory), or from Pallas, or more often from a City personified in a female deity who holds a cornucopiae. The head of a personified City appears on the copper pieces which go with the civic coins. Both silver and copper bear a date, the year in which the coin was struck according to the Seleucid era, which begins in B.C. 312; sometimes even the month of that year. We thus gain most valuable means of

checking the dates of the events of Parthian history, at all events of the accession and deposition of the Kings. Once in the series we have a portrait of a woman, Mufa, an Italian girl presented by Augustus to Phraates IV., who made so good a use of her talents that she persuaded the King to declare her son Phraataces his heir, and reigned in conjunction with that son until he lost his life in a revolt. She wears a jewelled head-dress, and is clad in Oriental splendour.

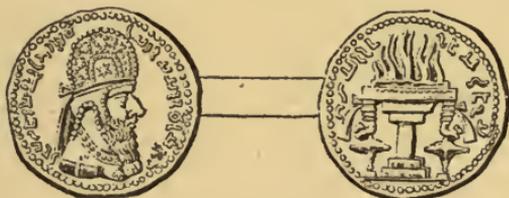
The district of Persia proper seems to have enjoyed partial independence in Parthian times; and we may feel justified in assigning to this district a long series of small silver coins which are usually called sub-Parthian; bearing on one side the head of a king, on the other usually a fire-altar, and inscriptions in Pehlvi characters, which have as yet been very imperfectly read.

Sassanian
Dynasty.

About A.D. 220 the princes of Persia revolted against their Parthian masters, and succeeded in wresting from them the supremacy of Asia. A great Persian dynasty then arose, beginning with Artaxerxes or Ardeshir the Sassanian, and ruled the East until the rise of Mohammadanism. The coins of the Sassanian Kings present a great contrast to those of the Parthians. Their execution is far neater and more masterly, and they show in all respects a reaction of the more manly tribes of Southern Asia alike against the debased Hellenism which had invaded the cities of Western Persia, and against the barbarous Parthian hordes, who seem to have passed out of history with their

overthrow, leaving scarcely a trace on the art, the religion, or the customs of Asia.

The great bulk of the Sassanian issues is in silver, and consists of flat, well-wrought pieces, of the weight of an Attic drachm, 67 grains. There are also gold coins weighing 110-115 grains, rather heavier than the contemporary solidi of Rome, and a few copper pieces. Gold and silver coins are of similar legends and devices, and throughout the whole of Persian rule preserve an almost unchanged character. On the obverse is universally the head of the King. The various monarchs have different styles of crown and coiffure, sometimes of a very extravagant character, the hair being rolled into huge balls and



ARTAXERXES I.

tufts. On his earliest coins, Artaxerxes' head is closely copied from that of Mithradates I., the greatest of the Parthian monarchs, whom the Persian King seems thus to claim as prototype and model. Around the King's head on all the Persian coins is his name and his titles in Pehlvi letters. Artaxerxes is termed the worshipper of Ormazd, the divine King of Kings of Iran. Later monarchs vary the formula; on the money of some of the latest, the mint where the coin was

issued and the year of the reign are written in Pehlvi characters in the field of the reverse. The reverse type of all Sassanian coins is the same, the fire-altar, the symbol of the worship of Ormazd, usually guarded by soldiers, or approached by the King in humble adoration.

Western
Asia.

Armenia.

Between Armenia on the north and Arabia on the south, coins were issued during Parthian times by a number of small states which maintained a precarious autonomy against the Romans on the one hand, and the Parthians on the other. Most of them disappear before the revived force of the empire of the Sassanians. Armenia was, until the time of the Parthian Mithradates (B.C. 160), the seat of several small dynasties. We hear of Arsames, a king of Arsamosata, who received the Syrian prince Antiochus Hierax when he fled from his brother Seleucus; and of one Xerxes, who ruled in the same district, and resisted the arms of Antiochus IV. Both of these rulers have left us coins of Greek fashion, but bearing on the obverse a head of the King in peaked Armenian tiara. But Mithradates, if we may trust the history of Moses of Khoren, overran Armenia, and set on the throne his brother Vagharshag or Valarsaces, who was the first of a line of Arsacid Kings of Armenia, under whom the country reached a higher pitch of prosperity than ever before or since. We possess coins of several of these Kings—of Tigranes, who became King of Syria and son-in-law of Mithradates of Pontus, and whose numerous silver coins struck at Antioch

bear as type the Genius or Fortune of that city seated on a rock; of Artaxias, who was crowned by Germanicus; and of Artavasdes, who was for a brief period maintained by the arms of Augustus. We also have a long series of coins in copper issued by the Kings of Osroene or Edeffa, whose dynastic names were Abgarus and Mannus, and who flourished during the first three centuries of the Christian era, living in independence by no means complete, for the one side of their coin is generally occupied by the effigy of a Roman emperor.

The Arab tribes to the east of Palestine at Nabatheæ. some periods enjoyed independence under kings of their own. We have a series of coins of the first century B.C. struck by the Nabathean Kings Malchus and Aretas, partly at Antioch, partly at Petra. The inscriptions and types of these coins are in earlier times Greek, and one of the Kings who bore the name Aretas calls himself Philhellen; but later the legends are written in local alphabet and dialect, and the portraits assume more of a native aspect. The short-lived Palmyrene Empire, founded by Odenathus and Zenobia, Palmyra. and put down by Aurelian, has also left numismatic traces of its existence in money quite identical in fabric, weight, and types, with the contemporary coins issued by Roman emperors at Alexandria. Some of the effigies of Zenobia on these coins may, however, be considered fairly good portraits for the time.

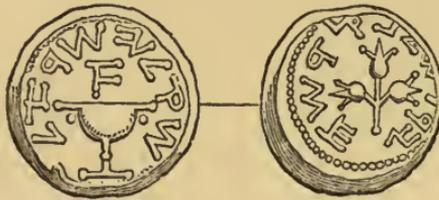
Further south, in Arabia, we find at least two Arabia

tribes who issued abundance of coin before the birth of Mohammad. The Himyarites circulated great quantities of imitations of the Athenian coins of various periods, and at a later age of the money of Augustus. Types of their own they seem not to have used, but they impressed on their imitations of civilized coins an inscription which identifies them as Himyarite. The people of Characene, a small district on the Persian Gulf, began in the second century B.C. a series of tetradrachms of Greek style, the general appearance and types of which are copied from the coins of contemporary Greek Kings of Syria and Bactria. The names of a series of these monarchs, Tiraeus, Attambelus, and so forth, together with their order of succession, are preserved to us by coins.

One of the most curious facts noticeable in the coins of Arabia is the frequency with which the heads of queens occupy the obverses, in conjunction with those of their husbands and sons. This peculiarity illustrates the historical fact, known from other sources, that before the days of Mohammad women not unfrequently ruled among the Arabian tribes, either alone or conjointly with some male relative. The abundance of the known money of this country, and the purity of the metal of which it is composed, show that while the Ptolemies ruled in Egypt, a brisk trade went on between Arabia and the countries to the east and west of it. But for art the Arabs seem never to have had a taste. They merely copied the coins which

passed current most freely in their neighbourhood.

Most people will take a greater interest in the ^{Judaea.} coins of Judaea, although none of these are very ancient, nor are they artistically pleasing. It would seem that, until the middle of the second century B.C., the Jews either weighed out gold and silver for the price of goods, or else used the money usually current in Syria, that of Persia, Phoenicia, Athens, and the Seleucidae. Simon the Maccabee



EARLY JEWISH SHEKEL.



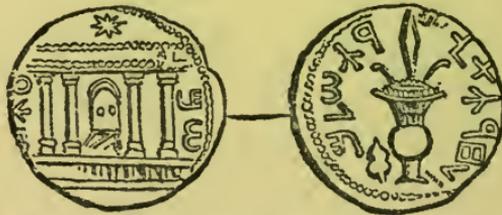
HALF SHEKEL.

was the first to issue the Jewish shekel as a coin, and we learn from the Book of Maccabees that the privilege of striking was expressly granted him by King Antiochus VII. of Syria. We possess shekels of years 1-5 of the deliverance of Zion; the types are a chalice and a triple flower.

The kings who succeeded Simon, down to Antigonus, confined themselves to the issue of copper money, with Hebrew legends and with types

calculated not to shock the susceptible feelings of their people, to whom the representation of a living thing was abominable—such types as a lily, a palm, a star, or an anchor. When the Herodian family came in, several violations of this rule appear. For example, we find objects of heathen cultus, such as a tripod and a caduceus; and money was even struck in Judaea bearing the effigies of men, sometimes of the reigning Roman Emperor, sometimes even of the Jewish King. Both the Agrippas are guilty of this violation of principle. The Roman Procurators of Judaea also issued coin with Greek legends, and carefully dated, so that we can distinguish the money issued during the eventful years of the rise of Christianity at Jerusalem.

Both of the desperate but unsuccessful revolts



SIMON BAR COCHAB.

of the Jews against their Roman masters—that in the reign of Vespasian under Simon and Eleazar, and that in the reign of Hadrian under Bar Cochab—have left a deep impression on the Jewish coin. In both periods the issue of shekels was resumed, and Roman denarii were freely restruck by the revolted leaders with their own types and

names. With these coins the Jewish money comes to an end. Jerusalem became a Roman colony under the name of Aelia Capitolina, and all money issued in that region bears witness in its types only to the defeat and slavery of the Hebrews.





CHAPTER VII.

MOHAMMADAN COINS.

IN the study of Greek coins we are unceasingly fascinated by their artistic excellence and the lights they throw on the mythology of the most interesting people of antiquity. Roman and mediaeval coins have their importance in showing us the source of our monetary system, and possess an added charm in the many historical associations they awake, though they seldom increase our actual knowledge of history. English coins we study because we are Englishmen, and like to know what our ancestors bartered their souls for. None of these attractions belong to Mohammadan coins. Art we should scarcely look for, since we all know that the Blessed Prophet declared that "every painter is in hell-fire," and strictly forbade the making of "statues" (by which he probably meant idols) and images of living things, on pain of the artist's being compelled to put a soul into his creation on the Day of Judgment. Hence

true believers have always been very cautious of representing human or even animal forms as an aid to decoration, and we shall find that it is only when barbarous Tartars or heretical Persians enter the field that figures of living things appear in the art of Mohammadan countries, and then very rarely upon their coins. The Eastern draughtsman, being debarred from the most fruitful of artistic materials, took refuge in the elaboration of those beautiful arabesque designs and geometrical patterns which are characteristic of so-called Arabian work, and even turned the natural grace of the Arabic writing to account as an element in decoration. Thus, on coins, as in mosques, we find the Kufic character used as a thing of beauty, and disposed to the best advantage, where a European artist would have relegated the letters to an obscure corner, and devoted all his space to the head or other figure that occupied the face of the coin. It was a matter of necessity rather than of choice, but it had a good effect in developing the graceful and elsewhere little cultivated art of calligraphy.

Nor must we expect any very interesting metrological data to be derived from Mohammadan coins. Their metrology, so far as it is known, is borrowed—like most other so-called Arabian things, whether philosophical, artistic, literary, or even religious—from the more cultivated nations the Muslims conquered, and the science still rests in deep obscurity, chiefly because no one, except my

indefatigable friend M. Sauvaire,¹ has had the patience to work so dreary a vein. Historical associations it were vain to call up at the sight of a Muslim coin, since the great majority of even well-educated and reading folk are profoundly ignorant of everything oriental, except what is Biblical or Japanese. There are, perhaps, three or four Mohammadan celebrities known by name to a fair proportion of ordinary readers. "The good Haroun Al-Raschid" owes his popularity to the *Arabian Nights* and Lord Tennyson, and coins bearing his name, together with that of the ill-fated Vizir Jaafar, of which there are many examples in the British Museum and every other large collection, might touch a chord of remembrance; while a piece issued by the famous Saladin, though in itself uninteresting, carries upon its surface a long train of Crusading associations for the historical student. The currency of the great fighting Sultans of Turkey, the Amuraths and Mahomets, the Selims and Solimans—to adopt the barbarous kakography of Western writers—has its memories, and so have the large gold pieces, with their uncompromising declaration of faith, issued by "Bobadil" and the other heroes of the dying kingdom of the Moors in Spain. To a very few the solitary piece of gold struck by the Mamlûk Queen, Shejer ed-Durr (which, being interpreted, means Tree of Pearls), may

Historical
Associa-
tions.

Coin of a
Mamlûk
Queen.

¹ *Matériaux pour servir à l'Histoire de la Numismatique et de la Métrologie Musalmanes*; and several profound papers in the *Journal of the Royal Asiatic Society*.

recall the fact that it was this apparently fascinating but not quite irreproachable lady who first made the pilgrimage to Mekka in the palanquin or mahmal, which has ever since been a notable feature of the departure of the pilgrims from Cairo, and which, being inextricably confused with the Holy Carpet, severely exercised the British conscience during the triumphal ceremonies that followed hard upon the battle of Tell-el-Kebîr.

The coin in question is a good example of the rich genealogical material to be extracted from an Arabic half-guinea. On one side, in the margin, is the profession of faith, testifying that "there is no God but God, and that Mohammad is His Prophet,"—a formula which appears on the majority of Mohammadan coins, often accompanied by other expressions of religious orthodoxy, and by sentences from the Korân. This very marginal inscription goes on to tell, in the words of the Korân, how God "sent Mohammad with the guidance and religion of truth, so that he might make it triumph over all other creeds." Encircled by these pious words, the field shows a long string of titles, all belonging to Queen Shejer ed-Durr, from which a sort of outline of her life may be constructed. In the first place she is called El-Musta'simîyeh, which means that she was once a slave-girl of the 'Abbâsy Khalif El-Musta'sim. Her next title is Es-Sâlihîyeh, showing that she was transferred from the Khalif's harîm to that of Es-Sâlih, the grand-nephew of Saladin, who had

Genealogical data.

succeeded to the kingship of Egypt after the deaths of his grand-uncle, grandfather (the scarcely less famous "Saphadin" El-'Adil), and father. Further, this coin gives her the title of "Queen of the Muslims," and "Mother of El-Manfûr Khalîl," a son who, we know from the historians, died in infancy. On the other side are the name and titles of the reigning 'Abbâsy Khalif El-Musta'îm, the Queen's former husband, round which is arranged a marginal inscription which records how, "in the name of God, the compassionate, the merciful," the coin was struck at Cairo in the year of the Hijreh 648, *i.e.*, A.D. 1250.

Crusade
of St.
Louis.

This year was a very critical one for the Mo-hammadan supremacy in Egypt. In 1249 Es-Sâlih had died, and the French army of the last Crusade, under St. Louis, was in occupation of Damietta, and already advancing upon the capital. In this position of affairs, the Slave-queen undertook the government. She concealed the death of her husband, and subdued the panic which the Frank invasion was exciting. Then the tide of fortune changed; the Bahry Mamlûks, under the command of Beybars of the lion-crest, won a complete victory over the French at Mansûrah; St. Louis and his army were made prisoners of war; and, on the death of the heir to the throne, Shejer ed-Durr was proclaimed Queen of Egypt. For two months and a half she reigned alone, and then, on the remonstrance of the Khalif, first of her three husbands, at the impropriety of a woman

exercising royal power, she associated the Emîr Eybek and another nominal colleague with her in the sovereignty. But from the first moment she took the reins of government into her hands till the day of her death, she was sovereign mistress of Egypt, let who would enjoy the name of Sultan. She made Eybek Sultan, and married him; but she retained the absolute authority she had held before, and when her colleague showed symptoms of independence, and seemed inclined to enlarge the circle of his affections, she had him murdered in his bath, under her own eyes. Three days afterwards "Tree of Pearls" herself was beaten to death with wooden bath-clogs by the slaves of a divorced wife of the murdered man.

The unique coin described above must have been issued during these two stirring months of female autocracy, of which it is the only numismatic evidence we possess, in corroboration of the statements of the historians, which it confirms in the most minute particulars, in every detail of the long string of titles attached to the Queen's name; and it derives a peculiar interest from having been struck at the very moment when St. Louis received his final discomfiture at the hands of the infidels, and by the very Queen whose treasury was enriched by a million gold bysants, which formed the ransom of the King of France.

In the wealth of information afforded by this coin we see the real value of Mohammedan numismatics. The coins of the Muslim East do not so much recall history as make it. The student is

Wealth of
Historical
Informa-
tion.

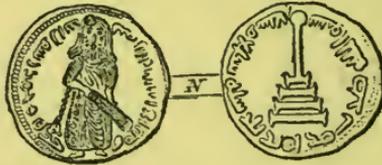
constantly meeting with a perfectly unknown King or even dynasty, which fills up a gap in the annals of the East. A Mohammadan coin generally gives not only the date and place of issue, and the name of the ruler who caused it to be struck, but frequently the names of his father and grandfather, his heir-apparent, his liege-lord, and other valuable genealogical data and aids to the due understanding of the inter-relations of different dynasties; while the religious formulæ employed will enable us to tell the sect to which the ruler who issued the coin belonged, at least so far as the broad distinctions of Islam are concerned. If the complete series of coins issued by every Muslim state were preserved, we should be able to tabulate with the utmost nicety the entire line of Kings and their principal vassals that have ruled in every part of the Mohammadan Empire since the eighth century, and to draw with tolerable accuracy the boundaries of their territories at every period. Minting was ever one of the most cherished rights of sovereignty: the privileges of "Khutbeh and Sikkeh," that is, of being prayed for in the Friday prayers in the Mosque and of inscribing his name upon the currency, were the first things the new King thought about on ascending the throne. We may be confident that the right was exercised at the earliest possible opportunity, and that a prince who occupied the kingly office for but a few weeks was sure to celebrate his royalty on a coin. Shejer ed-Durr is a case in point, for the coin above described must have been struck in her brief reign of two months.

It is this monetary vanity of Eastern princes that makes their coinage so valuable to the historian, and indeed compels him to regard numismatic evidence as the surest testimony he can obtain. Of course it may be urged that the facts thus derived from a study of coins are not worth having; they may be absolutely true, but they relate to persons and countries concerning which nobody feels any possible interest, and even of these they tell only such meagre items as dates and chief towns, the very things we are now carefully expunging from our school-books! It is easy to reply that, like every currency, that of the Mohammadan East really supplies important evidence concerning the economic state of the country by its quality and rate of exchange. But we join issue on the main question, and venture to assert that no scrap of positive historical fact is really useless, or may not at some time be turned to important ends. The Mohammadan coinage, more than any other, abounds in historical data, and when the as yet unwritten history of the East during the Middle Ages comes to be told, the author will find no surer check upon the native annalists than the coins.

Value of
Numis-
matic Evi-
dence.

If the history of the Mohammadan East were comprised in the annals of a few great dynasties, the value of the coins would not be so considerable, for we should only learn perhaps some fresh dates or confirmation of dates already known, and the mints would only be the capitals and large towns

of well-known provinces. But Mohammadan history is made up of the struggles for supremacy of hundreds of petty houses, and thousands of petty dynasts, of whose very existence we should often be wholly ignorant but for their coins. These petty dynasts struck their money at towns of which next to nothing is often known, and thus the coinage is frequently our only means of establishing the position of the smaller towns of the mediaeval East. Sometimes these small towns preserve the names of cities famous in antiquity, but whose site, save for this numismatic evidence,



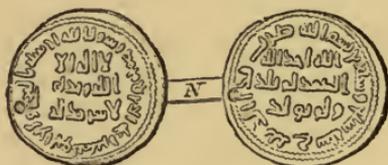
GOLD COIN OF 'ABD-EL-MELIK, KHALIF OF DAMASCUS, A.D. 696.

was uncertain. Thus geographically as well as historically Mohammadan coins have a high value.

Origin
of the
Coinage.

It took the Arabs half a century to discover the need of a separate coinage of their own. At first they were content to borrow their gold and copper currency from the Byzantine Empire, which they had driven out of Syria, and their silver coins from the Sassanian Kings of Persia, whom they had overthrown at the battles of Kadisfa and Nehavend. The Byzantine gold served them till the seventy-sixth year of the Flight, when a new, but theologically unsound and consequently evanescent, type was invented, bearing the effigy of the reigning Khalif instead of that of Heraclius, and Arabic instead of

Greek inscriptions. So, too, the Saffanian silver pieces were left unaltered, save for the addition of a governor's name in Pehlvi letters. The Khalif 'Aly or one of his lieutenants seems to have attempted to inaugurate a purely Muslim coinage, exactly resembling that which was afterwards adopted; but only one example of this issue is known to exist, in the Paris collection, together with three other silver coins struck at Damascus and Merv between A.H. 60 and 70, of a precisely similar type. These four coins are clearly early and ephemeral attempts at the intro-



REFORMED GOLD COIN OF 'ABD-EL-MELIK, A.D. 696.

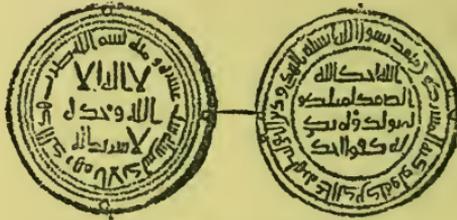
duction of a distinctive Mohammadan coinage, and their recent discovery in no way upsets the received Muslim tradition that it was the Khalif 'Abd-El-Melik who, in the year of the Flight 76 (or, on the evidence of the coins themselves, 77), inaugurated the regular Muslim coinage, which was thenceforward issued from all the mints of the empire so long as the dynasty endured, and which gave its general character to the whole currency of the kingdoms of Islam. The copper coinage founded on the Byzantine passed through more and earlier phases than the gold and silver, but it always held so insignificant a place in the Muslim

'Abd-El-Melik.

currency that we can afford to disregard it in the present brief outline.

Religious
Inscriptions.

Specimens of 'Abd-El-Melik's reformed coinage are here engraved. The gold and silver both bear the same formulae of faith: on the obverse, in the area, "There is no god but God alone, He hath no partner;" around which is arranged a marginal inscription, "Mohammad is the apostle of God, who sent him with the guidance and religion of truth, that he might



SILVER COIN OF THE KHALIFATE.
Struck in Andalusia, A. D. 734.

make it triumph over all other religions in spite of the idolaters," the gold stopping at "other religions." This inscription occurs on the reverse of the silver instead of the obverse, while the date inscription which is found on the reverse of the gold, appears on the obverse of the silver. The reverse area declares that "God is One, God is the Eternal: He begetteth not, nor is begotten;" here the gold ends, but the silver continues, "and there is none like unto Him." The margin of the gold runs, "In the name of God: this Dînâr was struck in the year seven and seventy;" the silver substituting "Dirhem" for Dînâr, and inserting the place of issue immediately after the

word Dirhem, *e.g.*, "El-Andalus [*i.e.* Andalusia] in the year 116." The mint is not given on the early gold coins, probably because they were uniformly struck at the Khalif's capital, Damascus. The contemporary copper coinage generally offers portions of the same formulae, with often the addition of the name of the governor of the province in which the coin was issued.

These original *dînârs* (a name formed from the Roman denarius) and dirhems (drachma) of the Khalifs of Damascus formed the model of all Muslim coinages for many centuries; and their respective weights—65 and 43 grains—served as the standard of all subsequent issues up to comparatively recent times. The fineness was about .979 gold in the *dînârs*, and .960 to .970 silver in the dirhems. The Mohammadan coinage was generally very pure. The 'Abbâsy *dînârs* retained the fineness of .979 for many centuries, and the same proportion of gold was observed in the issues of the Fâtimy Khalifs, the Almohades, and sometimes of the Almoravides, but the last usually employed a lower *titre*. At first ten dirhems went to the *dînâr*, but the relation varied from age to age.

The dynasty of Umawy or "Omniade" Khalifs, to which 'Abd-El-Melik belonged, continued to issue their *dînârs* and dirhems without any change until their overthrow at the hands of the 'Abbâsis in the year of the Flight 132, and even then one of the family fled to Spain, and there continued both the Umawy line and coinage in the Khalifate

Weight
and
Fineness.

Coinage
of the
Khalifate.

of Cordova, which lasted three centuries. The 'Abbâsy Khalifs, on succeeding to the eastern dominions of the Umawis, retained in all essential respects the coinage of their predecessors, substituting, however, for the formula of the reverse area, the words, "Mohammad is the apostle of God," thus repeating the beginning of the marginal inscription. They also inserted the name of the mint-city on the gold, as well as on the silver. Soon, moreover, the strict puritanism of the early Khalifs, which did not permit them to place their own names on the currency, gave way to the natural vanity of the ruler, and the names and titles of the 'Abbâsy Khalifs were regularly inserted beneath the reverse area inscription, often accompanied by the names of their heir-apparent and grand-vizir. Thus, for some 250 years the universal coinage of the Muslim Empire was of one simple and uniform type.

Dynastic
Coinage.

But with the sudden and general upspringing of small independent, or only nominally dependent, dynasties in the fourth century of the Hijrah, the tenth of our era, Muslim coins acquire their highest value. The history of the Khalifs has been carefully recorded, and their coins, though they confirm and sometimes give additional precision to the statements of the historians, do not greatly enlarge our knowledge. But when the Sâmânis in Transoxiana and Khorasan, the Saffâris in Seistan, the Buweyhis in various provinces of Persia, the Hamdânis in Syria (all adopting a predominantly silver coinage), and the Beny Tûlûn

and Ikhshîdis in Egypt (who coined almost exclusively gold), and the Idrîfis (silver) and Beny-l-Aghlab (chiefly gold) in North Africa, began to strike coins after the model of those of the Khali-fate, but abounding in names of local dynasts, the historical value of the coinage rises. These dynastic coins always retain the name of the reigning Khalif in the place of honour, and this conjunction of names of Khalif and dynast will often supply the required chronological data, in the absence or the obliteration of a definite year.

With the advent of the Seljuk Turks, who subdued the greater part of Persia, Syria, and Asia Minor, in the fifth century of the Hijreh, the coins acquire a special importance in deciding the difficult question of the territorial divisions of the various Seljuk lines; and the numerous dynasties of Atâbegs or generals of the Seljuk armies, which sprang up as soon as the central power grew weak, possess a numismatic interest in their general adoption of Byzantine types on their large copper pieces. On coins of the Urtukis, for example, a petty dynasty of some crusading fame that ruled a few fortresses in Mesopotamia, we meet with not only the figures of Byzantine Emperors, but those of Christ and the Virgin, with mangled inscriptions of Christian import. Figures of a similar character also appear on the coinage of the Ayyûbis (Saladin's Kurdish house), and that of the Beny Zengy of Môsil and Syria, together with the earliest known representation of the two-headed eagle, which has since ob-

Christian
Figures.

the possession of foreigners. The Mongols had overrun the Eastern provinces, which had not yet recovered from the inroad of the Turks, and henceforward the monotonous (chiefly silver) currency, and irregular standards, of the various Mongol houses, such as the Ilkhâns of Persia, the Jagatay family in Bokhâra, the different branches of the



SILVER COIN OF HOSEYN, SHAH OF PERSIA.
Struck at Isfahân, A.D. 1709.

House of Timur (Tamerlane), the Khâns of Kipchak, of the Krim, etc., weary the student; till the fine issues of the Shahs of Persia and the Kings and Emperors of Dehli restore something like order and beauty to the chaos that, numif-

matically as well as historically—the two generally go together—succeeded the terrible swoop of Chinguis Khan. Even here, however, there are points of interest; and the long series of coins of the Khanates of the Caspian throw a valuable light upon the early history of the Russian States under the Mohammadan supremacy.

Mamlûks
of Egypt.

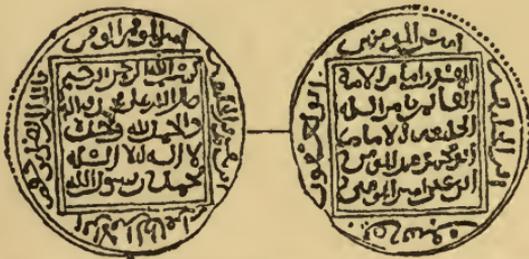
Meanwhile the Mamlûks, in their two lines—Turkish and Circassian—held sway over the provinces of Egypt and Syria, and left many a noble monument of art and culture behind them. Their (predominantly gold) coinage, however, in spite of the representation of Beybar's lion, and some forms of ornament which are interesting to compare with the contemporary architecture, is poor and debased.

Berber
Dynasties.

Several Berber dynasties had established themselves since the eleventh century in the Barbary States, and continued for half a millennium to issue their large gold pieces, resembling the coin engraved opposite. One of these, the line of Sherîfs of Morocco, endures to the present day, but the Ottoman Turks extinguished the others in the sixteenth century. This clan of Turks rose into power about the same time as the Mongols and Mamlûks. From one of ten petty dynasties that fattened upon the decay of the Seljuk kingdom of Anatolia, they became by the end of the fourteenth century rulers of all Asia Minor and a slice of Europe, and the middle of the sixteenth saw them possessed of an empire that stretched from Hungary to the Caspian, and from Baghdad to Algiers. The Ottoman currency at first con-

sifted of small silver and copper pieces, bearing no very obvious relation, either in weight or style, to the old Seljuk or the older Khalif's coinage, and for a long time they were content to use foreign gold. Mohammad II., the conqueror of Constantinople, was the first to strike gold coins, upon the model of the Venetian sequins, but of course with Arabic inscriptions. Various gold sequins or "altuns," small silver "akchehs," and copper "manghirs" constituted the Turkish currency up to the beginning of our seventeenth century. A double standard of sequins and a perfectly new

Ottoman
Turks.



GOLD COIN OF ALMOHADES, MOROCCO. Fourteenth Century.

silver coinage, based upon the Dutch dollar, with numerous subdivisions and multiples, was then introduced, and was ever after the subject of countless modifications and degradations, until, after an unsuccessful attempt at reform by the great Mahmûd II., the modern Turkish series, approximating the monetary systems of Europe, was inaugurated by Sultan 'Abd-El-Mejîd, and is hence known as the Mejdîyeh. A similar series, bearing the Sultan's but not the Viceroy's names, was and is in use in Egypt, and a third series, on a different basis, in Tunis. The Turkish coinage as a whole

is important in its relations with the Mediterranean currencies, and it has a certain bearing upon the history of trade in the Middle Ages. It has also a value in determining the limits of the Turkish Empire at different periods, as the number of mints is very considerable.

The true value of Mohammadan coins lies, as has been said, in their historical data. What is really wanted is a *Corpus* of Mohammadan Numismatics, which should present, in well-arranged tables and indexes, the results of the coin-evidence of all the collections of Europe, and should place them at the service of historical students without compelling them to learn a difficult language and a still more difficult palaeography. There is little that is interesting in Mohammadan coins apart from their aid to history, and if their actual contributions to historical knowledge were once summarized and tabulated, few but inveterate collectors would want to study them. I write after finishing the eighth volume of my *Catalogue of Oriental Coins in the British Museum*, which has been going on for the last ten years, and describes over six thousand coins issued by a hundred separate dynasties, some of which consist of thirty or forty Kings; and I have no hesitation in saying that Oriental numismatics is a science which is interesting mainly in its results. Those results, however, are of the very first importance to the historian, and in this respect Mohammadan coins may challenge comparison with any other series without fear of being found wanting.



CHAPTER VIII.

COINS OF INDIA.

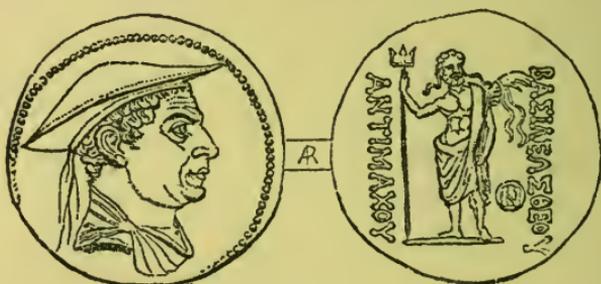


THE first section of this chapter deals with the coinage of India from its commencement to the Mohammadan Conquest; the second section treats of the coins of the foreign dynasties of Islam who ruled in Northern India.

The earliest coinage of India is, like the earliest works of Indian art which have come down to us, purely Greek. To trace the gradual absorption of Greek language and art by those of the older inhabitants is a possible and very interesting employment. One of the most important and interesting of all numismatic series is that of the coins issued on the borders of the Oxus and the Indus in the ages succeeding the revolt of the Eastern provinces of the Syro-Greek Empire in the reign of Antiochus II., about B.C. 250. The earliest rulers of the revolted regions were Diodotus and Euthydemus, followed in the second century by Antimachus, Eucratides, Menander, and a bewildered

Greek
Kings.

ing crowd of kings with Greek names, whose coins have reached us to testify, in the absence of all historical record, to their wealth and splendour, their Greek language and religion, their skill in art and the wide extension of their conquests. The number of these rulers is so great that we must give up the hypothesis that they succeeded one another in a single royal line; rather would it appear that they belonged to a number of different, probably rival, dynasties, who reigned in different



ANTIMACHUS, INDIAN KING. About B.C. 150.

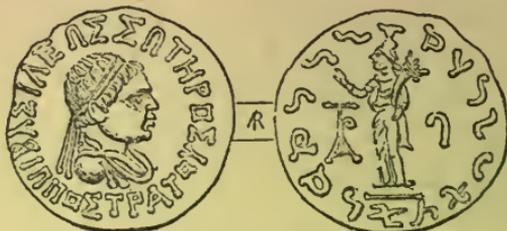
parts of Afghanistan, the Panjâb, and the Indus valley. Of all these powerful monarchs there is scarcely a trace in history; their cities, their palaces, their civilization, have entirely perished; their coins alone survive. Hence, while in the case of Greece and Rome coins are aids to history, in India they contain all the history we can hope to recover. And by degrees, as the number of our coins increases, so that we can form wide generalizations, and as the spots where the pieces of different sorts are found are more scrupulously recorded, we may hope to be able to form an idea of the history of Greek India. At present we are

far from being in so fortunate a condition ; all that I shall now attempt is to gather from the coins a few general indications.

The coins prove that Greek rule in India went on spreading east and south during the second century. Greek Kings ruled even at the mouth of the Indus, and as far as the Ganges. And their civilization, or at least that of their courts and armies, was thoroughly Greek ; the legends of their coins are at first purely Hellenic ; and well-executed figures of Zeus, Pallas, Poseidon, Herakles, the Dioscuri, and other Greek deities prove that they brought with them the religion of their ancestors. Probably there was a constantly setting stream of Greek mercenaries towards these remote lands, who formed military colonies in them, and peopled dominant cities which occupied in India the same position which the Greek cities of Ptolemais and Alexandria held in Egypt, and the Greek cities of Seleucia, Ragae, etc., in Parthia.

In the beginning of the second century the Parthian Empire was driven like a wedge between Greek-speaking countries and the Graecized cities of the Cabul valley, cutting off intercourse between the two ; and the Indo-Greek cities began at once to languish, and their inhabitants to become more and more barbarized. We can trace the whole process on coins. Eucratides and his successor Heliocles introduce the custom of adding on the reverse of the coin a translation in Indian of the Greek legend of the obverse. And under some of the Kings we find traces of the barbariza-

tion of Greek divinities, as when on a coin of Telephus we find strange outlandish figures of Helios and Selene, when on a coin of Hippostratus



HIPPOSTRATUS.

we find a barbarous imitation of the Greek Genius of a city, or when on coins of Amyntas we find a divinity wearing a Phrygian cap from which flames or rays issue.

Hermaeus, who may have reigned late in the first century B.C., was the last of the Greek Kings of Cabul. During his life came the deluge: hords of Sacae, Yu-chi, and other nomad tribes from the borders of China swarmed down upon the devoted Greek kingdoms of the East and completely overwhelmed them. But these barbarians adopted,

Scythic
Kings.



HERAUS, KING OF THE SACAË.

like the Parthians, something of the civilization of those they conquered. The coins of Maues, Azes, and others of their Kings bear Greek in-

scriptions, and the figures of Greek divinities, and conform in most respects to Greek usage, so that but for the barbarous character of the names of these Kings we might have supposed them to be of Greek descent.

The powerful and wealthy Scythian Kings who ruled in North-western India in the second century of our era—Kadphises, Kanerkes, and Ooerkes—have left us a wonderful abundance of remarkable coins, which are sometimes found in India together with the aurei of contemporary Roman Emperors in the stupas or mounds which they erected over the relics of Kings or Buddhist saints. These Kings did not use issues of silver, like their Greek and Scythian predecessors, but of gold. On one side of their coins is an effigy of the reigning monarch, and an inscription in barbarized Greek, giving his name and titles. On the other side is the figure of some deity accompanied by his name in Greek letters; and the number and variety of these types are enormous. We have figures of the Greek Sarapis and Herakles, of the Persian Mithras and Nanaia, of the Indian Siva and Parvati, and even of Buddha, who appears on the coins in the attitude of a preacher. The Pantheon of these barbarians must have been of the most eclectic character, though we know from their inscriptions and other remains that they considered themselves Buddhists.

As early as the first issues of the Indo-Greek ^{Native} Kings, or scarcely later, are the first coins of native fabric. These are what are termed "punched coins." They are small squares cut out of a thin plate of

silver, and impressed with devices by means, not of a die, but of a mere punch. The figures which they bear are very various, Buddhist emblems, archaic patterns, astrological devices, each probably the special mark of some mint, and authorizing the circulation of the piece so stamped in some particular district or city.

The punched coins circulated extensively in Central India. And at the same time there passed in Western India a great quantity of imitations of the coins of Greek and Scythian Kings. The coins of the dynasty of Kanerkes, in particular, were copied through a series of centuries, art and metal alike gradually deteriorating until in place of gold we have copper, and in place of the forms of kings and deities mere shapeless blotches.

The Sunga Kings of Magadha, who reigned in the second century before our aera, have left us a few coins which are valuable because of their early date. There were, however, in Northern India, before the time of Mahmud of Ghazny, notably three lines of native rulers who issued coins of creditable style, and impressed with legible Sanskrit legends. First of these we may name the Gupta Kings of Kanauj. These wealthy and powerful monarchs, who seem to have been supreme throughout the whole of Northern India, issued money of almost pure Indian style, which bears types sometimes taken from Indian religious cult, as when Parvati is depicted seated on a peacock; or allusion is made to the *Aśvamedha*, the Indian

horse-sacrifice. The gold pieces of the Gupta Kings may be ranged beside those of the powerful Scythic Kings, as illustrative of the conflict of two civilizations, the native and the foreign.

In the district of Saurashtra, or Gujarat, there began, about the first century of our era, the issue of silver coins by the Sah dynasty. These pieces Sah Kings. are copied from those of Menander and other Greek Kings, but yet have something distinctively Hindu about them. The heads which they bear on their obverse are portraits of a succession of native Rajahs; on the reverse, in the midst of a rather long Sanskrit legend, is a Buddhist emblem, usually one which is interpreted as representing a sacred hill erected over some relic. Their fabric is remarkably clear and neat, and they look as if the race to whom they belonged was by no means backward in civilization and commerce. And it is notable that the land of Gujarat is that which would be the natural *entrepôt* of trade between the parts of India on the one hand, and those of Rome and Egypt on the other. The Sah Kings were succeeded by a dynasty of Guptas, who issued coins of quite similar kind.

Very well known to Indian collectors are the Brahman Kings of Cabul. coins which show on one side a bull, on the other a horseman bearing a spear, and which are called "bull and horseman" coins. They are of silver, and the commonest class bear in Sanskrit letters the names of certain Rajput Kings who ruled in Cabul shortly before the invasion of India by Mahmud of Ghazny. The work of these is neither

purely Greek nor entirely Indian, but reminds us rather of some of the issues of Byzantium.

These are, perhaps, the most important classes of native coins of early time ; but there are many other groups. For instance, we have whole series of coins issued by the Kings of Kashmir and of Ceylon ; and in the mist which hides early Indian history we can make out vaguely the forms of kings and dynasties which fast succeeded one another, or carried on war and commerce side by side. The majority of these rulers issued coin ; and by slow degrees the few workers who have given attention to Indian numismatics are beginning to identify and arrange the multitudinous coins struck by them, a process which may in time bring us valuable evidence as to the divisions and the history of early India. But as yet comparatively little has been ascertained, and still less published ; and our readers would only be fatigued by a list of dynasties as to which we have no information, and rulers whose names survive only on the money which they issued, or in some bare dynastic list.

The Mohammadan coinage of India possesses the same merits and defects that have already been assigned to Mohammadan coins in general. We must not, as a rule, expect to see the triumphs of the engraver's art upon the face of the Indian currency. Inscriptions, and nothing but inscriptions, form the chief interest of the Indian coins of the Muslim period ; and to these inscriptions belongs the principal value of the study of such

pieces. There is also the interest attaching to metrological peculiarities, which cannot be touched upon here, but of which the curious reader may obtain a thorough knowledge by an inspection of the works of Prinsep and Thomas. But even the latter, *facile princeps* among living Indian numismatists, devoted as he is to the intricate questions connected with the weights and standards of India, is ready to allow to the inscriptions the chief place among the characteristics of the coinage. The value of the illustration that these inscriptions afford, as applied to mediæval Indian annals, is greatly enhanced, he says, "by the exaggerated importance attached by the Muslims themselves to that department of the conventional regal functions, involved in the right to coin. Among these peoples, the recitation of the public prayer in the name of the aspirant to the throne, associated with the issue of money bearing his superscription, was unhesitatingly received as the overt act of accession. Unquestionably, in the state of civilization here obtaining, the production and facile dispersion of a new royal device was singularly well adapted to make manifest to the comprehension of all classes the immediate change in the supreme ruling power. In places where men did not print, these stamped moneys, obtruding into every bazaar, constituted the most effective manifestoes and proclamations human ingenuity could have devised: readily multiplied, they were individually the easiest and most naturally transported of all official documents; the veriest fakîr in his semi-nude costume might

carry the ostensible proof of a new dynasty into regions where even the name of the kingdom itself was unknown. In short, there was but little limit to the range of these Eastern heralds; the numismatic Garter King-at-Arms was recognised wherever Asiatic nations accepted the gold, and interpreters could be found to designate the Caesar whose 'epigraph' figured on its surface. So also on the occasion of a new conquest: the reigning Sultân's titles were ostentatiously paraded on the local money, ordinarily in the language and alphabet of the indigenous races, to secure the more effective announcement that they themselves had passed under the sway of an alien suzerain. Equally, on the other hand, does any modification of, or departure from, the rule of a comprehensive issue of coin imply an imperfection relative or positive in the acquisition of supreme power."¹

Copper
Currency.

The first important fact to be noted about the Mohammadan coinage of India is that while the gold and silver were generally more or less adaptations, assimilated to ancient Indian standards, of the *dînâr* and *dirhem* which prevailed over the whole empire of Islam, the copper currency retained as a rule its Indian character, and preserved those local characteristics which it possessed before the invasion of the Muslims. In other words, the coins most in request were left in the form which was best understood by the people who used them, while the less frequent gold and silver, the Court currency, received the impress

¹ *Chronicles of the Pathan Kings of Dehli*, p. 2.

of the ruling religion. So we find the conquering Mahmûd of Ghazny, the first Muslim to snatch any part of India, issuing copper coins with Hindu characters such as the people of the Panjâb would understand, and with the image of the Bull Nandy, sacred to Hindus, but repugnant to Mohammadans, while his silver coins retain all the puritanical plainness that belongs to orthodox Islam. Mahmûd's successors, the dynasty of Ghaznawis or "Ghaznevides," who established themselves at Lahore, continued to mingle this native coinage with their imported formulas of faith. The succeeding dynasties adopted the same principle, and admitted the Bull and the Chohan or Cabul horseman to a place beside the profession of faith in one God; and we may state as a general fact that the common copper, or more frequently billon, currency of India, under Mohammadan rule, remained Indian and local, and retained the old symbols and characters of Hindustan.

The most important Mohammadan dynasties of India were the so-called Patans of Dehli, with the subordinate but often independent line at Bengal, who reigned over most of Northern India from the end of the twelfth to the middle of the sixteenth century of our era; and the Moguls, who were the successors of the famous Timur or Tamerlane, and following the Patans extended their sway over a still wider area, from the middle of the sixteenth century to the well-remembered days when England set an Empress in the place of the

Muslim
Dynasties.

great Mogul. These two great houses really fill up the chronology of Mohammadan numismatics in Hindustan, but by no means exhaust the geography. The number of smaller dynasties, native or Muslim, who struck coins either in their own characters, or, more rarely, the Arabic style, is legion. Among the more important of these may be mentioned the Bahmany Kings, who ruled the greater part of the Dekhan, from Kulbarga, (which they re-christened Ahfanabad, or the "Most Beautiful City,") from the fourteenth to the sixteenth century; the Kings of Jaunpûr, Mewâr, Malwah, and Gujarat, who sprung into independence on the weakening of the central power in the fourteenth century, and generally lasted till the great annexations of the Mogul Emperors Baber and Akbar in the sixteenth.

Patans.

The Patans and Moguls, however, may be selected as the Mohammadan coins of India *par excellence*. The Patans introduced a gold and silver coinage of singular purity and equal weight in either metal (about 174 grains), with often identical inscriptions, called the Tankah, which the Moguls afterwards converted into the gold mohr and silver rupee, which are so familiar to readers of Indian history. The inscriptions of the Patans are in Arabic, as a rule of slight pretensions to calligraphic excellence, but clear and solid, and presenting the usual statistics of the name of sovereign, of mint, and date, with sometimes a reference to the *fainéant* 'Abbâsy Khalifs who had been set up in Egypt by the

Mamlûks on the destruction of the Khalifate at Baghdad by Hulagu Khán. Beyond some curious posthumous issues and this homage to a decrepit Khalifate, there is little that is particularly interesting to any but metrologists and professed numismatists in the Patan coinage. One sovereign, however, possessed a genius for innovation, and his coinage presents not a few features of interest. This was Mohammad Mohammad ibn Taghlak. ibn Taghlak (A.D. 1324-51), a prince whose character abounds in astonishing contrasts. "Generous to profusion, an accomplished scholar, abstinent, a firm defender of his faith, and the most experienced general of his day," he was yet possessed by a ferocious spirit that knew no mercy or regard for human life, and cursed with "a perversion of intellect which induced him to allow despotism to run into insane fury at any sign of opposition to his will."¹ It was his fate at first to gather the empire together more firmly and with wider boundaries than ever; and then, by the eccentricity or madness of his rule, to sow the seeds of that general disintegration which barely waited for his death before it displayed its independence in every part of the empire. Among the signs of Mohammad ibn Taghlak's eccentricity is his coinage. It testifies to his taste, inasmuch as it is infinitely better engraved than any of the issues of his predecessors; and it bears witness to his passion for novelty, since it affords illustrations of several monetary reforms, all of which collapsed

¹ E. Thomas : *Chronicles*, p. 202.

almost as soon as they were instituted. First Mohammad ibn Taghlak resolved to alter the standard Tankah, which had hitherto been of the uniform weight of 174 grs. for both gold and silver, and to raise the gold to 200 grs., and lower the silver to 140; but he failed to make his new standards acceptable to his subjects, and in three or four years the old Tankah had to be restored. His next attempt was a much bolder flight. He had apparently heard of the fiduciary paper currency which Khubilai Khán had successfully introduced into the Celestial Empire, and which had been imitated, with very different results, in Persia, and he resolved to try the effects of a forced currency in his own dominions. No fraud was apparently contemplated, for the Dehli treasury was overflowing, and when the experiment failed, the forced pieces were bought in at the mint at the nominal value, without any scrutiny for clipping or counterfeiting. This forced currency was of brass and copper, and was engraved with words meant to compel their acceptance, such as "He who obeys the Sultan, verily he obeys God," and an inscription stating it to be the equivalent of the silver Tankah; but no threats, even of so absolute a despot as the Patan King, could commend these pieces to the people, and in less than three years they were abandoned.

Moguls of
Dehli.

The Mogul coins have inscriptions mainly in Persian, and are also remarkable not only for occasional eccentricity of shape, such as the ornate oblongs which Akbar issued, but for the repre-

sentation of figures. The zodiacal rupees and mohrs of Jehangîr are well known, with the signs of the Zodiac engraved in bold relief; but the same Emperor even went so far as to engrave a portrait of himself in the act of raising the forbidden winecup to his lips. As a rule, however, the Mogul coinage contents itself with the usual notices of names, titles, mints, and dates, and felicitous references to the monarchs' happy and



GOLD MOHR OF JEHANGÎR.

auspicious reigns. Such was the inscription of the Sikkeh rupee which (on a principle of frequent application at Dehli, when a king of doubtful authority sought to support himself upon the monetary credit of some predecessor) was retained by the East India Company till 1835, long after the Sovereign to whom it applied had gone to his Paradise: "Defender of the Mohammadan religion, mirror of the grace of God, the Emperor Shah Alam struck this coin to be current throughout the seven climes. Struck at Murshidâbâd in the year 19 of his fortunate reign." Sikkeh
Rupee.



CHAPTER IX.

CHINA AND JAPAN.

THE coinages of Eastern Asia are often the most valuable records we possess of the various nations' progress in wealth and civilization. Much of ancient history is gathered from them, and they are sometimes the only clue to events for which historians would otherwise have to draw largely on their imaginations. In them we find historical proofs and materials—records which illustrate the political events in the life of great empires—data illustrating schemes for supplying the deficiency of metals, or avoiding the necessity of a more extensive metallic currency. We see in China, for instance, the continued struggle of the primitive system of barter with the system of fiduciary money required by the enlargement of the population and the development of exchange; and we see, also, in the application of economical principles very different from those of Europe, the various attempts made by the Government to detain the

people in a mediocrity of material life (not the *aurea mediocritas* of the poet), where an absence of wants and desires keeps them within the range of their ideal of happiness.

These considerations, interesting to the economist and historian, are not the only elements of value in the study of the coinage, besides the bare statements of facts and dates which form the skeleton of history. The illustrations and ornamentations of the medals, charms, and tokens exemplify the superstitions, the habits and customs of the people, and make some amends for the chief defect of the coinage of the Far East, the lack of artistic excellence.

The civilized clans who bore the generic name CHINA. of Pak or "flourishing," and travelling eastwards brought to China all the elements of a culture indirectly derived from the old focus of Babylonia, had not been taught in their previous home, west of the Hindu-kush, any other currency than that of weighing metals. Their earliest traditions do not point to any other; the development of barter and the use of cowries arose from necessity, and intercourse with the indigenous tribes of their new country. The succession of the words employed to denote the various substitutes of the as yet undiscovered money is in itself suggestive of what took place in former times. The expression used by later historians when speaking of the early pseudo-money is *pit*, a character meaning "wealth, riches." We must understand from the traditions that in the time of the Great Hot Pak-ket (Ur-

Bagath of Babylonian tradition), money was *metal*, and that afterwards, from the time of Nak Khunte (Nai Hwang-ti, ? B.C. 2250) and his Chinese successors, it became any exchangeable merchandise. For the people of Shang and of Ts'i, pieces of silk or hempen-cloth were money; later on, in the feudal states of Ts'i and that of Kiu, knives (*tao*) were used as currency. During the three dynasties of Yao, Hia, and Shang (B.C. 2100-1080), gold, silver, and copper were employed, besides cloth, tortoise-shell, and cowries.

Shell
Currency.

The use of shells as a medium of exchange by the ancient Chinese is a matter of peculiar interest in its antiquity, and its connection with the once widely extended cowry-shell currency. We find it mentioned at its very outset among the newly arrived Chinese, in their earliest book, the *Yb-King*, where, as an equivalent of "riches," we read "100,000 dead shell-fishes." The tortoise-shell currency is also mentioned in the same canonical book. Shell-currency began under the Hia dynasty (2000-1550 B.C.), when they had relations with the aborigines of the south and south-east of their newly conquered dominion. To what extent it was carried previously to their time we know not, but we have literary evidence that, with the superior culture which they had brought with them, they soon gave to shell-currency a development corresponding to their higher wealth and requirements.

Traces of the use of shells as a medium of exchange have remained crystallized in the written

and spoken languages; the ideogram *pei* "shell" has the meaning of wealth and riches, and has been added as a silent determinative to many characters of the same class of meaning: goods, property, selling, prices, cheap, dear, stores, etc.; but it is worth noticing that the use of *pei* in this secondary meaning does not appear in the earliest characters of the language. In the wonderful *Geographical Survey* which goes by the name of Yü the Great, and might be as old as the eighteenth century B.C., the people of the islands along the coasts of Yang-tcheu had to bring cowries as tribute. Yang-tcheu was the south-east division of the Chinese dominion, or rather of the regions upon which they eventually extended their suzerainty; its southern borders were ill-defined, but it included the modern provinces of Tcheh-Kiang, Fuh-Kien, etc. It was from the islands of that part of China that the cowries exhibited at the International Fisheries Exhibition of South Kensington, 1883, were sent.

Cowries were not the only shells used; that of the tortoise of various species and sizes was used for the greater values, which would have required too many cowries; and a survival of the old custom has remained in the language, where the expression *knei-hwo*, or tortoise-shell money, is used elegantly to denote a coin. Several sorts of *Cypraea* were employed, one of which, the "purple shell," two or three inches long, was formerly found on the shores of the prefecture of Teng-tchen, north of the Shantung peninsula.

The celebrated classic of the Mountains and Seas (*Shan Hai King*), of which the first thirteen books have reached their bulk by an innumerable series of incorporated additions since the time of the Shang dynasty, twelfth century, down to the fourth century B.C., indicates the streams and waters where the precious and variegated shells could be found; *i.e.*, mainly in the south-east and west. And the *Pen-t'iao* classic, for which an earlier origin is claimed, states that the cowries (*pei-tze* or *pei-tch'i*) live in the Eastern Sea; that is, south-east of the Shantung peninsula.

All these shells, excepting the small ones, were current in pairs, and it is this practice which is alluded to in the following third stanza of an ode of the *Book of Poetry*; commonly attributed to the tenth century B.C.:

“Luxuriantly grows the after-southernwood,
In the midst of that great height,
We see our noble lord
And he gives us a hundred pairs of *Cypraea* shells.”

Mas She, the well-known editor of the *Book of Poetry* in the second century B.C., commenting upon the shell-currency, speaks of *tze-pei*, or purple *Cypraea*, but only as ranking after the sea-tortoise-shell, measuring 1 foot 6 inches, which in his time could be obtained but in Kiu-tchin and Riao-tchi (Cochin-China and Annam), where they were used to make pots, basins, and other valuable objects. We learn by this statement that the use as currency of larger shells than the *Cypraea moneta* had not extended outside China. But as

to China proper, the great scholar we have just quoted could hardly speak from personal experience, as the shell-currency no more existed officially in his time. Big shells were still appreciated and sought for as an object of luxury, and remained thus long afterwards. We find recorded in the *Han Annals*, that the Emperor Wen, in 179 B.C., having presented the King of Southern Yueh with a hundred robes, the latter, with other presents, returned five hundred of purple *Cypraea*. The shell-currency was, however, fading away. It had received a great blow a long while previously from Hwei Wen, the Prince of Ts'ing, who in his second year, *i.e.* 335 B.C., recognising the difficulties of finding a proper supply of shells and cowries, and the rapidly increasing demand for a convenient currency, altogether suppressed it. The inland position of Ts'ing, far away from the sources of supply, combined with the fact that metallic coins of various shapes and sizes had begun to be recognised as a more practicable medium of exchange in the other states of the Chinese agglomeration, were the two main reasons which led this ancestor of the founder of the Chinese Empire to abolish the cumbrous system of shell-currency and to adopt the more perfect system of metallic coins, already put in practice by private persons in several of the neighbouring states. He issued then the round copper coin, with a central square hole, and the legend *pan-liang* ($=\frac{1}{2}$ ounce), indicating its value, which was afterwards imitated by the rulers of the Han dynasty, and is, in fact, the

Earliest
Metal
Coinage.

direct and uninterrupted ancestor of the Chinese coins of the present day.

A time-honoured system like the shell-currency, however, could not disappear without struggling a while in out-of-the-way places, and, among a people of routine like the Chinese, could not lack supporters. It is to this conservative tendency that the country was indebted for an attempt to revive the old-fashioned currency. Wang Mang, the usurper who ruled in China (A.D. 9-23) between the two great Han dynasties, wanted, indeed, to rescind all the innovations introduced in the country by the eclipsed dynasty. Accordingly he enacted new statutes—one of which re-established a shell-currency consisting of five categories, the higher one of tortoise-shells being divided in ten classes. How far these differed from the old system we are unable to say for want of proper information; still, it is not unlikely that the discrepancies were small. But the intelligent part of the people, and the traders, objected to the revival of the antiquated system; and, in A.D. 14, Wang Mang had to cancel his former decrees. After his time we hear no more of the cowry-currency in China proper; but we trace its influence in the issue of small copper coins, shaped, indeed, as a small *Cypraea*, roughly imitated by their ovoidal or pear-like form, and commonly called Dragon's-head coins and Ant-coins, or Ant-nose coins. Some have been found of three different sizes, with the respective legends, *Liang* (for 1 oz.), *pan-liang* (or $\frac{1}{2}$ oz.), and *Kob lub*

tchu, "each fix tchus," written in a rather out-of-the-way manner; but certainly, by the style of writing, issued in the last centuries before the Christian era, in Tfu, the southernmost state of the Chinese confederation.

The working of mines in China has rarely ^{Mines.} been left open to private enterprise; the authorities seem to have been afraid to leave the people free to acquire riches in that way; and as a rule they kept it for themselves, and exercised much care and moderation in its use. Strict regulations have always forbidden the extraction of metals beyond limited quantities. Recourse to the mines could take place in primitive times only in cases of inundation or other great need. We find in the fragments of a still existing work on government and legislation, by an able financier, Kwan-tze, who was a prime minister of the feudal state of Tai, in 685 B.C., an allusion to the effect of such floods: "When," he says, "from east, west, north, and south, all over a surface of 7,000 or 8,000 li, all intercourse with these parts was cut off by the inundation, and in consequence of the length of the way, and the difficulties of reaching them, neither boat nor cart could penetrate thither; the people therefore relied on, and employed according to their measures, pearls and gems as the highest commodities, then gold, and, as the third and lower class, knives and cloth."

Metals in lumps were considered, since the beginning of the Shang dynasty, as a source of prosperity; they were called *trinon*, "spring or

source," and the name lasted till its substitution by a quasi-homonym *tsien*, in allusion to the small copper implements of husbandry used later as currency. It is from the same time that the habit of hoarding bullion originated. We read that when the Shang dynasty was overthrown by Wu Wang, the founder of the Tchou dynasty, all the wealth accumulated by the last King, the scapegoat of the abuses and mistakes of his whole lineage, in the splendid palace called the Deer Gallery, was sacked and distributed to the people.

Tchou
Dynasty.

With the accession of the Tchou dynasty (1122 B.C.), a new era opened in the history of Chinese money. Regulations were established to fix the relative value of all the exchangeable commodities. The honour of this institution is attributed to the great Duke of Ts'i, who in 1103 B.C. established the rules of circulating money for the nine administrative boards of finance, which had been organized previously by another famous administrator, the Duke of Tchou. From commentaries of ancient date we understand that the gold circulated in the shape of little cubes of one square inch weighing a *kin*; the copper in round tongue-like plates was weighed by drachms (*tchu*); the silk cloth, 2 feet 2 inches wide, in rolls of 40 feet length formed a piece. The great man who had so successfully introduced order and principles in matters which seem to have been hitherto left to the caprice of individuals or to local and momentary necessity (and who, by-the-way, was not a Chinese, but a native of the

aboriginal tribes of the East), retired to the Dukedom of Ts'i, where he issued the same regulations as in the Middle Kingdom. We have an insight into the working of the new organization some hundred and fifty years afterwards, from a chapter of the *Shu King*. At the end of the reign of King Muh of Tchou, *i.e.* previous to 947 B.C., enactments were made for the mulcts and fines; to redeem the penalties such as branding, mutilation or death, the culprit was allowed to pay 100, 200, 500 or 1,000 *hwan*. The *hwan* was a ring of copper weighing 6 oz., and this so far corresponds to the round shape enumerated in the Record of Institutes of the great Duke of Ts'i.

The Duke Hwan of Ts'i (the fourteenth successor of the former), who ruled from 685 to 644 B.C., and whose prime minister was the worthy financier Kwan-tze, of whom we have spoken above, in order to make known and accessible to the public the various weights, commissioned the Left Master of the Horses to cast some metal from the mines of the Tchwang mountain. The Duke Hwan was the leader of the feudal princes of the Chinese agglomeration, and he swayed the empire under the nominal suzerainty of King Hwey of Tchou, and his regulations were therefore of a more momentous character than those of any other prince in his dominion. Of the same Duke tradition says that from the bullion cast at his own command he ordered the Inner Great Officer Wang yh to carry 2,000 *tsien* to the state of Tsfu,

in order to purchase a living stag. What was the unit represented here by the expression *tshen*, is not stated. Should we trust the word itself, it meant a small implement of husbandry in metal, which, being frequently used for its weight and intrinsic value, became the current expression for money.

Adze
Currency.

Indeed, the only obligation of weighing the metal for currency had not prevented the use of any object or implement for the purpose of exchange according to their verified weights; the choice of the tools of constant and daily use among a people exclusively occupied in agricultural pursuits naturally commended itself. Small adzes and billhooks above all were prominent by their large number and easy handling. We can readily conceive how at first the exchange of such tools would be accepted with facility by the people in their transactions; they could be either employed for their primeval object if wanted, or exchanged with readiness in case of need. However, there was no limit to the selection of any particular form, while the employ of metal in bare lumps was never refused. All sorts of objects were made use of for exchange in early times, and their endless variety may be gathered from the following enumeration of strangely shaped moneys of old: "Those like a bridge crosswise were commonly musical-stone money; those shaped as a comb were commonly padlock money; those shaped as a half-moon were the half-moon money;" the author goes on to

mention the fish-scale money and the shell-money. Specimens of these rare shapes rarely appear in numismatic collections, and only in casts, which are always open to some kind of suspicion as to the genuineness of the original used for moulding. We do not know how far the regulations of the great Duke Wang, and those of his later successor, Duke Hwan, limited the variety of shapes; but small implements of husbandry were those which were almost exclusively used for a long period, especially small adzes, chisels, spades, or planes. They are an interesting survival of a peculiar tool of the stone age, hitherto found nowhere else than in South-Eastern Asia. While all the hitherto found implements of this rude stage of industry are limited to a few types which present only slight variations in whatever country they are excavated, the type we are speaking of is an exception. Its name, "shouldered-headed celt," is pretty well descriptive of its shape, which is closely imitated in the bronze implements of China used for currency. The only characteristic of the stone antecedent, which has disappeared because of the thinness of the metal, consists "in the edge being ground down on *one* side like a chisel, instead of on both sides like an axe, as is usually the case." The shouldered-headed celts are generally found in the Malayan peninsula, in the lower part of Burmah, within the provinces of Pegu and Tennaasserim; they have been found at Chutiâ Nâgpûr, in Central India; and quite lately at Semrang Sen (south-west of Lake Tanli-Sap), in Cambodia.

Weights
and Im-
plements.

Thus we can trace, up to the administration of Kwan-tze, a twofold development in the history of Chinese moneys. Besides the weights properly so-called, whatever may have been the occasional employ made of them, arose the custom of casting small implements, which for convenience were used in exchange, of a regular shape and approximate weight; and gradually, as a natural sequence of that system, came the practice of having them inscribed with the name of the place or city where they were cast and put in circulation.

Ring
Weights.

The system of ring-weights, which may, perhaps, be traced to an Egyptian source, was continued down to the foundation of the Chinese Empire, when it was slightly modified into the pattern still in use in the present day. When King Hwei Wan of Ts'in, the future conqueror of the whole of China, wanted to throw over the still surviving use of cowry currency, in 338 B.C., he ordered ring-weights to be cast, of which specimens are found. Those hitherto known bear the inscription of their weight, "weighing 1 oz. 12 drs.," or "1 oz. 14 drs.," or only "12 drs.," differences which are suggestive of a larger number of varieties at present unknown.

Relics of the other shapes of metallic currency are still in existence, though not in large numbers, in the European collections. Of the *tch'ang*, or adze or spade-pattern, we know by actual specimens that some were cast specially for the purpose of currency; for they are too light to have been intended for practical work. Some do not bear

any inscription whatever, but usually they are inscribed with the name of the town where they were cast; this custom was of course of later introduction, when some tool-shaped objects were cast in large numbers, without a view to their use as implements, or in smaller size than was required for industrial purposes. These pseudo-coins were inscribed with the name of the place or city, and they were commonly called slip-weights, or leaf-weights, or helping-weights, slips or leaves. They were not issued by the governments, but by private individuals. Specimens, with the indication of 2 Kins, 1 Kin, $\frac{1}{2}$ Kin, and of proportionated sizes bear the names of the cities of An-yü, Yü, Shan-yang, Liang, etc. Though a private business, the central government several times attempted to modify it. Thus King Tchwang of Tsfu, who ruled in his principality from 612 to 589 B.C., vainly endeavoured to create a nominal currency by reducing to the value of units the larger pieces actually worth several units; and a similar failure attended in 523 B.C. the issue by King, the ruler of Tchou, of large pieces (hitherto unidentified), intended to supersede altogether the small ones in circulation, which the King fancied were too light.

During the ages following, which are known as the Period of the Contending States, money was multiplied at a great rate in the Chinese agglomeration. The confederation of the various states, after having lasted several centuries, had ceased to exist, and each of the principalities was fighting for supremacy over the others; and

Leaf
Weights.

Period of
the Con-
tending
States.

in some of the states the fight was in fact a struggle for life. After some two centuries of incessant wars, seven stronger states survived, only to be finally subdued and absorbed by the most powerful of them, the western state of Ts'in, the ruler of which established the Chinese Empire in the middle of the third century, and proclaimed himself first Emperor in 221 B.C.

Knife
Money of
Ts'i.

For numismatics, the state of Ts'i during this period of contention is far the most important. The most widely known currency of Ts'i at that time is the *knife-money*, which consisted in a sort of billhooks, some seven inches long, curved, and the handle terminating in a ring. The shape was that of an implement of husbandry in bronze, of which a rude specimen is exhibited in the Chinese Gallery of the South Kensington Museum. The state of Ts'i was one of the most powerful of the Chinese states: it rose in 1122 B.C., and was one of the last which resisted the ever-growing state of Ts'in, as it was not subdued before 224 B.C. It covered what is now a large part of Northern Shantung and Southern Tchih-li, and always exercised an important influence in the empire. We remember that the financial institutes of the Tchön dynasty were established by the first Duke of Ts'ü. The population of this region has been conspicuous for its intelligence and boldness; and in the *She-King* the praises of female beauties are all sung for ladies of Ts'i. The merchants of Ts'i, with their enterprising tendencies and the incitement of the sea-trade, always displayed a daring

which proved most useful to the progress of their countrymen. This interesting feature is revealed to us by their knife-coinage, which gives proof of the extent of their commercial relations. The legends of the knife-coins bear positive testimony to the associations which existed between several towns of the Ts'i state, among themselves, as also with towns of other states. We do not know by whom these issues were really made, whether they were cast by order either of the communities in partnership or otherwise, or of associations of



KNIFE MONEY.

traders independent of the communal administration.

The knife-currency did not outlive the submission of the states of Ts'i and Wei and their absorption by that of Ts'in, which started a new currency. It ceased to be recognized as the ordinary money, and took refuge in out-of-the-way places outside the borders of China. Though we have no intermediary proof of its continued existence, for lack of information we cannot help connecting with it and considering as a survival of the old practice, still existing in the present century among the Khamti and Sing-Pho tribes on the south-west

borders of China, of using small square iron *dhas* or knives as currency. The very name of these *dhas* is obviously connected with the Chinese *tao* or knife-money, and speaks for itself.

Leaf
Money.

A sort of descendant of the older weights, known as slips for weight, or leaf-money, received a greater development than the knife-money. The latter were too large to be the common and popular medium of exchange in a country where the exigencies of life were so small and so cheap that every man needed 1,000 pieces of money or a little more a year; the equivalent of which in our money of the present day should be about eight shillings, which was a sufficient income for a man in China in the third century B.C. In the second half of the fourth century, the King of Tchao (a state to the south of the modern Tchih-li and Shan-si provinces) granted to Tchang-y the use of saddle-money: another name for leaf-money. All the leaf-money of that period may be classed in two divisions, one with square, and the other with pointed feet. They bear on the obverse the name of the place where they were issued, and generally on the reverse a serial figure. The twenty and odd towns whose names occur were scattered all over the various states, but were mostly situated in the states of Ts'i and Wei. These two states fought to the last against their absorption by the powerful state of Ts'in; it is clear that the multiplication of their money during that period of warfare was for the purpose of helping and maintaining their struggle. Their rude workman-

ship, and the simplifications of characters drawn by ignorant hands, exclude any possibility of their being the produce of a state coinage. The signs of the legends are abbreviated so loosely, in defiance of all principles of orthography, and they offer so many variants, that we may be sure that they are the work of private individuals among the people.

The leaf-money did not die out altogether with the foundation of the Chinese Empire; it lingered in obscure corners, and was not extinguished by the state currency issued by the Ts'in dynasty. Gold
Currency.

Of the early gold currency we have very little to say. It could not be in frequent use in a country where life was so cheap, and it was restricted to the purchase of jewels or presents from the princes and wealthy people. Except in the financial arrangements of the Tchou dynasty as established by the great Duke of Ts'i, we hear only of one historical instance of the use of the 1 inch cube of gold, or *kin*, weighing one pound, which had been made the standard.

In the fourth century B.C. we read of an *yh* of gold, but we know nothing more of it. It was probably a weight of precious metal in the lump. Under the Ts'in dynasty, the *yh* was the unit for gold, and it was then equal to 20 *liang* in weight. When the Han dynasty arose, the Ts'in institutions were revoked, and the old cubic inch of gold or *kin* was again the unit as under the Tchou dynasty. A specimen of this curious money exists in the Cabinet des Médailles, at Paris,

and a great scholar, Ed. Biot, has tried (but in our opinion unsuccessfully) to ascertain by its weight the standard of the ancient Chinese.

STATE
COINAGE.

Ts'in
Dynasty.

With the Ts'in dynasty appears the first state mintage of the central government, the lineal antecedent of the present coinage. Of the gold currency we have already said the little that can be recorded. The copper money was round, with a square hole in the centre: "round as the sky, square as the earth." The pieces were substantially the same as those of the Tchou dynasty as far as their regular weight is concerned, and their multiples were in correct proportion to the unit; their weight agreed with that inscribed upon them. They were marked *Pan-liang*, or half-*liang*, equivalent to the eighth part of a *kin*-weight. All that were formerly used as mediums of exchange—gems, pearls, tortoise-shell, cowries, silver, tin, etc., etc.—were no longer recognised as equivalent for currency in the official transactions. The purpose of the founder of the empire, Ts'in Shi Hoang-ti, was to effect a thorough assimilation of the various and rather heterogeneous parts of his dominion. His great achievements in this respect were, first, the substitution, for the varieties in the writing which had gradually arisen with the independence of the states, of a uniform style of writing, a sort of ideographical transcription which could be understood everywhere, despite the differences of the vernacular dialects; and, second, his attempts at establishing a State money. The burning of the books, which, indeed, has

deprived the world of many ancient records which nowadays would be invaluable treasures, and must therefore be deeply regretted, was nevertheless an act of political wisdom, in order to clear away the impediments by which the ultra-conservatives tried to check his steps. The new Emperor wished to withdraw, out of the reach of the literati and of the people at large, all the accumulated historical traditions, which by the numerous examples there recorded as patterns of conduct, offered too much ground for protesting against the spirit of innovation and progress which characterized his government.

The dynasty founded by this great ruler in 221 B.C. for "ten thousand years," finished in troubles and rebellions against an atrocious and tyrannical policy after only fifteen years, and was soon succeeded by the great *Han* dynasty, which during four centuries, with a slight eclipse of sixteen years, ruled the empire (204 B.C. to 190 A.D.).

The *Hans* considered the money of the Ts'in ^{Han} Dynasty too heavy and inconvenient, and they authorized the people to cast some *leaf-money*; while the gold coins were again of the weight of a pound, as under the Tchou dynasty. But the small copper pieces became gradually so thin, that indeed they deserved their nickname of elm-leaf money; and they were multiplied to such an extent that they lost their former value, and prices rose enormously. In order to mitigate this evil, the Empress Kao (185 B.C.) issued pieces of 8 *tchus*, equal in value to the half-ounce pieces (*pan-liang*) of the pre-

ceding dynasty; but it was found impossible to withdraw the elm-leaf money from circulation. Eleven years afterwards, the Emperor Wen-Ti, in the fifth year of his reign, tried to meet the difficulty by the issue of pieces having the same legend of *pan-liang* as before, but weighing only 4 *tchus*; and with the intention of rooting out false coining, he let the people cast their own money. The remedy, however, was insufficient, and some uneasiness was felt by the Emperor as to the influence of two feudal and almost independent states which issued their own money at a higher standard than that of the Chinese Empire.

Counter-
feiting.

The Emperor, in face of the failure of free mintage to check the counterfeiters, was obliged to forbid the people to cast their own money. Ring-Ti (156-140), the successor of Wen-Ti, was accused of having issued false gold coins; so that the people eagerly used the money introduced by the feudal state of Teng. False coiners practised their profession, and severe sentences could not stop the ever-growing evil. Wu-Ti, whose reign of fifty-four years was the most glorious of his dynasty, and whose generals carried the Chinese arms into the heart of Asia, issued, as a palliative measure, a money of real value, bearing the design of 3 *tchus*; but five years later it had to be suppressed again, because it was counterfeited and clipped, and pieces of 5 *tchus*, the standard of the dynasty, were then cast like those introduced by the Empress Kao. But all this was of

no avail against the counterfeiters, who issued such quantities of debased coin, that the genuine money nearly disappeared in some parts of the Empire, where pieces of cloth had to be used again as a medium of exchange. To face such an emergency it was decided to abolish all the then existing pieces which had a nominal value of half an ounce, but which in reality contained only 4 *tchus*, and to make new pieces of a weight of 5 *tchus*, furnished all around with a raised edge, in order to prevent the coins from being filed.

The third currency issued by order of the Emperor Wu-Ti consisted of three sorts of pieces of different size and form, made of tin and silver melted together, and of a nominal value far beyond the intrinsic. The first was round, with the design of a dragon, emblem of the Imperial dignity, weighing 8 *liang*, and its value was fixed at 3,000 pieces of money. The second was square, with the design of a horse, weighing 6 *liang*, and worth 500 pieces. The third was oblong, with the design of a tortoise, weighing 4 *liang*, and worth 300 pieces. The result of these fiduciary issues was very unsatisfactory; and their end was sad indeed. The very year of their issue they could no longer circulate, having been counterfeited on a great scale, not only by the people, but also by the state officials. No specimens of this fanciful mintage seem to be still in existence; and the representations of it which appear in some native books of numismatics were drawn from the written description, and the false specimens which appear

sometimes in collections were made from the drawings, for sale to collectors.

The
Shang-lin
Mint.

After twenty-three years spent in these unsuccessful essays, the Emperor Wu-Ti was at last convinced that the evil was more deeply rooted than had been hitherto supposed, and that some more adequate measures had become necessary. Accordingly, with these wise views, great changes were made in the monetary management of the empire. Every district and province was not allowed, as formerly, to cast its own money; and a state mint was established in the capital of the empire, under the direction of three members of the Shang-lin, or Academy, which had been created by the same Emperor in 138 B.C. All the metallic currency formerly in use was withdrawn and brought to the Shang-lin mint to be melted and recast; and all money not issued by that mint was considered illegal. The most skilled of the false coiners were engaged as workmen at the mint. The money issued was that of *5-tchu* pieces, which, being very well made, remained the standard, excepting temporary mintages, during seven centuries, or until the issue of the *Kai yuen tung pao*, the standard coin of the T'ang dynasty, in 622 A.D. These (*5-tchu*) pieces were of the now usual pattern—round, with a square hole in the centre, size 6 of Mionnet's scale, with a small raised edge all around. In consequence of the drastic measures taken by Wu-Ti, the counterfeiters had little chance during the latter part of his reign; and we do not hear of them during the

short rule of his successor Tshao-Ti (86-73 B.C.). However, in the long run, they proved to be stronger than the law of the land. Under the Emperor Suan-Ti (73-48 B.C.), in the years 71 and 60 B.C., it was necessary to make some official variations in the disposition of the design by the addition of a raised edge on both sides of the square central hole. But in the reign of the Emperor Yuen-Ti (48-32 B.C.) the counterfeiting had again reached a dangerous level; the forgers were more than 100,000 in number, and proposals were seriously discussed by the councillors of the Crown to abolish the metallic currency, and substitute in its stead grain, silk, cloth, and tortoise-shell as a medium of exchange; but it was difficult to make a sudden change in money which had been for a long time in circulation. The only means of checking the counterfeiters then was to issue from time to time new alterations, in the shape of additional lines or dots on the *5-tchu* pieces. We hear no more of changes in the mintage until the usurper Wang Mang, half a century later. From 217 B.C., when the Shang-lin mint began to cast money, till the beginning of the reign of the Emperor Ping-Ti (1 A.D.), the amount of pieces issued was 280,000,000,000. In the time of the Emperor Yuen-Ti (48-32 B.C.) the treasury of the Imperial palace amounted to 4,000,000,000, and the privy purse contained 1,800,000,000 pieces of money.

The most eventful period in the history of Chinese money is that of the eighteen years during ^{Wang} _{Mang.}

which Wang Mang the usurper ruled the country, first as Regent, and after as Emperor. He began to cancel the various decrees enacted by the Han dynasty, and reverted again to the money of the Tchou dynasty, the multiple and unit pieces, or, as the Chinese say, the mother and child, weighed in proportion to each other. He also made again what he supposed to have been the pieces of Ring King of the Tchou dynasty, and he reintroduced the knife-shaped money. It is easy to judge how far these revived shapes were different from the originals when we compare the knife-shaped money of his issues to actual specimens of the older currency. The so-called knives of Wang Mang have but the name in common with their originals; they are half as long and much thicker, while the ring at the end of the handle is replaced by the shape of a thick piece of money with rim and central square hole.

Revival of
Knife
Money.

When the usurper took actual possession of the Imperial throne (9 A.D.), he was afraid of all that would remind the people of the eclipsed dynasty. As the name of *Lin*, the founder of the dynasty, contained the characters *kin* ("metal"), and *tao* ("knife"), Wang Mang feared that his own knife-money would record the name of its founder (an apprehension which later on proved to be well grounded), and he decreed the abolition of the two sorts of knives and of the *5-tchu* pieces. He substituted new sorts of currency of gold, silver, tortoise-shell, cowries, and copper. Of the tortoise-shell and cowries thus revived

we have already spoken. The gold piece was, of course, in imitation of the ancient rule of the Tchou dynasty, and was called *kin* (pound), with a value of 10,000 copper pieces. In silver there were two pieces of different values based on a unit called *liu* (= 8 *liang*); their difference consisted only in the quality of the silver, and their value was 1,580 and 1,000 *cash*. As to the shape of this gold and silver money, we know nothing, and no specimen is known to exist.

The copper money received the name of *pu* by a revival of the oldest name used in the state of Ts'i previously to the financial Institutes of the Tchou dynasty, when *pu* (or cloth) was the principal medium of exchange in this region.

In A.D. 23, the usurper Wang Mang was murdered, and the second Han dynasty began to rule. The currency of the country was in frightful disorder; the last issues of Wang Mang were no longer accepted, because they existed only in counterfeit, and the old *5-tchu* pieces were in such small numbers that cloth, silk, metals, and rice were all used as currency, every individual making the most of them. However, Kwang Wu-Ti, the new Emperor, was not able, through the difficulties of the situation, to cast money before 40 A.D., and the pattern then used was that of the *5-tchu* pieces, the standard currency of the Han. The only modification subsequently made was the addition on the reverse of four straight strokes from the corners of the central hole to the outside rim. Some iron *5-tchu* pieces had been cast during the

Revised
Han
Dynasty

troubles at the end of the last reign, two being equivalent to one of copper.

Division
of the
Empire.

No other currency than the copper *5-tchu* pieces was issued till the end of the Han dynasty (220 A.D.), and the ensuing division for over fifty years of the empire into three kingdoms, Shuh, Wei, and Wu,—except small copper pieces issued in 190 A.D. by the last Emperor, Hien-Ti, to supply the *5-tchu* pieces; for which, as the necessary quantity of copper was not available, he seized many copper objects and statues, especially those of Fei-lien or Fong-pöh, the God of the Winds, who had incurred his curse.

Wei.

Four hundred years of monetary troubles and disorders had not convinced the rulers of the necessity of a sound currency. The King of Wei, in the north, thought that the best means of avoiding all these difficulties was to suppress the metallic currency altogether. Accordingly he abolished the *5-tchu* pieces, and ordered the people to use as currency only grain and silk. It was only opening another door to the counterfeiter, who, instead of casting bad metal, put moist grain in the bags, and wove thin and fleecy silk, so that after forty years it was necessary to return to the metal currency, and pieces of the time-honoured *5-tchu* pattern were cast again and put in circulation.

Wu.

In the state of Wu, the easternmost state of the three, matters were still worse. In 236 A.D. were issued large pieces (8 of Mionnet's scale), with the legend *Ta tsinen wu pöh* ("Great money

500”), and two years afterwards larger ones ($9\frac{1}{2}$), *Ta tsinen tang tsien* (“Great money worth 1000”), which were soon counterfeited on a smaller scale, so that it was deemed advisable to discontinue their mintage, and to melt them for implements. In 256 A.D. was issued another mintage, the pieces whereof in the ordinary pattern were worth 100 *tsien*, as indicated by their legend, *Tai-ping peh tsien* (“100 *tsien* [or *cash*] of [the period] Tai Ping”), which were of course soon imitated in a smaller size. This is the first example of the use of the name of the reign or *nien-hao* in the denomination of the money. The case is worth noticing, though only sporadic examples are still found during the following centuries. Gradually the custom became more general, and later on, from the T’ang dynasty up to the present day, the issues are distinguished by the names of the years during which they were cast. Since the Ming dynasty the *nien-hao*, which were generally changed several times during one reign, have been made uniform for the full length of a reign, and to a certain extent have become identified with the ruler’s own name, which is too sacred to be pronounced during his lifetime.

Though the shape of the currency was pretty well settled, we still find some eccentricities in the issues, partly due to the absence of the necessary quantity of metal. The Ts’in dynasty (265-317 A.D.), who re-united the empire under one sway, issued diminutive *5-tchu* pieces (size 2 of Mionnet’s scale), and two large iron pieces (sizes 9 and 15),

Later Ts'in
Dynasty.



worth 100 and 1,000, and so marked from top to bottom *Yh peh* and *Yh tsien* respectively, with *Yung ngan* ("Eternal peace") from right to left, denoting the name of the year (304 A.D.), when they were cast.

The Two
Empires.

During a period of one hundred and fifty years, the empire was nominally divided between two Emperors, though in fact it was for a while partitioned into nine different states, in seven of which the rulers had not assumed the Imperial title. Of course, money too was in great disorder, but it is worth noticing that the Tartars, who ruled in the northern part of the Yang-tse Kiang, while the lawful heir of the ancient Chinese had removed to the south, had much more sound views on financial economy than the Chinese themselves, with all their painful and costly experience.

Southern
Empire.

In the Southern Empire, under the Sung dynasty (420-477 A.D.), the Emperor Wen-Ti issued, in the year 430, copper pieces with a raised edge, and the design 4 *tchus*, which were equal in value to the old 5-*tchu* pieces; these pieces were hard to counterfeit, but very soon the old frauds began again. Hia Wu Ti's 4-*tchu* coins, with double legends (454-456), and his later 2-*tchu* pieces, were largely imitated, till they received derisive nicknames from the people, who called the thin ones "weed-leaves," and the small ones "goose-eye money."

At the beginning of the Liang dynasty (502-556 A.D.), in consequence of the closing of the state mints in sheer despair, money was so scarce that

it was employed only in the capital, Nanking, and its vicinity. In order to put an end to the fraudulent dealings of the money-changers, it was decided to supersede the copper money by iron money, and pieces bearing the legends *Ta Kih wu tchu*, *Ta Fuh wu tchu*, *Ta t'ung wu tchu*, in iron were put in circulation. *Ta t'ung* only is a name of year, being that of the years 527, 528. But this was the solution of a difficulty by the creation of a new one. Iron could be got much more easily than copper, and as the Government itself could not resist the temptation of making large profits, in ten years the iron money fell to one-third of its intended value.

Iron
Money.

When the Tch'en dynasty (557-587 A.D.) arose, among the confusions caused by the fall of the Liang, all the iron money was discarded, and the new princes reverted to the old *5-tchu* pieces, which, in respect to the still circulating "goose-eye money," had a relative value of 10 to 1.

While all these monetary troubles and wild experiments were going on in the Southern Empire, more sober views and sound economical principles had guided the Tartar rulers in the north. Indeed, their people, many of whom had settled in China, were not accustomed to metallic currency, and continued bartering as formerly, while the Chinese themselves used the former currency. It is only the seventh ruler of the Topa or Wei dynasty (386-532 A.D.), Hiao Wu-Ti, who directed in 477 A.D. that the salaries of all the state officers should be reckoned by

Northern
Empire.

money to be used henceforth in the empire, at the rate of 200 pieces of copper money, being equal to a piece of silk. The new money was inscribed *Tai Ho wu tchu*, or "5-*tchu* of (the period) Tai-ho." Fifty years afterwards false coining had impaired considerably this money, and new ones had to be cast with the legend *Yung ngan wu tchu*, or "5-*tchu* of (the period) Yung ngan" ("Eternal peace").

Sui
Dynasty.

Under the Sui dynasty (581-618 A.D.), who ruled again over the whole empire, attempts were made to revive the old standard pieces of 5 *tchus*, and new ones were cast with the new distinctive feature of a broader ring. But the innumerable issues of money which had been made in the preceding centuries in the various states, and which were locally still more or less in circulation, had caused the most hopeless confusion. The old standard was no longer trusted by the people, who were obliged in the North-Western provinces, west of the Hoang-ho river, to use money from the foreign countries of the West with which they had commercial intercourse.

MODERN
COINAGE.

T'ang
Dynasty.

With the great T'ang dynasty rises a great change for the better in the metallic currency of China. As we have seen at the end of the last period, the 5-*tchu* pieces, which had been the standard money for more than eight centuries, had fallen into such discredit that it was impossible even to retain the name. An entirely new money was established, bearing the legend *Kai yuen t'ung pao* (or "Current money of the newest

beginning"), weighing half as much again as the old *5-tchu* pieces (*i.e.*, $7\frac{1}{2}$ -*tchu*), with a size of 7 on Mionnet's scale. On the reverse was a nail-mark, which since then has spread all over the East, in Japan as in Corea and Annam. The origin of this curious mark is attributed to this incident: when the Under-Secretary of the Censors, Ngeu-yang-siun, who had himself written the characters of the legend, showed a model in wax of the new money, the Empress Wen-teh in touching it left on the wax the impression of her nail.

The new money was so good that it soon spread all over the empire, and has never been surpassed. The only reproach was that it was not issued in sufficient quantities to meet the requirements of the traders. This insufficiency led to several abuses. The pieces were counterfeited in a mixture of iron and tin by skilful forgers, against whose cunning the officials were powerless. The Emperor tried to abolish the new money less than forty years after its first issue, and caused the state-money to be provided with a new legend (*Hien K'ing tung pao*); but it was soon found impossible to go on with the new measure, which therefore was withdrawn. The only practicable means was to make terms with the counterfeited money, and to accept it in payment. In 666 A.D. a new money with the legend *K'ien fung* (the year-name) *tung pao*, was issued, to be accepted at the rate of one new for ten old pieces; but it soon became necessary to cast again the *Kai yuen* pattern. The current money always circulated by

Limited
Issue.

strings of 1,000, and thus the false pieces easily escaped detection. Under the reign of the Empress Wu (684-704 A.D.), therefore, it was forbidden to make payment in pieces strung together; they were to circulate loose, that the copper, tin, and iron pieces might be distinguished at once.

Dearth of
Metal.

All the efforts of the Government were of no avail. The issue in 758 A.D. of larger money directed to be the equivalent of 50 and of 10 of the old pieces, was received with contempt by the people, because they had no intrinsic value. The metallic currency was so poor that stones for grinding rice were received as money of an intrinsic value at the rate of 1 to 10 *cash*. The great difficulty to overcome, for the Government, was the scanty supply of copper. Though it had been forbidden to any individual to store up more than a fixed quantity of the precious metal, the amount in circulation had gradually diminished by the melting of the good copper pieces to make vases, implements, and Buddhist figures. In 809 A.D. private persons tried to circulate silver money by working the silver mines of the Wuling Mountains (south of Hunan province), but this was soon prohibited by the Government.

Confisca-
tion of
Buddhist
Treasures.

At last it was found necessary to regulate the use of the various metals. In 829 A.D. it was ordered that the Buddhist figures and ornaments, instead of being made of copper, should be made of lead, tin, clay, or wood, and the girdle either of gold, silver, Persian brass, or steel blued and

polished; only for mirrors, gongs, nails, rings, and buttons, copper might be used. This restrictive measure was only the prelude of another of a more sweeping character. By the natural reaction from the extraordinary favour bestowed upon Buddhism during the previous reigns, this religion, from its excessive development and the immoderate pretensions of its devotees, came under the displeasure of the Emperor Wu Tfung, who, in 845 A.D., decreed its suppression. 4,600 monasteries and 40,000 smaller temples were destroyed; 260,500 monks and nuns were compelled to return to lay life; more than 15,000,000 acres of land were seized, and 150,000 female slaves were freed. All the copper statues, mallet-bells, gongs, and clapper-bells were confiscated to the profit of the Government, and melted to cast money of the *Kai-yuen* pattern in about twenty-five mints, of which the name was marked on the reverse of the pieces. This new supply of money was received with great favour, because of the quantity of gold supposed by the people to have been mixed with the copper in the temples.

The continuation of the numismatic records of China is a tedious repetition of all that we have seen thus far. Insufficiency in the supply of copper, and struggles against the counterfeiters, with the additional complications of a double standard caused by the temporary casting of iron money under the Sung dynasty and of the development of the paper money, which, from small beginnings in 806 A.D., attained a paramount importance under

Yuen and
Ming
Dynasties.

the Yuen or Mongol dynasty, which cast very small quantities of copper-money. The Ming dynasty had also a poor mintage. It is only the present dynasty, the *Ta Ts'ing* Mandchu, who issued a regular and efficient mintage. From the time of the Ming dynasty the year-names have been reduced to one for each reign, so that the legend was henceforth the same for the whole mintage of a ruler.

Mandchu
Dynasty.

Regularity, however, is fairly secured in the issues from the mint of the Board of Finance in the capital, which are the pattern for the provincial mints; but the shrinking of the cool metal, when frequently repeated by the casting from moulds made from pieces and not from the pattern, produces sometimes a sensible difference, which is certainly not disadvantageous to some of the mint-masters. The authorized proportion of the alloys was, till 1722, copper 50, zinc $4\frac{1}{2}$, lead $6\frac{1}{2}$, tin 2; after that time the composition consisted of equal parts of copper and zinc. The obverse bears the name of the reign, read from top to bottom, and the words *tung pao*, or "current-money," from right to left. On the reverse the name of the mint in Chinese, or in Mandchu and Chinese, or in Mandchu only. There has been only one dark period in the present mintage, which for a time sunk to the lowest level during the great Tai-ping rebellion. The supply of the copper mines was stopped, and it was necessary to cast iron money, the worst of its kind that was ever made.

Silver circulates generally cast in ingots, in shape rudely resembling shoes, and for that reason called "shoe-silver." With the exception of two unsuccessful (because counterfeited) attempts in 1835 and 1856 to cast silver dollars, the Government has never issued silver money. In Fuhkien province and Formosa island, in 1835, a large issue of native dollars was made to pay the troops on that island; the legend was, "Pure silver for current use from the Tchang tchöu commissariat, (weight) 7 *mace* 2 *candareens*." At Shanghai, in 1856, the *taels*, or dollars, were of the same weight and purity (417.4 grs. troy); and besides the inscription in Chinese and in Mandchu, they had an effigy of the god of longevity on the head, and a tripod on the tail, to authenticate the official origin. Gold, cast into ingots, also circulates by weight.

Private individuals have sometimes caused silver to be cast as money; but they are generally satisfied to make, with European appliances, imitations of the Mexican and old Spanish dollars which are in currency; these, as they pass from hand to hand, are punched with the seal or stamp of the owner by way of endorsement; and when the marks are so numerous that there is no room left on the coin for more, they are melted.

The Japanese records tell us nothing about the JAPAN. means by which barter was carried on previous to the use of metals, which do not appear in the Empire of the Rising Sun before the fifth century A.D. These records claim to go back uninter-

ruptedly to 660 B.C., so that, even admitting that this far-reached date has to be shorn of several centuries, there is still a long lapse of time during which regular means of exchange might have been recorded.

Earliest
issues.

In the *Ko-ji-ki*, or "Records of Ancient Matters," lately translated with great learning and industry by Mr. Basil Hall Chamberlain, the first appointment of a treasurer is recorded during the reign of the Emperor Tza-ho Wake, or Ri-chin, who ruled from 400 to 405 A.D., according to the "accepted chronology;" and several, but not all, native numismatists of high standing attribute to his immediate successor, Midzu-ha Wake, or Han-zei, in 408 A.D., the issue of rough silver coins, flat and irregular disks, with a small round central hole bearing several marks of rude stars of six lines, and sometimes undistinguishable strokes, size 9 of Mionnet's scale. *Mu-mon-do-sen*, *i.e.* coins bearing no characters, are more often classified among the *Kitte-sen*, *i.e.* coins issued provisionally in times of disturbances and warfare, and therefore very coarsely made, being generally cut out of a plate of metal instead of cast.

The genuineness of the next coins in date, *i.e.*, copper coins issued in 683 and 690 A.D., has remained comparatively unchallenged. They consist in flat and irregular disks of copper, with a small round central hole; size, 6 of Mionnet's scale; marks, 4 crosses, each in a circle.

The working of metallic mines in Japan began very late—674 for silver, 708 for copper, 749

for gold; and previous to these dates the supply of metal by foreign importations was very limited, and if wanted, it was always easy to get the copper *cash* from China. It is only in 708 A.D., after the discovery of copper mines, that the Japanese began to cast regularly copper coins, of the same shape as had then been common in China for many centuries; viz., round, with a square hole in the centre. The Chinese system of the year-names, in Japanese *Nengo*, which had been adopted since 645 A.D., was followed in the legends of the coins. The discovery and working of copper mines was considered so important an event for the country, that the actual *Nengo* was changed into: *Wa-do*, i.e., Japanese copper; and the legend of the coins was *Wa-do-kai-tchin*, which may be rendered "New precious article of the *Wa-do* or Japanese copper period." The Japanese recognise the various issues of their coins by differences in the shape of a character, or of a stroke of a character, and so classify three issues of the *Wa-do* coin, all rather roughly cast, and a fourth issue of a superior workmanship, imitated from the celebrated Chinese *Kai-yuen* coin, to which it is like in form, shape of characters, and general appearance. Fifty-two years afterwards, in A.D. 760, there were so many forged *Wa-do-kai-tchin* in circulation, that the Government decided to issue a new coin, which was cast, with the legend *Man-nen-tsu-bo*, or "Current money of ten thousand years," in four issues. A silver coin, worth ten of the copper ones, was put in circulation the

Imitation
of Chinese
Money.

fame year, with the legend *Dai-bei-gen-ho*, "Fundamental money of the great tranquillity."

Ten other copper coins were successively issued in A.D. 765, 796, 818, 835, 848, 859, 870, 890, 907, and 958; gradually decreasing in size and workmanship till 870, and in material afterwards. The legends are often undecipherable, and in the last coins the metal is largely alloyed with lead; in some cases they are made entirely of the latter metal. The execution was careless, and the result was a rather disreputable money. These twelve coins constitute the antique coins of the country, or, as the Japanese call them,¹ *Jū-ni-hin* ("The twelve kinds"). After the coinage of the latter coin, in consequence of political troubles, no copper coins whatever were issued by the Central Government for over 600 years. Mintage in lead had begun as a secondary currency with the issue of 835 A.D., and down to 1302 the twelve antique coin patterns circulated in lead or in tin.

Lead
Currency.

Chinese
Coins in
Japan.

During this long interruption in the issue of copper coins, the Chinese *cash* supplied the deficiency. Coins of various dynasties of China formed the currency of Japan, especially coins of the Northern Sung, and the Ta-tchung, Hung-Wu, and Yung-loh coins of the Ming; these were largely imitated. We cannot be astonished to see them imitated to a somewhat large extent. For instance, the Chinese Sung coins of Siang-fu (1008 A.D.), Tien-Sheng (1023), Kia-yu (1056),

¹ W. Bramsen, *The Coins of Japan*, p. 7.

Ming-yuen (1032), Tcheping (1064), Hi-ming (1068), Yuen-fung (1078), Yüen-yu (1086), Shao-sheng (1094), Yuen-fu (1098), were moulded, and specimens cast and issued in quantities at Mito in the province of Fitatfu. In some cases new patterns were made, such as for the *Yuen-fung* coin with five varieties, two being moulded from the Chinese, and three made anew, which exhibits a finish and excellence of workmanship and bronze casting far superior to its Chinese original. All these issues were made by the private Daïmios in their own estates, and not by the Central Government; the metal was bronze, from the finest quality downwards, and sometimes a very poor alloy, and indeed lead. The *Yung-loh* (A.D. 1403) coin of the Ming was imported in not inconsiderable quantities, and largely imitated, not only from moulds of the coin itself, but also with new patterns. The device was used for gold, silver, white alloy, lead as well as for bronze, of which metal a larger coin was also issued.

With the period *Ten-sho* (1573-1591) com-
 mences a new era for Japan generally, as well as
 for its coins. Gold, silver, and copper coins
 began from thence to be regularly issued. In
 1587 the "Current money of Ten-sho," *i.e.* the
 coin inscribed with the legend *Ten-sho-tsu-ho*,
 was first issued. As might be expected after the
 art of coining had been so neglected for centuries
 at the capital, this coin is not well made; there
 seems to have been a very limited number of
 copper coins cast, while silver coins of the same

Ten-sho
Coinage.

design were issued in larger quantity, the consequence being that the former are at present much rarer than the latter. While in the twelve antique coins the characters of the legends were read $\begin{smallmatrix} 1 \\ 4 \\ 2 \\ 3 \end{smallmatrix}$ the order was changed into $\begin{smallmatrix} 1 \\ 4 \\ 2 \\ 3 \end{smallmatrix}$ in this new issue and the after ones.

The *Bun-roku-tsu-ho*, in copper and in silver, were issued in 1592, and followed in 1606 by the *Kei-tcho-tsu-ho* (four varieties and two sizes), in 1615 by the *Gen-na-tsu-ho*, with a serial of 1 to 30 on the reverse. The *Kwan-ei-tsu-ho*, first issued in 1636, presents an almost endless variety of issues, due to the fact that the coinage was continued for over 225 years, during which the device of the copper and iron coins of the Government remained unchanged, with the exception of a few coins of a higher denomination. All the copper coins issued from *Wa-do* up to the period of *Kwan-ei*, and all the copper and iron coins *Kwan-ei-tsu-ho*, excepting the large-sized issue with wave-like lines on the reverse, are of the value of 1 *mon*. The various issues of different sizes, cast of copper or iron, with or without inscription on the reverse, are classified to the extent of more than 1,000 by the native numismatists.

In 1768 coins of the *Kwan-ei-tsu-ho* pattern were issued in brass and afterwards iron, the reverse being covered with twenty-one wave-like lines; they were to be worth 4 of the ordinary *mon*. The number of the wave-like lines was afterwards reduced to eleven. The last coins of

this pattern were cast so late as 1860, in iron, of two sizes, a larger and a smaller one. In 1835 a large, oval, bronze coin, having on the obverse *Tem-po* above and *tsu-bo* below the square hole, was put in circulation; on the reverse, above the hole, are the two characters *To-biaku*, "worth 100," indicating that the value of the coin was 100 *mon*, and under the hole the mark of the mint. There are two varieties, diversified by the respective sizes of the rim and of the square hole.

Finally, in 1863, was issued the last regular copper coin, with the legend *Bun-Kiu-ei-bo*, "Everlasting money of Bun-Kiu (period)," with eleven wave-like lines on the reverse; worth 4 *mon*, three varieties; also cast in iron. Besides ^{Iron} _{Coinnge.} the iron coins cast by the central Government and current throughout the country, others were at various times issued by the feudal lords (*Daimios*) for the exclusive use of their own dominions, or by certain chief towns. The most peculiar of this class, frequently met with in the collections, is square, with rounded corners, inscribed *Sen-dai tsu-bo*, *Sen-dai* being the name of the dominion where this pattern was cast in several issues, of which the first took place about 1782. Space, however, fails us to speak of the various peculiarities of these feudal issues; or the iron coins cast in moulds of Chinese cast of a thousand years earlier; or the token-like pieces issued at Mito in 1866-68, with the couplet:

May your wealth be as vast as the Eastern Ocean,
And your age as great as the Southern Mountains.

Bean
Coinage.

We can only refer to the silver-copper, or billon coinage, of which the most curious examples are the silver-bean coins, shaped, as their name suggests, in various sizes, from a small pea to a large bean. Beginning in 1601 down to 1859, they are variously stamped; but the marks, which are made rather at random, are generally undecipherable. In 1711, etc., they were marked with the figure of Dai-Koku, the god of wealth, sitting on two rice bales, and holding his lucky hammer in the right hand, while the left grasps a sack of money slung over one shoulder. Each time Dai-Koku gives a blow with his hammer, the wallet he has by him becomes filled with money, rice, and other things, according to what may be desired.

Silver
Coinage.

In our rapid survey of the minor currency we have mentioned several of the regular issues of silver coins, cast on the same patterns as those in lower metals. By far the largest quantity of silver-money circulated under other shapes, viz., flat, square, oblong, plates, and lumps. Those of the first model were issued only during the last and the present centuries. The well-known small oblong coins in silver are quite modern, except the *T-shu* and *Ni-shu* pieces, issued since 1772. The *Itsi-bu* and *Ni-bu* pieces were issued till 1868; the former since 1846, and the latter since 1818. The *Ni-bu*, of golden appearance, presents an interesting peculiarity, while the other named coins were of silver of the usual fineness; the *Ni-bus* were of silver, with a per-

centage of gold added, which was brought out on the surface of the piece after the coin was made, by treatment with acids.

Silver in lumps by weight was most likely in use a long while before the evidence of the native collections and numismatic records begin. The oldest, four inches in length, stamped with crests, stars, etc., is ascribed to the period 1570-80. In the official records we hear of an issue of the same kind in 1601. Those of 1695 bear all around fragmentary stamps of Dai-Koku, the god of wealth. In 1706, 1710, 1711, 1714, 1736, 1820, 1859, large silver lumps of various sizes were in circulation, and bear marks which traditions understand to have been stamped at those dates; the evidence is of a most shadowy character, and rests on the mere assertion of the native writers.

Large plates of silver of various sizes, and smaller ones like the gold *Oho-bang* and *Ko-bang*, were also issued between 1570 and 1580, but the practice seems to have been discontinued. In some provinces silver was also used in lumps, from which bits of the required value were cut and weighed.

Previous to the adoption of the European Gold
Coinage. system in 1870, round gold coins had been very rare indeed. A gold coin of the ordinary shape, pattern, and square hole in the centre, was issued in 760, with the four Chinese characters *Rai-shing-ki-pao* as legend. One of the endless series of the *Kwan-ei-tsu-bo* legend, and another in imitation of the Chinese *yung-loh*, constitute the whole series

of the inscribed coins. Another well-known round coin is that issued in 1599 by Hide-yoshi, better known under his posthumous name of Tai-kanfama, the powerful general who instituted the high post of *taikun*. This rather small coin bears on one side six stamps, one central of the *Kiri-mon*, and on the other side five stamps of the same, with the minter mark in the centre. The *Kiri-mon*, or crest of the Mikado, is composed of three leaves pointed down with three flowers (one of seven and two of five petals) above, of the *Paulownia Imperialis*; it differs of the *Kiku-mon*, or Imperial badge of Japan, which consists of a conventional pattern of the chrysanthemum with sixteen petals, and must be distinguished from the badge of the Takugawa family, to whom belonged the later *Shôguns*, and which consisted in three mallow leaves within a circle, their points meeting in the centre. In 1727 divisionary pieces, or *itsi-bu*, *ni-shu*, and *is-shu* pieces so-called, were issued round, bearing on the obverse the *Kiri-mon* on the upper left side, with the examiner's stamp, and underneath, on the right hand side, the mark of the value; on the reverse are the mint stamp and the name of the year. The *ni-shu* and *is-shu* pieces have on the reverse the name of the particular kind of gold of which it is coined. By far the commonest shape of the gold coins issued since the sixteenth century to twenty years ago was that of oblong boards, with rounded angles, excepting for the small pieces. Their denominations were the following: *Oho-ban*, "large plate," of

10 ryo; *Goryo-ban*, "5 ryo board;" *Ko-ban*, "small plate," of 1 ryo; *Ni-bu*, "two parts," of $\frac{1}{2}$ ryo; *Itsi-bu*, "one part," of $\frac{1}{4}$ ryo; *Ni-shu*, "two shu," of $\frac{1}{8}$ ryo; *Ij-shu*, "one shu," of $\frac{1}{16}$ ryo. The largest were more than $6\frac{1}{2}$ inches in length, and the smallest $\frac{3}{8}$ of an inch. They were stamped with the *Kiri-mon* in round, fan-shaped, or pentagon compartments, severally repeated, the value, the stamp of the mint; and on the small ones is sometimes the date of issue. Besides these stamps, the large coins often bear several punches of the mint-examiner, testifying to their genuineness. Fees used to be charged by the duly appointed officers of the Imperial mint or treasury for certifying the value of the large ones, or *Oho-ban*; and, in order to have these fees paid often, they had recourse to the ingenious device of marking them so that the marks could easily be obliterated, and the plan of writing the requisite signs in Indian ink was adopted; in consequence, the pieces were always wrapped up singly in silk wadding and paper, and the greatest care taken in handling them to prevent the writing being defaced.





CHAPTER X.

MEDALS.



THE science of Numismatics has to deal not only with those metallic objects which have actually passed current as money, but also with the numerous specimens in the precious or other metals which are designated medals—specimens, that is to say, issued to commemorate some personage or event, but not employed as media of exchange. The application of the word “medal” to this class, in contradistinction to coins, is a recent one: Italian and French writers of the fifteenth and sixteenth centuries use *medaglie* and *médailles* to signify coins which, being no longer in circulation, are preserved in the cabinets of collectors as curiosities. Even in the last century our own word medal was so employed. The “medals” of the Roman Emperors, to which Gibbon often alludes in his notes to the *Decline and Fall*, are, of course, what we now know as coins; and Addison’s *Dialogue upon the Usefulness of Medals* is, for the most part,

The word
“Medal.”

a treatise on Roman Imperial coins. The Shilling of Elizabeth, which is made to relate its adventures in the *Spectator*, observes that at the Restoration it came to be "rather looked upon as a medal than an ordinary coin." In the present chapter we shall of course employ the word "medal" in the sense which it has now generally acquired.

An inquiry into the history of the medal need not lead us far back into antiquity. The Greeks had absolutely no distinct class of objects corresponding to our medals, while even their coin-types were only in rare cases of a commemorative character. The coin-types of the Romans, indeed, are often directly allusive to historical events, and the Romans issued a special series of metallic objects not intended for circulation as currency; but even these latter pieces (known to modern numismatists as the "Roman medallions") can hardly be considered as the actual prototypes of the modern medal. Between the latest Roman medallions, which are of the time of Honorius, and the first productions of the famous Italian medallists of the fifteenth century, there is a great chasm, and the medals of the new Italy are in no sense the descendants of the old. The first Italian medals must, indeed, be reckoned as a new artificial product of their time: the processes by which they are made are not those of the older coin or medallion engravers, and they are, at first, entirely unofficial in character. It is only by degrees that the medal becomes more or less official, and is employed to comm-

Italian
Medals.

morate important public events. The earlier specimens of Italian workmanship were not intended to commemorate events or even to do honour to illustrious men after their decease; they were destined rather to serve the purpose of the painted portrait or of the modern photograph. The noble families of the time welcomed with a natural eagerness this new art, which not only portrayed their features with all the power of painting, but which rendered them in a material which itself was *aes perenne*, and which was readily available for transmission from friend to friend.

Pisano.

First of these great creators of the medal, in time no less than in merit, stands Vittore Pisano of Verona, whose artistic activity in this direction belongs to the ten years 1439-1449. Pisano is known also as a painter (his medals often bear the signature "Opus Pisani pictoris"), and it is, no doubt, a circumstance having an important influence upon the beginnings of modern medallic art that he and most of his fellow-workers were not by profession engravers of coin-dies, but followers of the arts of painting and sculpture. The art of coin-engraving, which had attained to such perfection in the hands of Greek and even of Roman artists, had during the Middle Ages suffered a terrible eclipse. Artistic portraiture was dead, and even the task of producing mere likeness was essayed no longer: the bold relief of Greek coin and Roman medallion was emulated no more, and although in the fourteenth century an ornate and not unpleasing style had begun to

manifest itself on coin-reverses, it never passed the limits of decorative skill.

It was open, of course, to Pisano and his followers to take the processes of die-engraving as they found them—to accomplish what they could within such limitations—to give likenesses and life to the conventional heads of the obverse, and employ their taste and invention in improving the designs of the reverse. Trained, however, in the liberal school of painting and sculpture, they hesitated to pour their new wine into the old bottles. These medallists of the fifteenth century are distinguished above all other medallists by the largeness and freedom of their style; they required a yielding substance to work upon, and a broad space wherein to carry out their conceptions. For producing medals of great size and in high relief, the mechanical processes of die-engraving were at that time quite inadequate; and hence it is that all the early medals, and many of those produced in the sixteenth century, are not struck from dies, but cast from moulds. The first Italian medallists made their models from the life in wax—working, in fact, as did the sculptor of bronze who modelled in clay—and from these wax-models they prepared, by a careful and elaborate process, a mould into which the metal was finally poured. To Pisano himself about thirty extant medals have been attributed. They are distinguished (as indeed are all the works of the great medallists of Italy) by their splendid portraiture—portraiture of the highest kind, which

New
Process of
Casting
Medals.

not only reproduces faithfully the features of man or woman, but which also reveals character, and which delights especially to show character only in its nobler traits.

The medallic art of Pisano (and in an equal or less degree that of his contemporaries) is further distinguished by the excellence of its reverse designs—designs remarkable for originality, and for strength combined with grace, and which are never chosen at hazard, but selected for their peculiar fitness to adorn the circular field of a medal. As characteristic specimens of Pisano's work, let us mention the two famous medals, "Venator intrepidus" and "Liberalitas augusta," each bearing the head of Alfonso the Magnanimous—"Divus Alphonfus rex triumphator et pacificus"—and having as their reverse types admirable representations of animals: the one a boar-hunt, the other an eagle surrounded by a vulture and other inferior birds of prey. In the representation of animals Pisano took especial delight, and we often find them introduced in the reverses of his medals. As a rule, he does not attempt elaborate allegorical subjects; but his reverses often show some comparatively simple design, taken from ordinary life: thus a medal of his of Sigismondo Pandolfo di Malatesta, which has, as usual, a portrait of the prince for the obverse, shows Malatesta also on its reverse, this time as a full-length figure in armour.

This artist's turn for realism does not, however, preclude the production of several works inspired

by pure poetic fancy. A conspicuous instance of this may be found in the medal which he made for Leonello, Marquess of Este, on the occasion of his marriage in 1444. Just as the poet Spenser, when he wrote the *Prothalamion* of the noble Ladies Somersfet—"against their bridal day which



ITALIAN. PORTRAIT OF MALATESTA NOVELLO, BY PISANO.

was not long"—imaged, by a charming yet stately fancy, the subjects of his verse as swans, so the artist Pisano, playing on the name Leonello, portrayed his bridegroom as a lion. A little Cupid or winged genius of marriage stands holding out to the lion an unrolled scroll, whereon in musical characters is displayed the lion's marriage-song.

This design, which to a reader unacquainted with the original might seem too fanciful, is redeemed from being a mere *conchetto* by the noble figure of the lion and the graceful grouping. Another of Pisano's reverse designs, which shows the same qualities of stately grace and fancy, is that on the medal of Cecilia Gonzaga—"Cicilia virgo filia Johannis Francisci primi marchionis Mantue"—a lady who afterwards became a nun. Cecilia is represented sitting amidst a rocky landscape, with her hand resting on the head of the unicorn who reclines beside her, while above them hangs the crescent moon. But to dwell at length upon the reverses of Pisano's medals, or upon his medallion portraits of "many nobles and personages renowned in arms or distinguished for learning," we should need an entire chapter.

Followers
of Pisano.

Matteo Pasti, who worked from 1446, was the first distinguished medallist who followed in the train of Pisano. He, too, was a native of Verona, and probably a pupil of his great fellow-citizen, whose influence on his style is traceable. Sperandio, who worked at the end of the fifteenth century, is also of the school of Vittore. He made numerous medals of the Estes, and of members of the Bentivoglio family, of Pope Julius II., and others. To the same century belong Giovanni Boldu, Guacciolotti, Enzola, and Melioli, as well as Lixignolo, Pollajuolo, and others, who have left behind them productions of great merit. After the first impulse had been given, the art had, indeed, soon spread to the northern cities of Italy

—to Mantua, Padua, Milan, Brescia, etc.—and, somewhat later, to the cities south of the Apennines.

The Italian medallists of the sixteenth century worthily carry on the work begun by their forerunners of the fifteenth. Though with them something of the large treatment of the earlier masters is lost, we find, on the other hand, the greatest variety in the designing of reverses, remarkable skill and delicacy in the execution of details, as well as abundant examples of excellent portraiture. A difference of a technical kind distinguishes the new medallists from the old; for with the beginning of the sixteenth century there came in the art of striking medals from engraved dies, and though all the medals of larger module continued to be cast till the end of the century, the smaller specimens, which then began to multiply, were struck by the new process. We observe, indeed, that most of the medallists of the sixteenth century were also goldsmiths or gem-engravers, and were thus led naturally to the engraving of dies. To say even a few words of each of the many remarkable medallists of this century would be impossible here, but the very names of Pomedello and Spinelli, Cellini and Francia, Romano and Caradossi, Valerio Belli, Leone Lioni, Pastorino of Siena, and the rest, are full of charm to every lover of Italian medals. Of these names, we can only select but one or two, referring the reader for more detailed notices to the works of Friedlaender, Armand, Heiss

and others, and to the British Museum *Guide to the Italian Medals*, by Mr. C. F. Keary.

Francia.

Francia, who is conspicuous as one of the earliest of this band of medallists, began life, as is well known, as a goldsmith, and acted for some time as director of the mint of Bologna. Vafari has a very interesting passage on his work as a medallist:—"That in which Francia delighted above all else, and in which he was indeed excellent, was in cutting dies for medals; in this he was highly distinguished, and his works are most admirable, as may be judged from some on which is the head of Pope Julius II.—so lifelike that these medals will bear comparison with those of Caradosso. He also struck medals of Signor Giovanni Bentivoglio, which seem to be alive, and of a vast number of princes who, passing through Bologna, made a certain delay when he took their portraits in wax: afterwards, having finished the matrices of the dies, he despatched them to their destination, whereby he obtained not only the immortality of fame, but likewise very handsome presents." Medals by Francia of Julius and Bentivoglio may still be seen in the British Museum. The medals of another renowned goldsmith, Benvenuto Cellini, are not very numerous. He was Master of the Mint to Pope Clement VII., for whom he made two portrait-medals.

Benvenuto
Cellini.

Pastorino.

In connection with portraiture, the name of Pastorino, who died about 1591, is of especial interest, as he devoted himself with ardour almost entirely to this branch of art, and attained in it

wonderful success. The number of his medals is considerable, for (as Vafari says of him) "he has copied all the world, and persons of all kinds, great nobles, distinguished artists, and persons of unknown or of low degree." His delicate and beautiful style makes him especially happy in his portraits of women and children. To the reverse-designs of the medals of this century we cannot refer in detail; but we must dwell for a moment upon the reverse of a medal in the British Museum by Annibale Fontana (1540-1587)—a work of singular charm and beauty, though contrasting strongly in its picture-like character with the reverses of the early medallists. It represents Hercules in the Garden of the Hesperides. The hero is standing in calm dignity beside the Tree, his right hand outstretched to pluck its golden apples: its dragon guard he has already slain, and is trampling the carcase beneath his feet. In the distance are seen the towers and cities of men in the light of the setting sun.

It must be added that very few medals in the Italian series commemorate *events*: their chief strength lies in portraiture, and their interest may be reckoned rather artistic than historical, although, as has been truly said, "in this astonishing series of portraits the chief actors in the tragedies and comedies of those times pass before us, their characters written in their faces." After the close of the sixteenth century the medals of Italy cease to be of high artistic merit. But we ought not to forget to mention that a continuous

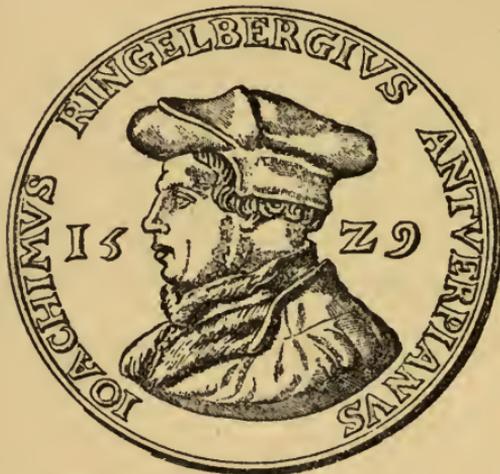
series of contemporary Papal portraits, from Nicolas V. onwards, is to be found on the medals. Probably the most interesting piece in this class, from an historical point of view, is the famous medal struck by Gregory XIII. to commemorate the Massacre of St. Bartholomew in 1572. Three specimens of this medal are exhibited in the British Museum; the first in silver, by Federigo Bonzagna, shows as its obverse type the bust of the Pope himself, and on the reverse—*tantum religio potuit*—is represented the Destroying Angel holding sword and cross, while around are men and women wounded, or dead, or flying before her. The legend is “Ugonottorum Strages,” and the date 1572. A second example is in bronze, gilt; a third, in bronze and slightly varied, is thought to be of more recent date.

Massacre
of St.
Bartholo-
mew.

German
Medals.

The Italian Renaissance did not fail to make its influence felt in the medallic art of other European countries, and it was from Italy that Germany derived the practice of casting medals, through Peter Fischer, who had studied art beyond the Alps. But although a foreign importation, the German medal soon acquired a distinct and national character. The minute and patient industry which distinguished German workers in other branches of art displayed itself likewise in their medal-work. Their productions are also thoroughly German in their tendency to avoid idealizing any representation; but if they lack the nobility of the Italian masters, they derive true force and artistic value from their

naïve and vigorous realism. Among German medallists two names are especially conspicuous—one, Heinrich Reitz, the goldsmith of Leipzig, who worked for the Electors of Saxony, and in whose productions has been traced the influence of Lucas Cranach—the other, Friedrich Hagenauer of Augsbürg, whose style is of greater simplicity than that of Reitz. The medals executed by the goldsmiths of Nuremburg and Augsbürg



GERMAN. PORTRAIT OF J. RINGELBERG.

are extremely numerous; most of them are unsigned, and it is even difficult to separate the productions of the two great centres, though Nuremburg has a distinct superiority, due to the influence of Albert Dürer. Many of the earlier German medals are struck, for the Germans had made considerable improvements in the appliances for striking money: those specimens which are cast have been delicately chased after the casting.

The sixteenth century is the period during which the production of German medals attained its highest degree of excellence. As an original art, it may be said to have perished in the commotions of the Thirty Years' War. Comparatively little attention has been paid to the German series by numismatists and collectors, but it deserves much more than it has yet received.

French
Medals.

The medallic art in France had a longer lease of life than in Germany, and its history is of considerable interest. In spite of a few early native efforts, this art may be said to have come into existence under the auspices of Italy. Thus we find that the first medal with a French effigy, that of Louis XI., was executed at Aix by an Italian, Francesco Laurana. Another early medal, representing Charles VIII. and Anne of Brittany, cast at Lyons in 1494, was the work of a French goldsmith, Louis le Père, who had been instructed in the medallist's art by Nicolo Spinelli, of Florence. Yet it must be observed that this medal is French rather than Italian in character, and the medals made by native artists under Louis XII., for instance those of Louis and Anne of Brittany (1500), and of Philibert le Beau and Margaret of Austria (1502), are evidence to prove that a purely French school might have maintained itself with very little Italian assistance. Under François I., however, very distinct encouragement is given to Italian artists; and Benvenuto Cellini made for this sovereign a medal with the regal effigy. Another Italian artist of merit,

Giacomo Primavera, also worked for France, and has left medals of Catherine de Medicis, the Duke of Alençon, the poet Ronfard, and others.

The medals of the latter half of the sixteenth century, partly struck and partly cast, are generally unsigned: the series of large medallions representing Henry II., Catherine de Medicis, Charles IX., and Henry III., has been attributed to Germain Pilon, a medallist who worked for Charles IX. With the accession of Henry IV. begins the fine suite of medals by Guillaume Dupré, an artist ^{Dupré.} whose productions well continued the traditions of the large cast medals of Italy. He worked both under Henry IV. and Louis XIII., and, like the Italian masters of the fifteenth century, undertook, and accomplished with great success, the casting of his own medals. All the more important personages among his contemporaries were eager for the privilege of being portrayed by Dupré; and in his medallions, as a French writer has remarked, though with a *souffçon* of exaggeration, he has left posterity "une galerie iconographique de son temps, dont la beauté et l'intérêt égalent ceux des oeuvres analogues de la Renaissance italienne. Personne n'a donné au portrait numismatique un accent plus vivant et plus vrai; personne n'y a mieux rendu la physionomie d'une époque." After Dupré, fine medals still continued to be produced by the two chief French medallists of the seventeenth century—Claude Warin, engraver to ^{The} the mint at Lyons, who died in 1654, and Jean ^{Warins.} Warin, the Engraver-General of Coins, whose death

took place in 1672. The long series of medals of Louis XIV. is historically interesting, though it too faithfully reflects the pompous and conventional art of his time.

Napoleonic
Medals.

The first medals of Napoleon, struck between 1796 and 1802, are of indifferent execution and design. Under the direction of Denon they gradually improved, and at length attained to some degree of artistic merit; the heads of Napoleon by Andrieu and Droz, from the bust by Chaudet, are interesting portraits touched with ideal beauty, and some of the reverses of the Paris mint medals are not inelegant compositions. Perhaps the most historically important medals of the Napoleon series are those connected with the proposed invasion of England. In May, 1804, Napoleon took the title of Emperor, and in July of the same year he left Paris to visit the camp of Boulogne and the "Army of England." About this time there was struck a medal which is still extant and not uncommon. Its obverse shows the head of Napoleon, and the reverse a male figure squeezing a leopard between his legs while he throttles it with a cord. The legend relates to the flotilla of *prames*, or flat-bottomed boats and gunboats, which was to transport the invading army across the Channel:—"En l'an XII. 2,000 Barques sont construites." The invasion being certain to succeed, nothing further was needed but a commemorative medal. There is reason for believing that in this year a die was actually prepared for a medal recording the success of the invasion to be struck in London

when the army arrived there. No specimens struck from this die are now known to be extant, but the British Museum possesses an electrotype which is believed to reproduce the reverse of the original die. Its type and inscriptions have reference to the victorious “*Descente en Angleterre.*” A powerful naked figure has in his grasp a human being whose body ends in a fish’s tail. It is the Hercules Napoleon destroying the sea-monster England. In the exergue may be read the modest legend, “*Frappée à Londres en 1804.*” A French medal with a similar type was really issued two years later, but the “*Descente*” and “*Frappée*” legends have disappeared thereon in favour of the consolatory Virgilian quotation: “*Toto divisos orbe Britannos.*”

*Frappée à
Londres.*

We have yet to speak of the medals of Holland and of those of our own country. Both the Dutch and English series, which in the seventeenth century run much into one another, are attractive rather because of their historical interest than by reason of their artistic merit. By historical interest we do not, however, mean to imply that the medals furnish us with any very large amount of information not derivable from the documentary sources, but that they have the property of making historical events more vivid and more easily realized. Though medals can be regarded only as a slight and imperfect index to the history of any notable epoch, yet something, at any rate, they do show of its very form and pressure. They are the mirrors which the men of the past delighted to hold up to

*Dutch
Medals.*

every momentous event—or to every event which seemed to them momentous; and they are mirrors, moreover, which have the magic power of still retaining the images which they originally reflected.

The Dutch medals of the sixteenth century, though not without occasional picturesqueness, are certainly not the finest of their time; they have, however, much historical interest—a feature which they share with those of the succeeding



DUTCH. PORTRAITS OF C. AND J. DE WITT.

century. In point of art the seventeenth-century pieces are poor, and they convey their political allusions by means of elaborate allegory. Many of the portraits on Dutch medals are noteworthy, especially those of William the Silent, Prince Maurice, the De Witts, Van Tromp, and De Ruyter. In the reign of our William the Third, the Dutch series fills up gaps in the English; indeed, several Dutch medallists worked at different periods for English monarchs.

The medallic series of England opens in the reign of Henry VIII., and the pieces at first are commemorative chiefly of persons, and not of events. Of Henry himself there exists a bust executed after a portrait of Holbein. Another of Henry's medals proclaims his supremacy over the Church:—"Henricus octavus fidei defensor et in terra Ecclesiae Angliae et Hiberniae sub Christo caput supremum." The King's supremacy was confirmed by Parliament in 1534, though this

English
Medals.



ENGLISH. PORTRAITS OF PHILIP AND MARY, BY TREZZO.

medal was not made until 1545. The most interesting portrait medals of this time are those of Anne Boleyn, Thomas Cromwell, and Sir Thomas More. More's medal bears the date 1535—the year of his death—and its reverse typifies him as a cypress-tree which has fallen beneath the stroke of an axe, and derives therefrom a more fragrant odour, "Suavius olet." These early specimens, as well as the portrait medals of Edward VI., are cast and highly chased. Of Mary and her husband we have, besides other representations, admirable half-length figures on a

medal produced at Madrid by the Italian artist Trezzo, while in the service of Philip. This medal is the first signed one in the English series; and the fact that it is executed by a foreign artist is (unfortunately for the artistic credit of England) not to be noted as exceptional, but as the rule; for the history of our English medallists is, as we shall see, to a great extent the history of the medallists of other nations.

Elizabeth.

The reign of Elizabeth, especially, has to show some excellent portraits by foreign artists. Chief amongst these in beauty and in interest is the medal of Mary Queen of Scots, made and signed by the Italian Primavera, who worked chiefly in the Netherlands, and, as was noted before, in France. Its date is uncertain, but it was probably produced about the same time as the Morton portrait, which was painted in 1566-67, during Mary's imprisonment in Lochleven Castle. Modern casts of this medal have a reverse added to them, but the original is merely a copper plaque. Stephen of Holland, who lived for a short time in England, executed, chiefly in the year 1562, a number of meritorious portrait-medals (cast and chased), principally, however, of private persons. Personal medals of the more celebrated men of the Elizabethan era are unhappily not very numerous. The less important public medals of this reign may well be passed over in favour of those which commemorate the defeat of the Armada. Several of these pieces, somewhat varied in their details, are still in existence, and as they are of oval form, and

*Armada
Medals.*

furnished with ring and chain for suspension, it is probable that they were distributed at the time as decorations. It is interesting to note that the most important do not bear the signature of any foreign medallist, but are, as it would seem, the work of native artists. Foremost of all the Armada medals must stand the large gold piece with the full-face bust of Elizabeth, encircled by the legend, "Ditior in toto non alter circulus orbe." The obverse of this extraordinary medal, with its high relief, its brilliant colour, its almost barbaric profusion of dress and ornament heaped upon the crowned and sceptred Queen, seems to speak the very euphuism of medallic language, and is wonderfully characteristic of its age. The reverse is conceived in a sopher manner. It represents a bay-tree standing upright and alone upon an island; its leaf also is not withered, nor has the lightning power to scathe it; for, says the legend, "Non ipsa pericula tangunt." The allusion is, perhaps, not merely to the defeat of the Spaniards, but also to the calm which had followed the political complications of the time—"the Queen of Scots was dead; James of Scotland had been conciliated; France and the Vatican were baffled." Upon another medal of this period, England is represented as an ark floating, "faevas tranquilla per undas."

Two other medals of Dutch workmanship, but also referring to the great victory over Spain, have still to be noticed. One of these, which was probably struck by the direction of Prince Maurice,

represents the Church standing firm on a rock amid stormy waves; the other has a quaintly expressed allusion to the confederation formed against Elizabeth by the Pope, the King of Spain, the Emperor, and others. Upon one side are seen the Kings of the earth and the Rulers taking counsel together, but "Blind"—as the Latin superscription warns them—"Blind are the minds of men, yea, and their hearts are blind;" the floor of their council-chamber is covered with spikes, for "Durum est contra stimulos calcitrare." On the other side, the Spanish fleet is driven on the rocks, and around are the words of the Psalmist, quoted from the Vulgate: "Thou, O Lord, art great, and doest wondrous things; Thou art God alone!"

James I.

The medals of James I. are principally Dutch, and for the most part commemorative of individuals. It should be noticed that several of them are struck from dies, and not cast, for at this period the invention of the screw for striking coins and medals was coming into general use. Mechanical improvements of this kind, though very important to the mint-master, who naturally wishes to turn out his coinage with all possible rapidity and neatness, will be found both in England and other countries to exercise a baneful influence upon the art of medals. The hard and machine-made look of the later struck medals too often contrasts unfavourably with the older specimens produced by casting and chasing. To this reign belong the engraved, or, as they should rather be called, the stamped medals of

Simon Passe, the clearness and neatness of whose style is very pleasing. Simon, who was the son of Crispin Passe, the artist of Utrecht, resided for about ten years in England, and executed a large number of prints and portraits. His medals are chiefly of James and the royal family. Amongst the few public events commemorated in this reign are the peace with Spain, concluded in 1604; and the alliance of England, France, and the United Provinces against Spain. Curiously enough, the Gunpowder Plot, which made so deep an impression on the popular mind, is alluded to only on a single medal, and that a Dutch one. This medal shows a snake gliding amongst lilies and roses, and has the legend, "Detectus qui latuit."

The most noteworthy medals of the early part of the reign of Charles I. are those by Nicholas Briot, who, after being chief engraver to the Paris mint, came to England and executed a number of dies and moulds for medals as well as dies for the English coinage. With the outbreak of the Civil Wars there begins in England a period of exceptional medallic interest. During the lifetime of the King, and under the Protector and Commonwealth, medals continued to be made in extraordinary numbers. Some of these record the successes of the contending parties, but most of them are what are called "badges"—medals, that is to say, of oval form, furnished with a ring for suspension, so that they could be worn by partisans of either side. When we reflect that these pieces were once worn by the actors in that memorable drama, they can

hardly fail to awaken a peculiarly pathetic interest; and this interest is much enhanced by their frequently presenting the portraits of the remarkable men of the time. Among the portraits appearing on badges, or on other medals, are those of Essex, Fairfax, Waller, Laud, Strafford, and many others. A portrait of Hampden exists on a small engraved plate, but it is probably of eighteenth-century work. Of Cromwell and his family there are a considerable number of medals, as well as of men conspicuous among the opponents of the King, such as Ireton, Lilburne, Lambert, and Thurloe. The battle of Dunbar is commemorated by a medal showing on its obverse a bust of Cromwell in armour, and, in the distance, the battle itself, with the inscription, "*The Lord of Hosts*—[watch-]word at Dunbar, Septem. y. 3, 1650." The reverse displays the Parliament assembled in one House with the Speaker. To the time of the Commonwealth also belong several "Naval Rewards" (1650-1653), especially the fine medals struck by the Parliament in commemoration of Blake's victories over the Dutch, and distributed to various officers. A special medal records the saving of the *Triumph*, Blake's flag-ship: "For eminent service in saving y. *Triumph*, fiered in fight w^h. y. Duch in July, 1658." Another medal of this time has engraved upon it an English legend which has a quaint Latin ring about it: "Robt. Blake. Born 1598. Died 1657. He fought at once with Ships and Castles. He dared the Fury of all the Elements, and left an Example to Posterity which is incredible; to be imitated."

Common-
wealth.

Blake
Medals.

The continuous and eager demand for medallic badges and memorials at the epoch of the Civil Wars was fortunately well responded to by three artists of merit. Two of these, the brothers Thomas and Abraham Simon, who employed ^{The} ~~Simons.~~ their talents on the Parliamentary side, have produced some of the most praiseworthy works in the English series: their place of birth is uncertain, but they may, perhaps, be claimed as Englishmen. Thomas is especially well known, from his connection with the English mint. He it was who made the splendid coins with the effigy of the Protector, and the famous "Petition Crown" for Charles II. The two brothers produced medals singly or together: in the case of a joint work, it seems that Abraham Simon made the model, while Thomas, a more skilful engraver, did the after-chasing. The Simons appear to have first made their models in wax, and then to have cast the medals from moulds in sand. Most of the medals of Charles I. and the Commonwealth are cast and chased. Thomas Rawlins, the medallist ^{Rawlins.} who worked for the King, and who, after the death of Charles, prepared several commemorative medals for the adherents to the royal cause, cannot be spoken of so favourably as the Simons. "His work was above the average, but it failed to attain the sharpness and high finish which characterize that of his two rivals." These three artists continued to work after the Restoration; but the chief medallist under Charles II. was John Roettier, the son of a native of Antwerp. His medals,

which are always struck, are sharply cut, and show good portraits as well as some picturesque reverse designs. Another medallist who worked in Roettier's style, though with inferior skill, was George Bower, or Bowers. Both Roettier and Bower continued to produce medals under James II. and, for a time, under William III.

Charles II. An abundance of loyal medals heralds and inaugurates the Restoration. Charles is the sun just rising from the sea—the leafless branch soon to recover greenness—the Jupiter destroying the prostrate giants. Many royalist badges, with the effigies of the King and his father, probably belong to this time: one interesting medal was doubtless bestowed upon some faithful follower of Charles, for it bears the royal head, and is inscribed with the words, “Propter strenuitatem et fidelitatem rebus in adversis.” The important engagements between the naval powers of England and Holland receive due illustration from medals—English, Dutch, and French. The Popish Plot, and especially one incident—the murder of Sir Edmund Berry Godfrey—have left curious medallic evidences of themselves. The medals relating to Godfrey all contain some satire upon the Jesuits. On one remarkable specimen in pewter, two monks, styled “Justice-killers to his Holiness,” may be seen strangling Godfrey, overlooked by the Pope, who is himself prompted by the devil. This is “Rome’s revenge, or Sr. Edmwndberry Godfrey mvrthered in the pope’s slaughter-hovs.” One other medal of this reign—that struck by Bower

Popish
Plot.

to celebrate the acquittal of Shaftesbury on the charge of high treason—ought not to be here omitted. Its obverse has a portrait of the Earl, and the reverse is a view of London, with the sun appearing from behind a cloud; the legend being “Laetamur: 24 Nov., 1681.” This is the piece alluded to with so much bitterness in Dryden’s satire called *The Medal*:

“Five days he fate for every cast and look,
Four more than God to finish Adam took;
But who can tell what essence angels are,
Or how long Heaven was making Lucifer.”

The reign of James II., though brief, has left ^{James II.} its traces on a considerable number of medals. Many of these are Dutch, but they are perhaps more full of interest than the official English medals. The Rebellion of Monmouth is recorded on several specimens. One, by the Dutch artist Jan Smeltzing, bearing on the obverse the head of the Duke (“Jacobus infelix Dux Monumethensis”), has a reverse of unusual power—the ghastly decapitated head of the ill-fated leader lying upon the ground, and spouting blood—“Hunc sanguinem libo Deo Liberatori.” The attempt of James to restore Catholicism by the repeal of the Test Act, and the Trial of the Seven Bishops, receive full illustration, especially the latter event. One well-known medal gives portraits of Archbishop Sancroft and the Bishops; another, showing seven stars in the midst of the starry heavens, likens the seven prelates to the “sweet influences” of the Pleiades — “Quis restringet Pleiadum

delicias." On yet another specimen, also bearing medallions of the Bishops, a Jesuit and monk are seen vainly endeavouring to undermine the Church, a visible edifice built on a rock, and supported by a hand from Heaven—"The Gates of Hell shall not prevail!" The other medals of this reign refer chiefly to the flight and abdication of the King, and to the birth of the young prince James. Some of the Dutch medals make very broad hints as to the legitimacy of the youthful heir. On one curious specimen Truth is seen throwing open the door of a cabinet, within which stands a Jesuit, thrusting through a trap a child with pyx and crown. The name of this supposititious child whom Father Petre or some other papist is thus introducing to the world is inscribed on the cabinet door—"Jacobus Francis Edwardus."

The Flight of James to France conducts us naturally to the medals of the Stuart family, of whose members there are several memorials of this kind: many of them, no doubt, were struck for presentation to the faithful adherents who visited the princes in exile, or were issued to awaken interest in the Jacobite cause. One very pleasing medal of this series represents the youthful Charles Edward and his brother Henry; before Prince Charles is seen a star, with the motto "Micat inter omnes." Another medal—clearly, however, not issued by the Stuarts—ridicules the two attempts of the Elder Pretender to recover the English throne in 1708 and 1716; a map of

Great Britain and Ireland, with ships at sea, is displayed, with the dates of the expeditions, and the legend "Bis venit, vidit, non vicit, flensque recessit." A very interesting evidence of the still unfurnished "right divine" is to be found in the *touch-pieces* of the Stuart family. Previous to the reign of Charles II., the English sovereigns who touched for the cure of the scrofula or "King's evil," distributed to their patients the current gold coin, called the *angel*. Under Charles II., who exerted his healing powers for an enormous number of persons, and under James II., a medalet having types somewhat similar to those of the *angel* was substituted, and hung round the neck of each afflicted person by a white ribbon. The Elder Pretender claimed the power as well as his two sons Charles and Henry, and of all three, touch-pieces are still extant, Henry's bearing the style of Henry IX. The practice of touching was repudiated by William III., and finally abandoned by George I. Between these reigns, however, Anne had been willing to dispense the royal gift of healing, and one child whom she touched (unhappily without result) was Samuel Johnson, whose golden touch-piece, pierced with a hole for suspension, may still be seen in the British Museum. Boswell records that when, on one occasion, Dr. Johnson was asked if he could remember Queen Anne, he answered that he had "a confused, but somehow a solemn, recollection of a lady in diamonds and a long black hood."

The medallic series of William III. and Anne

William
and Mary.
Anne.

is due to the efforts of Dutch artists, the most active of whom were the Smeltzings, Luder, Hautsch, Boskam, and Croker, a German. Their medals are in many respects similar to those of John Roettier, but in lower relief; the reverses are generally pictorial and full of minute detail, which is not always ineffective, though their art on the whole is decidedly poor and conventional. The medals of William and Anne form the completest suite in the English series; any attempt, indeed, to give a detailed reference to the events which they commemorate would amount to a repetition of nearly all the best-known events in English history, from the Battle of the Boyne to the Peace of Utrecht. This continuous record is far less satisfactorily kept on the accession of George I. At that time there were few medallists in England, and the Dutch no longer worked for us. The medals of his successor are, however, commemorative of several important events, especially of those connected with the War of the Austrian Succession, the Jacobite Rebellion of '45, and the Conquest of Canada. The long reign of George III. is very fertile in medals, of which a good typical selection, down to the Battle of Waterloo, may be seen in the public exhibition galleries of the British Museum. The greater portion of the medals of this period which are there exhibited relate to "the struggles of England with her American colonists, and to the subsequent wars with France, Spain, and Holland by sea and land. Following these are several pieces commemorating some of

George III.

the battles of the Peninsular War, and bearing portraits of the principal generals, and a few personal medals of statesmen and others."

Some remarks must be made on the interesting class of English *Military and Naval* medals. Military and Naval Medals.

The Armada medals already mentioned may be regarded as the earliest of the class, though it is not known that they were issued by authority. In 1643 Charles I. granted medals to soldiers who distinguished themselves in Forlorn Hopes, and many of the Royalist and Parliamentary "badges" were doubtless intended as military rewards. Under the Commonwealth were distributed the Dunbar medal, and those for Blake's victories over the Dutch, to which we have already alluded. After the Restoration, military awards were occasionally issued, though the first decorative medal, subsequent to the Commonwealth, having a ring for suspension, seems to be that for the battle of Culloden.

"Again a long period elapses during which no decorative medals appear; and the victories of the Nile and Trafalgar would have remained unrewarded, but for the munificence and patriotism of two Englishmen, Alexander Davison and Matthew Boulton. In 1784 the East India Company acknowledged the services of its troops by awarding a medal for the campaign in the West of India, an example which originated a custom; and from that time, as long as India remained under the control of the Company, medals were awarded for all subsequent wars. The first medal Indian Medals.

Waterloo. issued by authority in England in this century, is that given for the Battle of Waterloo. It was conferred, by order of the Prince Regent, upon every officer and private present at that battle; but no acknowledgment was made of all the brilliant engagements in the Peninsular War till 1847, when a medal was issued for military services between the years 1793-1814. At the same time a corresponding medal for naval services was ordered to be struck for all naval engagements during the same period. Since the accession of her Majesty, medals have been awarded for every campaign, as well as others for 'meritorious service,' 'long service,' etc. Besides the medals issued by the authority of the Crown and those of the East India Company, there are a number of Regimental medals. These were struck at the expense of the officers of the regiments, for distribution among those who served under them; but this custom ceased when a public acknowledgment was made of the services of the army."¹

Present
Condition
of Medalllic
Art.

The unsatisfactory condition of the medallic art in England—and, indeed, in other European countries—during the present century has been justly lamented; and its productions must too often seem to those acquainted with the best efforts of Greek engravers and Italian medallists to be almost beneath contempt, and beyond the power of criticism to amend. To entertain a very sanguine expectation as to the future of this interesting branch of art would, perhaps, be some-

¹ H. A. Grueber, *Brit. Mus. Guide to Eng. Med.*, p. xv.

what rash; but there is certainly no real ground for denying the possibility of reinstating it in something of its pristine glory. If England cannot at once produce a school of medallists worthy to rank with the Italians of the fifteenth and the sixteenth centuries, her artists may at least begin by shaking themselves free from the trammels in which they have moved so long and so painfully. And, first, there is certainly needed a reform in the present rapid but deadly mechanical processes of producing medals: the old Italian casting and modelling in wax—the old Greek method of striking with the hammer on “blanks” not uniformly flat, must reassert their superiority—especially in the case of medallic portraiture. To create original artists—to breathe a new spirit into medal designs—particularly the reverse designs—is, indeed, a far more difficult task; yet at least it is possible to abandon in part, if not entirely, that classicism, or rather pseudo-classicism, which so long has reigned supreme. To press the inhabitants of Olympus into the service of modern art—to employ the symbolism of that Pagan creed outworn to commemorate a Methodist Conference or a Medical Congress, is in itself a confession of weakness; and though a few artists, such as the Wyons, may in a few instances claim to have imparted congruity and gracefulness to their classical designs, yet in the majority of modern medals these two essential qualities are suggested only by their absence. Modern students of art, and even the ordinary English public, have begun to display an

Classical
Designs.The
Wyons

increasing desire to know and enjoy the remains of classic Art, but it is to the fountain-head that they rightly turn—to Hellas, and not to Rome. It is useless, therefore, at this time of day, for a medallist to hope to conjure with mythological puppets of Hercules and Mars, and well-nigh impossible for him to awaken by classic emblem and divinity the sympathies of an audience for whom the wings of Victory have long lost all their swiftness, and the steeds of Neptune all their animation. Yet it must be observed that already there are signs of better things. Among the medals exhibited to the public at the British Museum will be noticed a series by Professor Legros of large portrait medallions of several eminent Englishmen—Carlyle, Tennyson, Gladstone, and others—which have been in the first instance modelled in wax, and then transferred to metal by casting. This new departure in medallic portraiture is very interesting, and the boldness of style in the medals in question is worthy of praise; but it must be remarked that the heads are treated sketchily, and seem to have little or no affinity to the material in which they are wrought. The Italian artists, on the contrary, even when working in their boldest and largest style, were never sketchy, but paid attention to finish, especially in the details of the hair and eyes, and even in such a minor matter as the lettering of the legend. Professor Legros has not at present essayed what is, perhaps, the still more arduous task of producing original designs suitable for the *reverses*

Legros.

of medals. In the reverse of the Ashantee War medal, designed by Mr. Poynter, we must admire ^{Poynter.} the originality which makes itself independent of the conventional classic reverses—here, at last, we have real negroes, and real English soldiers in their helmets, introduced in a scene which is in itself a genuine artistic expression of the event intended to be commemorated by the medal. Yet even here it must be objected that the artist shows the want of a familiar and practical acquaintance with the material in which his ideas are expressed; and his design, though it would probably expand into an excellent painting, is far too confusedly picturesque for the limits of a small medal, and as a reverse-design cannot therefore be pronounced successful.







INDEX.

- A
BBASY
 Khalifs, 168
 'Abbâsy Khalifs of Egypt, 186
 'Abd-El-Mejîd, 173
 'Abd-El-Melik, 165
 Aberystwith mint, 135
 Abgarus, 151
 Account, money of, 96
 Achelous, 23
 Addifon, *Dialogue upon Medals*, 30, 236
 Adrian I., 80
 Adze currency, 200
 Aegina, 11, 15
 Aelfred, 106
 Aelia Capitolina, 155
 Aelian, *Var. Hist.*, 12
 Aeneas and Anchifes, 54
 Aes grave, 43
 Aes rude, 42
 Aes signatum, 43
 Aeschylus, *Agam.*, 27
 Aethelred, 106, 115
 African company, 138
 Aghlab, Beni-l-, 169
 Agnel, 89
 Agonistic types, 22, 27, 28
 Agrigentum, 26
 Ahfanâbâd, 186
 Akbar, 186, 188
 Akcheh, 173
 'Alam, Shah, 189
 Alençon, Duke of, 249
 Alexander the Great, 27
 Alexander's portrait, 28, 29, 31
 Alexander's successors, 143
 Alexander II. of Scotland, 114
 Alexander III., 114
 Alexandrian coinage, 67
 Alfonso VI., 86
 Alfonso the Magnanimous, 240
 Alfred. See "Aelfred."
 Almohades, 170
 Almoravides, 81, 170
 Altar, 53
 Altun, 173
 'Aly, 165
 Amphora of Dionysos, 19
 Amphictyonic council, 17
 Amyntas, 178
 Anatolia, 172
 Anchifes, 54
 Ancus Marcius, 54
 Andalusia, 167
 Andrew, St., 115
 Andrieu, 250
 Angel, 112
 Angelots, 112, 120
 Anglo-French currency, 111
 Animals on Pisano's medals, 240
 Anne, 139
 Anne Boleyn, 253
 Anne of Brittany, 248
 Ant coins, 196
 Antigonus, 153

- Antioch, 150
 Antiochus I. and II., 143
 Antiochus IV., Epiphanes, 144,
 150
 Antiochus VII., 153
 Antiochus Hierax, 150
 Aphrodite (Aegina), 15
 Aphrodite Melainis (Thespiae),
 19
 Apollo and Artemis (Camarina),
 24
 Apollo (Delphi), 17
 Apollo, Didymaeon, 15
 Apollo (Philip's gold money), 27
 Apollo (Tanagra), 19
 Apulia, Norman Dukes of, 86,
 87
 Aquitaine, 111
 Arab coinage, 152, 156 *et seq.*
 Arab merchants, trade with, 85
 Arabia, 151
 Arabic currency in the North,
 84
 Aragon, 86, 109
 Ardesfir, 148
 Ardit, 111
 Aretas, 151
 Arethusa, 25
 Argenteus, 60
 Argos, 11
 Ariadne, 22
 Ariarathes, 32
 Aristophanes, *Birds*, 16
 Aristoxenus, artist of Metapon-
 tum, 37
 Armada medals, 254
 Armenia, 150
 Arfaces, 144, 146
 Arfacidae, 145
 Arfames, 150
 Art, early Saxon and Irish, 104
 on Charles I.'s coins, 135
 on English coins, 117, 118
 on medals, 237 *et seq.*
 on Mohammadan coins, 156
 Artaxerxes or Ardesfir, 148
 Artaxias, 151
 Artavades, 151
 Artemis (Ephesus), 21, 40
 (Camarina), 24
 Artists' names, Greek, 36
 As libralis, 43
 Asia, Central, 145
 Minor, 20
 Western, 150
 Asiatic divinities, images of, 40
 Atâbegs, 169
 Athens, 15
 coins copied in Arabia, 152
 Atrebates, 102
 Attalid Kings of Pergamus, 31
 Attambulus, 152
 Augsberg medals, 247
 Augur, 21
 Augustus's new copper coinage,
 50
 Augustulus to Charlemagne, 77
 Aurelian, 151
 Aureus, 50, 59, 61
 Ayyûbis, 169
 Azes, 178
 BABER, 186
 Babylonian influence on China,
 191
 Bacchus, 20
 Bactria, 144
 Bahmany Kings of Kulbarga,
 186
 Bak tribes in China, 191
 Baliol, John, 114
 Barter, 10
 Bartholomew Massacre, medal,
 246
 Base money, 84, 115, 126, 131
 Bawbee, or bas pièce, 131
 Bean coinage, 232
 Beaufort family, 122
 Bee (Ephesus), 21
 Beeston Castle, 135
 Belli, 243
 Beneventum, 80
 Bentivoglio, 242, 244
 Berbers, 170, 172
 Berenice, 29
 Beybars, 160
 Bezant, 81
 Billhook currency, 200
 Billon, 115, 131
 Biot, E., 208
 Bird on ear of corn, 23
 Bishops, Trial of the Seven, 261

- Black Prince, 111
 Blancs, 112
 Blake, Admiral, 258
 Blondeau, 138
 Boar of Artemis, 14
 Boldu, G., 242
 Boeotia, 18
 Bonnet pieces, 130
 Bonzagna, F., 246
 Bordeaux, 111
 Boskam, 264
 Bower, G., 260
 Boyne, battle of the, 264
 Brabant, 108
 Braçteates, 84, 90
 ornaments, 103
 Brandenburg, Elector of, 94
 Briot, Nicholas, 136, 257
 Bristol, 135
 British coins, 100
 BRITISH ISLANDS, coins of, 99-
 140
 Britons, 100
 Roman mints, 102
 Saxons, 102
 Sceat, 103
 Normans, 107
 Groats, 108
 Gold currency, 109
 Anglo-French coinage, 111
 Scottish coinage, 113
 Ireland, 115
 Henry VII., 116
 Shilling, 117
 Art on English coins, 118
 Increase of wealth, 119
 Sovereign, 120
 Henry VIII., 120
 Crown, 120
 Wolfey's groat, 122
 Edward VI., 123
 Mary, 123
 Elizabeth, 124
 East India Company, 125
 Debasement of coinage,
 127
 Tokens, 128
 Scotland, 129
 James I., 131
 Denominations, 133
 Charles I., 134
 BRITISH ISLANDS, Siege pieces,
 135
 Commonwealth, 136
 Simon's portraits, 137
 Guinea, 138
 James II., Irish coins, 139
 Anne's farthing, 140
 Broad, 132
 Bronze money of James II., 139
 Bruce, Robert, 114
 Brutus, 52
 Buckler of Boeotia, 19
 Buddhist emblems, 181
 monasteries and temples, 222
 saints, 179
 Bull, human-headed, 21
 Bull and Horseman, 181, 185
 Bullion exchange, 10
 Buweyhîs, 168
 Byzant, 81
 Byzantine gold used by Arabs,
 164
 Byzantine iconography, 86
 imitations, 82
 types on Mohammadan
 coins, 169
 CABUL, 178, 181
 Caepio, 51
 Caesar, Julius, 50
 Calais, 111
 Calligraphy, 157, 186
 Camarina, 24, 25
 Campania, 21, 45, 50
 Camulodunum, 102
 Canada, conquest, 264
 Canute, 106
 Cappadocia, 32
 Caradoffo, 243
 Carausius, 102
 Carlisle, 135
 Carolingian coinage, 82
 Castile, 86
 Casting medals, new process, 239
 Cellini, Benvenuto, 243, 248
 Celt, shoulder-headed, 201
 Centaurs, 20
 Cententionalis, 60
 Cerberus, 21
 Ceylon, 182
 Chaife, 111

- Chamberlain, B. Hall, 226
 Characene, 152
 Charles I., 134, 257
 Charles II., 137, 259, 263
 Charles VIII. of France, 248
 Charles IX., 249
 Charles XII. of Sweden, 94
 Charles Edward Stuart, 262
 Chester, 135
 Chimaera, 21
 CHINA AND JAPAN, coins of,
 190-235
 CHINA, 190
 Shell currency, 192
 Earliest metal currency,
 195
 Mines, 197
 Tchou dynasty, 198
 Adze currency, 200
 Ring weights, 202
 Leaf weights, 203
 Period of Contending
 States, 203
 Knife money of T'f'i,
 205
 Leaf money, 206
 Gold currency, 207
 State coinage, 208
 T'f'in dynasty, 208
 Han dynasty, 209
 Counterfeiting, 210
 The Shang-lin mint, 212
 Wang Mang, 213
 Revival of knife money,
 214
 Han dynasty revived, 215
 Division of the Empire,
 216
 State of Wei, 216
 State of Wu, 216
 Later T'f'in dynasty, 217
 The Two Empires, 218
 Southern Empire, 218
 Iron money, 219
 Northern Empire, 219
 Sui dynasty, 220
 Tang dynasty, 220
 Limited issue, 221
 Dearth of metal, 222
 Confiscation of Buddhist
 treasures, 222
 CHINA, Yuen and Ming dynasties,
 224
 Mandchu dynasty, 224
 JAPAN, 225
 Earliest issues, 226
 Imitation of Chinese
 money, 227
 Lead currency, 228
 Chinese coins in Japan,
 228
 Ten-flo coinage, 229
 Iron coinage, 231
 Bean coinage, 232
 Silver coinage, 232
 Gold coinage, 233
 Chinguiz Khan, 172
 Chlovis II., 79
 Chohân horseman, 185
 Christian Europe, coinage of,
 74-98. See "Europe."
 Christian figures on Mohammedan
 coins, 169
 Christian types on Roman coins,
 63
 Chutiâ Nâgpûr, 201
 Cities perforated on Parthian
 coins, 147
 Cities, views of, 96
 Civic coinage of Greece, 14
 Clement VII., 244
 Cleopatra's portrait, 33
 Club of Herakles, 19
 Cnut, 106
 Colchester, 102, 135
 Commius, 102
 Commonwealth, 136, 258
 Company, African, 138
 East India, 125, 139, 265
 South Sea, 140
 Constantine, 61
 Constantinople, 173
 Consular series, 48
 Contorniates, 69
 Contending States in China, 203
 Copper coinage in England, 128
 India, 184
 China, 195
 Cork, 116, 135
 Counterfeiting in China, 210
 Cowry currency, 192 *et seq.*
 Cranach, L., 247

- Crenides, gold mines, 100
 Crescent of Aphrodite, 19
 Crimiffus, 24
 Croker, 264
 Cromwell, O., 137, 258
 T., 253
 Cross, forms of, 83, 90, 108, 114,
 136
 Crown, 120
 Cubes of gold in China, 198
 Culloden medal, 265
 Cunipert, 79
 Cunobelinus, 102
 Curtius, E., 13
 Cypraea, 193 *et seq.*
 Cyprus, 142

 DAI-KOKO, god of wealth, 232
 Daïmios, 229, 231
 Damascus, 165, 167
 Damietta, conquest of, 160
 Danish kings, 106, 107
 Dante, *Paradiso*, 88, 126
 Daric, 141
 Date on English coins, 123
 David I. of Scotland, 113
 Davison, A., 265
 Debasement of coinage in Eng-
 land, 126
 Scotland, 114, 131
 Germany, 84
 Declaration type, 134
 Decussis, 43
 Dehli, 171, 186-189
 Dekhan, 186
 Delphi, 16
 Delphian games, 23
 Demeter (Metapontum), 23
 Demetrius Poliorcetes, 31
 Demi-chaïse, 111
 Demy, 115
 Denarius, 48, 81, 96
 Denier, new, 81, 111
 Denmark, 85
 Denominations of English coins,
 133
 Roman coins, 42 *et seq.*
 Denon, 250
 Desiderius, 79
 Diana, 53
 Die-engravers, 36, 119 *note*

 Dînâr, 167
 Diocletian's reforms, 60
 Diogenes Laertius, vii., 2, 70
 Dionyfus, 31
 (Thebes), 19
 Hebon, 22
 Dioscuri, 50
 Dirhem, 167
 Divine honours, 29
 Dollar, 98
 Dolphin of Apollo, 18
 of Syracuse, 25
 of Tarentum, 22
 Double hardi, 111
 Double fovereigns, 120
 Dove of Aphrodite, 14
 Drachmas, Attic, 16
 Dragon, 211
 Dragon's-head coins, 196
 Drogheda, 116
 Droz, 250
 Dryden, *The Medal*, 261
 Dublin, 116, 135
 Ducats, 87, 97, 130
 Dunbar, battle, 258
 Dupondius, 43, 50
 Dupré, 9, 92, 249
 Dürer, A., 93, 247
 Durham, 122
 Dutch medals, 251, 256, 258,
 259, 261

 EADWARD THE CONFESSOR,
 107
 Eagle, two-headed, 169
 on thunderbolt, 50
 of Zeus, 14
 Eagles devouring hare, 26
 Ear of corn of Demeter, 23
 Earth god, 21, 22
 East, early coins of, 141
 Eckhel's *Doctrina Numorum*
 Veterum, 1
 Economic fallacies, 126
 Ecu, 97, 130
 Edeffa, 151
 Edinburgh, 135
 Edward I., 108
 Edward III., 108, 109
 Edward, the Black Prince, 111
 Edward IV., 112

- Edward VI., 118, 123, 253. See "Eadward."
- Egberht of Wesssex, 106
- Eleazar, 154
- Elis, 37
- Elizabeth, 124, 254
- Elm-leaf money, 209
- Eloi, St., 79
- Emperors, Roman, portraits, 5
- England, portraits, 92, 93. See "British Islands."
- England, army of, 250
- Engravers, English, 119 *note*
- Greek, 36
- Enzola, 242
- Epaminondas, 39
- Ephesus, 20, 39
- Eraſmus, 128
- Effex, 258
- Este, Leonello, Marquess of, 241
- Estes, 242
- Esterlings, 109
- Ethelred. See "Aethelred."
- Etruria, 21
- Eucratides, 175, 177
- EUROPE, CHRISTIAN, coinage of, 75-98
- Divisions of the subject, 75
- Special interest of each, 76
- I. Augustus to Charlemagne, 77
- Lombards, 79
- II. True Mediaeval period, 80
- New Denarius, 81
- France, 82
- Germany and Italy, 83
- Braſteates, 84
- Spain, 85
- Iconography, 86
- III. Return to gold, 87
- Fiorino d'oro, 88
- Fourteenth century, 90
- IV. Renaissance, 90
- Portraits, 91
- V. Modern coinage, 93
- Sovereigns' portraits, 94
- Medallic character, 95
- Views of cities, 96
- Weights and denominations, 96
- Evaenetus, a coin engraver, 36
- Exeter, 135
- Eybek the Mamlûk, 161
- FAIRFAX, 258
- Fairs at Delphi, 17
- Fallacies, economic, under Tudors, 126
- Farthing, 108
- Farthings, Queen Anne, 140
- Fâtimy Khalifs, 170
- Federal currency of Boeotia, 18
- Fineneſs of Mohammadan coins, 167
- Fiorino d'oro, 88
- Fischer, P., 246
- Five-guinea piece, 138
- Flanders, 108
- Fleurs-de-lis on Scottish coins, 114
- Florence, 88, 92
- Florin, 88, 97
- in England, 110
- Fontana, 245
- Forgers, Chinese, 210
- Formulas, religious, 8
- France, English coinage in, 111
- Mediaeval coinage, 82
- portraits, 92
- Francia, 243, 244
- François I., 248
- Franconian emperors, 83
- Francs, 112
- Franks, 78
- Frederick II., 87
- Frederick the Great, 95
- Frederick of Bohemia, 94
- French crusade to Egypt, 160
- GAMES, sacred, on coins, 41
- Metapontine, 23
- Olympian, 23
- Pythian, 17
- Tarentine, 22
- Gaulish coins, 100
- Gelas, 24
- Gems, 197
- engravers of, 4
- Genealogy on Muslim coins, 159
- George I., 139, 263
- George II., 139

- George III., 139
 George noble, 121
 German portraits, 93, 246
 representations of Saints, 87
 Germany, mediaeval coinage, 83
 Gibbon's use of the word
 "medal," 236
 Godfrey, Sir Edmund Berry,
 260
 Gods on coinage, Greek, 14
 Gold coins of Rome, 45
 Gold cubes and currency in
 China, 198, 207
 Gold currency in England, 109
 Gold mines of Crenides, 100
 Gold and silver mines of Pan-
 gaeum, 20
 Gonzaga, Cecilia, medal, 242
 Gorgon's head on Etruscan
 coins, 21
 GREEK COINS, 3, 10-41
 Bullion money, 10
 Invention of coinage, 10
 Methods of coinage, 11
 Scientific value, 12
 Types, 12
 Religious aspect, 12
 Temple coinage, 13
 State coinage, 14
 Aegina, 15
 Delphi, 16
 Boeotia, 18
 Ephesus, 20
 Etruria, 21
 Campania, 21
 Magna Graecia, 22
 Agonistic types, 22
 Metapontum, 23
 Sicily river gods, 23
 Water nymphs, 25
 Eagles devouring hare, 26
 Philip and Alexander, 27
 Portraiture, 28
 Alexander's successors, 28
 Portraits, Alexander, etc., 30
 Realism, 31
 Mithradates, 32
 Cleopatra, 33
 Styles of art and sequence,
 33
 Die engravers, 36
 GREEK COINS, Magistrate's
 names, 38
 Greek cities of Asia, 40
 Imperial coinage, 39
 Kings of India, 175
 types on Indian coins, 177
 types in Persia, 142
 Gregory XIII., 246
 Griffin, 21, 50
 Groats, 89, 108
 Gros, 111
 Groffi, or gros, 89, 91
 Groffus, 97
 Grueber, H. A., *Guide to Eng-
 lish Medals*, 266
 Guaccioliotti, 242
 Guadaleta, battle, 78, 85
 Guienne, 111
 Guiennois, 111
 Guinea, 138
 Gujarat, 181, 186
 Gun-metal, 139
 Gunpowder Plot medal, 257
 Gupta Kings of Kanauj, 180
 Gustavus Adolphus, 94
 HADES on Etruscan coins, 21
 Hadleye, Robert de, 108
 Hadrian, 63
 Hagenauer, F., 247
 Hainault, 108
 Half-crowns, 120'
 Half-demy, 115
 Half-groat, 112
 Half-guinea, 138
 Half-moon money, 200
 Half-plack, 115
 Half-quarter-sovereign, 124
 Halfpence and farthings, 108
 Half-shekel, 153
 Half-sovereigns, 120
 Hamdânîs, 168
 Hampden, 258
 Han dynasty, 195, 196, 209, 215
 Hardi, 111
 Hare devoured by eagles, 26
 Harp of Ireland, 136
 Harrington, Lord, 129
 Hat, Cardinal's, 122
 Hautsch, 264
 Heliocles, 177

- Helios, 178
 Hempen cloth, 192
 Henry II., 107
 Irish coinage, 116
 Henry VII., 117
 Henry VIII., 118, 120, 253
 Henry [IX.] Stuart, 263
 Henry II., III., and IV. of
 France, 249
 Heraclius, 164
 Herakles, 179, 245
 of Croton, 3
 on Philip's coins, 28
 at Thebes, 19
 shield of, 19
 Heraldic devices on English
 coins, 121
 Heraus, 178
 Hermaeus, 178
 Herodian family, 154
 Herodotus, 11
 Hesperides, 245
 Hia dynasty, 192
 Himyarites, 152
 Hindu types, 181
 Hipparis, 24
 Hippostratus, 178
 Historical value of Mohamma-
 dan coins, 158, 161
 Roman money, 5, 6
 Greek coins, 12
 Hohenstaufen dynasty, 87
 Holbein, 253
 Holland, medals, 251, 254, 258
 Holy Carpet, 159
 Honorius, 103
 Hulagu, 187
 Huns, 144
 Hypsas, 24

 ICONOGRAPHY, 64, 86
 Ides of March, 53
 Idrisis, 169
 Ikhshidîs, 169
 Ilkhâns of Persia, 171
 Imitations, 152, 227
 Imperial coinage of Rome, 59
 Incuse square, 11
 India, 144
 INDIAN COINS, 175-189
 Greek Kings, 175
 INDIAN COINS, Scythic Kings
 178
 Native Kings, 179
 Guptas, 180
 Sah Kings, 181
 BrahmanKings of Cabul, 181
 Mohammadan coinage, 182
 Copper currency, 184
 Muslim dynasties, 185
 Patâns of Dehli, 186
 Mohammad ibn Taghlak,
 187
 Moguls of Dehli, 188
 India Company, East, 125, 139,
 265
 Invention of coinage, 10, 141;
 Ireland, 115, 127, 139
 Ireton, 258
 Iron bars, 15
 Iron currency in Japan, 231
 Italian cities, autonomous, 84
 medals, 237 *et seq.*
 mediaeval coinage, 83

 JAGATAY family, 171
 James I. of Scotland, 115
 James II. " 115
 James III. " 115
 James IV. " 130
 James V. " 130
 James VI. of Scotland and I. of
 England, 130, 256
 James II., 139, 261
 James [III.] the Pretender, 262
 Janus, 44-46
 Japan, 225-235. See "China."
 Jaunpûr, 186
 Jehângîr, 189
 Jewish coins, 153
 Joachimsthal, 98
 John Baptist, St., 88, 116
 John, King, ii., 1, 113
 Irish coinage, 116
 John, St., 86
 Johnson, Samuel, 263
 Judaea, 62, 153, 154
 Julius II., 242, 244

 KADPHISES, 179
 Kanerkes, 179
 Kanauj, 180

- Kashmîr, 182
 Keary, C. F., *Guide to Italian Medals*, 244
 Khalîfs, 164-168, 186
 Khorafan, 168
 Khubilai Khân, 188
 Khutbeh and Sikkeh, 162
 Kipchak, 171
 Kiri-mon, 234
 Knives, 192
 Knife money of Tŕi, 204
 Knife money revived, 214
 Krim, 171
 Kufic character, 157
 Kulbarga, 186
 Kurds, 169
 Kwan-tze, financial reform, 197

 L. S. D., 97
 Lamb, Paschal, 89, 111
 Latten tokens, 128
 Laud, Archbishop, 258
 Laurana, F., 248
 Laurel, 133
 Lead currency in Japan, 228
 Lead tokens, 128
 Leaf money, 206, 209
 Leaf weights, 203
 Leather tokens, 128
 Legros, 268
 Leipzig medals, 247
 Lenormant, F., 2
 Leopard, 111
 on florin, 110
 Leovigild, 78
 Lex Julia Papiria, 44
 Lexignolo, 242
 Liang dynasty, 218
 Liberty, cap of, 53
 Libra, 97
 Lima, 140
 Limerick, 116
 Lion, 115
 Lion crest borne by Beybars, 160
 Lion noble, 132
 Lioni, 243
 Local mints, 56, 66
 Locust, 23
 Lombards, coins of, 79
 Londinium, 102
 London, 102, 135, 251

 "Londres, frappée à," 251
 Louis IX., St., deniers, 00
 Crufade of, 160
 Louis XI., 248
 Louis XII., 248
 Louis XIII., 249
 Louis XIV., 94, 250
 Louis le Père, 248
 Low Countries, 108, 251
 Luder, 264
 Ludwig of Bavaria, 95
 Luther medals, 95
 Lycian league, 142
 Lydia, 10
 Lyons medals, 248, 249
 Lyre of Apollo, 14
 Lyfimachus, 28, 31
 Lyfippus, statue of Alexander, 31

 Maccabees, 153
 Macedon, British imitations of, 100
 Magadha, 180
 Magistrates' names, 38
 Magdalen Tower, 136
 Magna Graecia, 22
 Magnus Maximus, last Imperial coins in Britain, 102
 Mahmal, 159
 Mahmûd of Ghazny, 180 *et seq.*
 Mahmûd II., 173
 Maidens, 16
 Malatesta, 240
 Malayan Peninsula, 201
 Malchus, 151
 Malwah, 186
 Mamercus, 54
 Mamlûk Queen, 158
 Mamlûks of Egypt, 172, 160
 Mandchu dynasty, 224
 Manghir, 173
 Mannus, 151
 Manfûrah, battle of, 160
 Mantua, Marquess of, 242
 Maravedis, 81, 170
 Marcia gens, 54
 Margaret of Austria, 248
 Maria Theresa, 95
 Mark, 97
 St., 86

Marks, moneyers', 54
 Mars, 50
 Mary, Queen, 123
 Mary Queen of Scots, 130, 254
 Maffalia, trade with, 100
 Matthew, St., 86
 Maues, 178
 Maundy money, 139
 Maurice, Prince, 252, 255
 Medaglie, 236
 Médailles, 236
 Medallic art, 6, 70, 91, 95, 236,
 etc.
 Medallions, 68, 237
MEDALS, 236-269
 The word Medal, 236
 Italian medals, 237
 Pisano, 238
 New process of casting, 239
 Followers of Pisano, 242
 Sixteenth century medals,
 lifts, 243
 Francia, 244
 Benvenuto Cellini, 244
 Pastorino, 244
 Fontana, 245
 Portraits, 245
 Bartholomew, 246
 German medals, 246
 French medals, 248
 Dupré, 249
 The Warins, 249
 Napoleonic medals, 250
 Frappée à Londres, 251
 Dutch medals, 251
 English medals, 253
 Armada medals, 254
 James I., 256
 Charles I., 257
 Commonwealth, 258
 Blake medals, 258
 The Simons, 259
 Rawlins, 259
 Charles II., 260
 Popish Plot, 260
 James II., 261
 Pretender medals, 262
 William and Mary, and
 Anne, 264
 Military and Naval medals,
 265

MEDALS—
 Indian medals, 266
 Waterloo, 266
 Present condition of medal-
 lic art, 266
 Classical designs, 267
 The Wyons, 267
 Professor Legros, 268
 Mr. Poynter, 269
 Mediaeval coinage, 6, 74-98
 Medicis, Catherine de, 249
 Medusa, 21
 Mejdîeh, 173
 Melioli, 242
 Melissae (Ephesus), 21
 Merv, 165
 Mesopotamia, 144, 145, 169
 Messana, pharos, 53.
 Metapontum, 23
 Methods of coining, 11
 Mewar, 186
 Michael, St., 79, 112
 Middle Ages, coins of, 74-98
 Mikado's crest, 234
 Milan, 79
 portraits, 92
 Miliarenis, 61
 Military medals, 265
 Mill, 94
 Millares, 170
 Minerva, 44
 Mines in China, 197
 Ming dynasty, 224
 Mints of Charles I., 134
 provincial Rome, 55, 66
 Mints, Scottish, 114
 Mithradates, 32, 145, 150
 Mithras, 179
 Modern coins, 7, 93
 Moguls of Dehli, 188
 Mohammad ibn Taghlak, 187
 Mohammad II., 173
MOHAMMADAN COINS, 156-174
 Art on Muslim coins, 156
 Calligraphy, 156
 Historical Associations, 158
 A Mamlûk Queen, 158
 Genealogical data, 159
 Crusade of St. Louis, 160
 Value of numismatic evi-
 dence, 163

- MOHAMMADAN COINS—
 Origin of the coinage, 164
 Religious inscriptions, 166
 Weight and fineness, 167
 The Khalifate, 167
 Dynastic coinage, 168
 Christian figures, 169
 Mongols, 170
 Mamiúks, 172
 Berbers, 172
 Ottoman Turks, 173
 Mohammadan coins of India, 182
 Mohammadan dynasties of India, 185
 Mommsen, Th., 2, 44
 Moneyers, 54
 Mongols, 170
 Monmouth, rebellion of, 261
 Monopoly of copper tokens, 129
 Moorish currency, 81, 167 *et seq.*
 More, Thomas, 253
 Morocco, 172
 Morton's portrait of Mary, 254
 Mofes of Khoren, 150
 Mofil, 169
 Mouton, 111
 Murâbitin, El-, 81, 170
 Murshidabad, 189
 Mufa, 148
 Musta'sim, El-, 159
 Muwahhidîn, El-, 170
 Mythological types, 12
 Mythology on Greek coins, 5
 Indian, 179
 Persian, 141, 142

 NABATHEA, 151
 Nanaia, 179
 Naples, 22, 91
 Napoleon I., 96, 250
 Naval rewards, 258
 medals, 265
 Neptune, 53
 Neuantos, artist of Cydonia, 37
 Newark, 135
 Nien-hao, 217
 Nike on Parthian coins, 147
 Nile medal, 265
 Noble, 110
 Normandy, 111
 Normans, 107
 of Apulia, 86 *et seq.*
 Norse Kings in Ireland, 106, 115
 Norse Arabic coins, 84
 North Africa, 169, 170
 Norway, 106
 Numerals on English coins, 118
 note
 Nuremberg, 96, 247
 Nymphs, 20, 25

 ODENATHUS, 151
 Offa, King of Mercia, 82, 105
 Olive branch of Athena, 16
 Olympian games, 23
 Omniade Khalifs, 167
 Omphalos, 18
 Oerkes, 179
 ORIENTAL COINS, EARLY, 141-155
 Persia, 141
 Phoenicia, 143
 Successors of Alexander, 143
 Satraps, 144
 Central Asia, 145
 Parthians, 145
 Sassanians, 148
 Armenia, 150
 Nabatheia, 151
 Palmyra, 151
 Arabia, 151
 Judaea, 153
 Oriental invention of coinage, 11, 141
 Ormazd, 149
 Ortygia, 26
 Oscan coins, 57
 Osroene, 151
 Ostrogoths, 78
 Ottoman Turks, 177
 Owl of Athene, 16
 Oxford, 135
 Oxford Crown, 136

 PADLOCK money, 200
 Pallas, 28, 44, 147
 Palm-tree (Ephefus), 21
 Palmyra, 151
 Pangaeum mines, 20
 Pantheon, Indian, 179
 Parian Chronicle, 10

- Parthians, 145
 Parvati, 179
 Paffe, Simon, 257
 Paffi, Matteo, 242
 Paflorino, 243, 244
 Patâns of Dehli, 185
 Pavia, 79
 Pavillon, 111
 Pearls, 197
 Pecunia, 10
 Pehlvi, 165
 Peloponnesus, 15
 Peninfular medal, 266
 Penny, silver, 82, 105
 copied abroad, 108
 degradation of, 109
 gold, of Henry III., 109
 Scottish, 131
 etymology, 81 *note*
 Pepin the Short, 82
 Père, Louis le, 248
 Persephone, 22, 36
 Persia, ancient, 141
 Shahs of, 7, 171
 Peter, St., 86
 the Great, 94, 95
 Petition Crown, 138, 259
 Petra, 151
 Petrarch, 6
 Pfaffenpfeninge, 84
 Pfenning, 81
 Pheidias' Zeus, 40
 Pheidon, King of Argos, 10
 Philetærus, 31
 Philibert le Beau, 248
 Philip of Macedon, 27
 Philip the Fair, 126
 Philip and Mary, 123, 253
 Phoenicia, 143
 Phraates IV., 148
 Phraataces, 148
 Phrygian cap, 178
 Pilon, G., 249
 Pifano V., 6, 238
 Pifo, 51
 Plack, 115
 Plumbei Angliæ, 128
 Poitou, 111
 Pollajuolo, 242
 Pomedello, 243
 Pompeius, Sextus, 53
 Pontefract, 135
 Popes, portraits of, 92, 242, 244
 Portcullis, 125
 Portraits, 4, 7, 94
 Greek, 12, 28
 Roman, 72
 Italian, 91, 238 *et seq.*
 English, 117, 253 *et seq.*
 Scottish, 130
 German, 246
 French, 248
 Dutch, 252, 254, 256, 257, 259
 Pofeidon (Haliartus), 19
 (Tarentum), 23
 Pofumia gens, 53
 Pound, 97, 132
 Poynter, E. J., 269
 Prague, 89
 Praxiteles' Aphrodite (Cnidus),
 40
 Prelatical frauds, 126
 Pretender medals, 262
 Priestly colleges, 13
 Priests, names on coins, 39
 Primavera, G., 249, 254
 Prinsep, 183
 Procurators of Judæa, 154
 Provincial mints, 66
 Prusias, King of Bithynia, 31
 Ptolemies, 152
 Ptolemy Philadelphus, 30
 Soter, 29
 Punched coins, 179
 Punch-marked coins, 8
 Pythian Festivals, 17
 Python, 25

 QUADRANS, 43, 50
 Quarter-sovereign, 124
 Quincuffis, 43
 Quinari, 3, 48

 RAJPUT kings, 181
 Ram's head of Apollo, 18
 Rawlins, T., 136, 259
 Realism on Greek coins, 31
 on Italian medals, 240
 Reformation medals, 95
 Regimental medals, 266
 Reitz, H., 247
 Religious types, 12

- Renaissance, 91
 in England, 117
 Restoration medals, 260
 Restrictions on export of coins,
 126
 Reuter, de, 252
 Revolts, Jewish, 154
 Rider, 115
 Ring weights, 202
 Ringelberg, J., 247
 River gods, 23
 Robert II., 115
 Robert III., 115
 Roettier, 138, 259
 Roma, head of, 50
 ROMAN COINS, 42-73
 Aes rude, signatum, and
 grave, 42, 43
 Early gold and silver, 45
 Campanian coins, 45
 Reduction of the as libralis,
 46
 First Roman silver coins, 48
 Victoriatas, 49
 Uncial as, 49
 Gold coins after, B.C. 269, 50
 Types, 52
 Moneys' marks, 54
 Mint officers, 55
 Local issues, 56
 Oscan coins, 57
 Imperial coinage, 59
 Argenteus, 60
 Diocletian's reforms, 60
 Solidus, 61
 Imperial types, 61
 Christian types, 63
 Iconographic types, 64
 Local mints, 66
 Alexandrian coinage, 67
 Medallions and tickets, 68
 Medallic art, 70
 Roman currency used by bar-
 barians, 77
 Roman effigies on Jewish coins,
 154
 Roman mints, 66, 102
 Romano, 243
 Ronfard, 249
 Rose noble, 112
 ryal, 132
 Rose, Tudor, 120
 on sixpence, 124
 Runes, 103
 Ruffia, 93, 95, 172
 Ryal, 120
 SABAZIUS, 20
 Sabines, rape of, 54
 Sacae, 144, 178
 Saddle-money, 206
 Sâffarîs, 168
 Sah Kings, 181
 Saints, 64, 86, 179
 Saladin, 169
 Sâlih, Es-, 159, 160
 Salutes, 112
 Sâ mânis, 168
 Sancho Ramirez, 86
 Saphadin, 160
 Saffanians, 148
 silver used by Arabs, 164
 Satraps, Greek, 144
 Saturn, head of, 52
 Satyrs, 20
 Saulcy, de, 2
 Saurastran, 181
 Sauvaire, H., 158
 Saxons, 102
 Emperors, 83
 Scandinavian coinage, 85
 Scarborough, 135
 Sceat, 103
 Sceptre piece, 132
 Schilling, 96
 Schools of coin artists, 4
 Schutz-thaler, 95
 Scotland, 106, 113, 129
 Sculpture compared with coins,
 Greek, 3
 Scylla, 53
 Scythic Kings, 178
 Seifachtheia, 16
 Seifstân, 168
 Segesta, 24
 Selene, 178
 Seleucia, 177
 Seleucid era, 147
 Seleucidae, 143
 Seleucus I., 143
 Selinus, 24
 Seljuks, 169

- Semis, 43, 50
 Semarang Sen, 201
 Sequence, chronological, of
 Greek coins, 33
 Sequin (Zecchino), 89, 97, 173
 Serapis, 179
 Servius Tullius, 42
 Sestertius, 48, 50
 Sextans, 43
 Sextantal as, 47
 Shaftesbury, 261
 Shahs of Persia, 171
 Shakespeare, *Henry VIII.*, 122
 Merchant of Venice, 113
 Merry Wives, 113
 Shang dynasty, 197
 Shang-lin mint, 212
 Shejer-ed-durr, 158
 Shkel, Persian, 141
 Jewish, 153
 Shell currency, 192 *et seq.*
 Sherifs of Morocco, 172
 Shield, English, 120 *et seq.*
 Shield of Boeotia or Herakles,
 18
 Shilling, 96, 117
 Shrewsbury, 135
 Shu King, 199
 Sicily, 23
 Siege pieces, 135
 Sieges-thaler, 95
 Sigli or shekels, 141
 Signatures of artists, 36, 37
 Sikkeh rupee, 189
 Siliqua, 61
 Silk, 192
 Silver among the Germans, 104
 Silver prevailing in Europe, 81
 Simon, Abraham, 136, 259
 Simon bar Cochab, 154
 Simon the Maccabee, 153
 Simon, Thomas, 136, 259
 Siva, 179
 Sixpence, 123
 Skilling, 96
 Sluys, battle of, 110
 Smeltzing, 261, 264
 Solidus, 61, 96
 Solon, 15
 Sophocles, Trach., 12
 South Sea Company, 140
 Sovereign, 120
 Sovereigns, portraits of, 94
 Spade weights, 202
 Spain mediæval coinage, 85,
 167
 Armada, 255
 Spectator's Shilling, 237
 Spenser, *Prothalamium*, 241
 Sperandio, 242
 Sphinxes, 21
 Spinelli, N., 248
 Spur ryal, 132
 Stag of Artemis, 14
 Artemis (Ephesus), 21
 State coinage of China, 208
 of Greece, 14
 Statues, copies of, on coins, 3,
 40, 71
 Stephen of Holland, 254
 Sterlings, 109, 113
 Stone age, relic of, 201
 Strabo, viii., 6
 Strafford, 258
 Stuarts, coinage, 134
 Study of coins, 1
 Styles of art on Greek coins, 33
 Styles, sequence of, 33
 Successors of Alexander, 28
 Sulla, 50
 Sung dynasty, 218
 Sunga Kings of Magadha, 180
 Swan of Camarina, 25
 Sword dollar, 132
 Syracusan artists, 36, 37
 Syracuse, 25
 Syro-Greek kingdom, 143
 TACITUS, *Germ.*, 5
 Taikun, 234
 Tai-ping rebellion, 224
 Tamerlane, 171, 185
 Tanagra, 19
 Tankah, 186
 Taras, 22
 Tarentum, 22
 Tarpeia, 54
 Tartars, 218 *et seq.*
 Tch'en dynasty, 219
 Tchou dynasty, 198
 Telephus, 178
 Temple coinage, 13

- Temples and monasteries, Budd-
 hist, 222
 Temples, pictures, and statues,
 represented on coins, 3, 5, 40,
 71
 Ten-shilling pieces, 138
 Ten-sho period in Japan, 229
 Terina, 4
 Test Act medal, 261
 Thaler, 98
 Theodebert, 78
 Theodotus of Cydonia, 37
 Third-ryal, 131
 Thirty-shilling pieces, 132
 Thistle dollar, 132
 mark, 132
 noble, 132
 Thomas, E., 183, 184, 187
 Thrace, 19
 Three-halfpenny pieces, 124
 Threepenny piece, 124
 Thunderbolt, symbol of Zeus, 14
 Tiara, Armenian, 150
 Tickets, 68
 Tigranes, 143, 150
 Timur, 171
 Tin tokens, 128
 Tiraëus, 152
 Titus, coins of, 62
 Tokens, English, 128
 Topa dynasty, 219
 Tortoise-shell currency, 193
 Tortoise of Aphrodite, 14, 15
 Touch-pieces, 263
 Tower mint, 136
 Towns, names of, 106
 Trafalgar medal, 265
 Trajan, 63
 Tranfoxiana, 168
 Treasures, temple, 14, 222
 Tremissis, 79
 Trezzo, 253
 Trident of Poseidon, 19
 Triens, 43, 50
 Triental as, 46
 Trim, 116
 Trinity, Holy (Hand, Cross, and
 Dove), 86
 Trinobantes, 102
 Tripod of Apollo, 14
 Triumph, the, 258
 Tromp, Van, 252
 Tŕi, Duke of, 198
 knife money of, 204
 Tŕin dynasty, 208
 later, 217
 Tudors, 117 *et seq.*
 Tŕlŕn, Beny, 168
 Turks, Ottoman, 172
 Twenty-shilling piece, 130
 Two-guinea piece, 138
 Two-penny piece, 124
 Two-third ryal, 131
 Type, 11
 Tyre and Sidon, 143

 ULYSSES, 54
 Umawy Khalifs, 167
 Uncia, 43
 Uncial as, 49
 Unicorn, 115
 Unite or broad, 132
 Urtukŕs, 169
 Utrecht, Peace of, 264

 VAGARSHAG, VALARSACES, 150
 Vandals, 78
 Venice, 89
 Verona, artists of, 238, 242
 Vespasian, 62, 154
 Viceroys of Egypt, 173
 Victoriatus, 49
 Victory, 28, 46, 63, 147
 Views of cities, 96
 Vigo Bay Expedition, 139
 Vikings, 85, 106
 Virgil, *Æneid*, 45
 Virgin on Mohammadan coins
 169
 Virgin and Child, 86
 Virgin and Saviour, 64
 Visigoths, 78
 Vultus Sanctus, 86

 WANG MANG, 213
 Warin, 92, 249
 Water nymphs, 25
 Waterloo medal, 264, 266
 Waterford, 116
 Wealth, increase in England,
 119
 god of, 232

- Wei, State of, 216
 Weights and denominations, 96
 Weight of Mohammadan coins,
 167
 Weights, current, in China, 202
 Westminster Abbey, shields in,
 121
 Wexford, 116
 Weymouth, 135
 Wheel of Apollo, 19
 William I. and II., 107
 William III., 139, 263
 William the Lion, 113
 William the Silent, 252
 Winecup on Indian coin, 189
 Witts, the De, 252
 Wolfey's groat, 122
 Women on Arabian coins, 152
 Worcester, 135
- Wu, State of, 216
 Wyon, 267
- XERXES, 150
- YANG-TCHEU cowries, 193
 Yh-King, 192
 York, 122, 135
 Yu-chi, 178
 Yuen dynasty, 224
- ZECCHINO (sequin), 89, 97, 17
 Zengy, Beny-, 169
 Zenobia, 151
 Zeus, chryselephantine, copied
 on, 40
 on Philip's silver coins, 27
 Zion, deliverance of, 153
 Zodiacal coins, 8, 189







1980

ONTARIO LEGISLATIVE
LIBRARY

by the

UNIVERSITY OF TORONTO
LIBRARY

Presented to the

CJ
75
L3
1892

Lane-Poole, Stanley
Coins and medals

