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MANUAL  
OF  
LIBRARY CLASSIFICATION  
AND  
SHELF ARRANGEMENT

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BY

JAMES D. BROWN

LIBRARIAN, CLERKENWELL PUBLIC LIBRARY, LONDON

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## PREFACE

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THIS work has been prepared to meet the requirements of those who are engaged or interested in the study of practical library methods. No English book on this subject has been issued since Edwards dealt with classifications generally in his *Memoirs of Libraries*, published in 1859; and the literature of the subject consists of little more than papers on single schemes. Classification has never been a strong point in British libraries, and this has arisen partly from apathy on the part of librarians, but also from the difficulty of obtaining information about American and foreign schemes which have been successfully applied to libraries. Leaving out of view Petzholdt's list of classifications contained in his *Bibliotheca Bibliographica* (1866), I have been unable to find that any single work devoted entirely to a systematic examination of schemes has ever been issued in any country. This little book has been prepared, accordingly, to fill a well-defined space in library literature; and however inadequate or slight the attempt may be, it is earnestly hoped that it will in some measure help to stimulate interest in the subject of classification.

The "Adjustable Classification" has been prepared for the use of municipal public libraries chiefly; but it can be adapted to almost any variety of general library, provided arrangements are made for subdivisions. Two thousand two hundred and fifty divisions are provided, excluding general heads, while provision is made for four thousand five hundred divisions by means of blanks. Each of these divisions is capable of infinite sub-division. For most ordinary purposes the divisions printed will meet every need.

Suggestions and corrections will be gladly received from any one interested in the subject.

JAMES D. BROWN.

CLERKENWELL PUBLIC LIBRARY, LONDON.

*January, 1898.*

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## CHAPTER I

### *GENERAL CONSIDERATIONS*

1. THE subject of classification has attracted the notice of scholars and practical men alike for nearly four hundred years. Its difficulties and disputed points have furnished exercise and amusement for many minds since the earliest attempt was made to tabulate the branches of human knowledge in a systematic and useful manner. At the end of the nineteenth century, after hundreds of schemes have been submitted as fulfilling every requirement, there is nearly as much diversity of opinion concerning the exact manner of dealing with certain topics as there has been any time during the past three centuries. In one respect, however, there is more unanimity of feeling than ever there was before, and that is as regards the necessity for systematic classification of some kind in every department of human life and effort. We see this more particularly in such departments of learning as Biological Science, Medicine, Chemistry, and in institutions like Museums and Art Galleries, which depend for their educational value and effect upon the system of arrangement adopted.

2. The principle of classification is of almost universal application. It is to be seen in nature on a gigantic scale in the disposition of earth, air, and water, and in the natural laws which govern them. Artificially it has a very good rudimentary exposition in the practice of the costermonger, a familiar object in the streets of our large towns, but nevertheless a classifier of considerable skill. He does not put gooseberries, cherries, and strawberries all together in one

barrow, and sell them mixed under the comprehensive name of "Fruit" at threepence a pound, but carefully divides and keeps them apart under a strict plan of classification. He may sub-divide his main class, "Strawberries," into two sub-classes, "Sir Joseph Paxtons" and "British Queens" respectively, attaching to each different *values*, and he may further sub-divide the "British Queens" into two divisions of different *qualities* at varying prices; while he is certain to adopt an even more minute *quantitative* sub-division by arranging that all the large berries shall be at the top and the small ones at the bottom!

3. With such an example before us of careful and minute classification, selected from the daily practice of a humble commercial class, we should doubtless expect to find in our public libraries a similar and more scientific system of exact classification; not only finding all the books on a given subject together on the shelves, but in close proximity to all other works on related topics. The belief appears to be quite common, at least among educated people, that in English public libraries some method of classification is universal by which all the books on large subjects like Law, Chemistry, Botany, United States, China, Building, Agriculture, Language, etc., are to be found together, not only in the catalogue, but on the shelves. It never seems to enter the mind of an unprofessional person that there can be any doubt on this point, or that books on related subjects in public libraries are not as certain to be kept together as the different articles of merchandise in a large general store. It would be considered by most people who give the matter a thought, just as absurd as for a grocer to keep his tea and sugar mixed in one drawer, as for a librarian to mix his botanical books with those on manufactures and perhaps a score of other equally foreign topics. Yet it is the fact that, so far at least as British public libraries are concerned, close classification is just the one thing which does *not* prevail to any great extent.

4. From personal enquiries among librarians, visits to libraries, and a careful study of their catalogues, together with

the information given in *Greenwood's Library Year Book, 1897*, and other authorities, we are enabled to give the following particulars of the methods of arranging books in British libraries, both municipal and semi-public. Out of the two hundred and eighty-seven libraries embraced by our enquiry only thirty-four had classifications which can be described as scientific or minute, and in this number at least sixteen applied the method only to their reference departments. Of the others, only about twelve municipal, or rate-supported, libraries have adopted scientific classification for the arrangement of both lending and reference departments. There are thus two hundred and fifty-three important public libraries which are not classified at all, save in the broadest and most perfunctory manner. As these arrangements of books cannot be correctly described as classifications, along with the more exact and logical systems mentioned later on, it will perhaps be most convenient to dispose of them here.

5. Many reasons have been advanced to account for the extraordinary lack of scientific classification in the United Kingdom as compared with the United States; but it may be affirmed that the chief one has been the employment of under-paid, untrained, and not over-educated librarians in the early days of the public-library movement, when revenues were small and every expense had to be cut down in the most merciless manner. In the absence of scientific models on which to base their practice, these early librarians had each to devise a method of classifying or arranging books to suit local requirements. The principal requirement seems to have been the readiest means of finding the place of a given book when asked for by a certain number, and so arose the many varieties of numerical location systems which we shall briefly describe now, before passing to more general considerations affecting the whole question of classification.

6. It is hardly correct to include in this group of methods the old *Collegiate* plan of press-marking, which still flourishes in many places. But as the original classifications of which this kind of press-marking forms part have long since disappeared

under vast accumulations of books which have had to be stored somehow, it will be as well to give it first place in honour of its hoary antiquity. The system, then, which we have styled collegiate press-marking consisted in the plan of lettering or numbering the presses or alcoves in the library after assigning certain classes of books to each. The separate shelves of each press were numbered or lettered, and each volume on every shelf was differently numbered. This was one of the most minute kinds of this style of classification and shelf-marking. If a tier consisted of six shelves, the marking would be as follows :

## PRESS A

Book	1	2	3	4	5	6	etc.				Shelf A
Book	1	2	3	4	5	6	etc.				„ B
All books on											„ C
following shelves											„ D
numbered as											„ E
above.											„ F

Thus, supposing Press A to contain books on Chemistry, and Roscoe's *Chemistry* was the fifth book on the second shelf, it would receive the press mark AB 5. This is a very close direction to the place of a book; but of course the plan is open to dozens of objections, of which the most obvious are that each book is practically *fixed* to a certain place, and congestion of any press or shelf is likely to lead to complete dislocation in the classification. As carried out in the older libraries, this system may fitly be termed one of the classifications which are not classifications. A survival of this plan is

to be seen in a modified form in the British Museum reading-room, where the presses are numbered and the shelves simply lettered A, B, C, etc., in each tier, the books not being numbered in any shelf order. A further development of this style of shelf-marking is described in Section 10.

7. We come now to another group of classification schemes which are not classifications; namely, the methods alluded to in Section 5 as being common to the majority of English public libraries. These we shall name for convenience' sake **Numerical Finding Methods**, as they are indeed but little else. The most rudimentary, and, luckily, also the most uncommon, of these plans is that of numbering the whole of the books in the library in one immense sequence of progressive numbers, each new book receiving the number after the last one already on the shelves. This plan has the undeniable advantage of reducing wear and tear on the librarian's brain to a very fine minimum; it insures considerable ease in the finding of a given book, provided its number is known; and presents the economic advantage of requiring shelf space to be reserved only at one unmistakable place—the end of the sequence. Furthermore the shelf and accession numbers coincide. Otherwise the books have no more arrangement or relation to each other than have the contents of a dust-bin.

8. The form of shelf arrangement most used in English public libraries is a variation of the numerical plan just described, the principal difference being that the library is broken up into six, eight, ten, or more broad classes or divisions, in each of which the books are arranged in a separate series of progressive numbers in the accidental order of their accession. The main divisions generally chosen are:

- |                                  |                                |
|----------------------------------|--------------------------------|
| A. Theology and Philosophy       | F. Fiction                     |
| B. History and Biography         | G. Philology                   |
| C. Travel and Topography         | H. Poetry and the Drama        |
| D. Law, Politics, Commerce, etc. | J. Juvenile Literature         |
| E. Arts and Sciences             | K. Miscellaneous and Magazines |

No further sub-division is made, and the books are very much



mixed in every class, as may be seen by the following specimens selected from a typical shelf list :

CLASS C. HISTORY, GEOGRAPHY, ETC.

2569. Pinnock's Rome	2573. Freeman, English People
2570. Summer Tours in Scotland	2574. Bird, Rocky Mountains
2571. Mayhew, Birchington-on-Sea	2575. Society in London
2572. Scenery of the Lakes	2576. Buried Alive in Siberia
	2577. Year in Manitoba

No attempt is made to gather in one place all the books on the same countries, and the catalogue is the only guide to the chaos. As regards most of the older catalogues, it may be said here that they were of no value whatever as indexes to the different classes of books. The practical inconvenience of this numerical arrangement may be further illustrated by this example from another library. The novels of Miss Marie Corelli are located in ten different places, as follows—1401-3, 2583-86, 2612, 2926, 2935, 3015-16, 3139-40, 3480-81, 3566, 3729; thus making it impossible for the librarian to tell, without considerable trouble, whether or not any of that novelist's works are available. If, further, any reader wished to examine a few works on Chemistry, he would have to wait till the librarian picked them out of the Science Section, where they are buried and distributed among a thousand other books on fifty or a hundred different subjects. In another library, arranged on this class-numerical plan, thirteen books on London are scattered all over a large division of over four thousand volumes in this order: 617, 651, 931, 937, 949, 1125, 1188, 1209, 1333, 1457, 1463, 3735, 4026. The difficulty of making easy and rapid reference under this distributive plan to books on one subject for a particular fact may be more easily imagined than described. One last example from an Indicator Key will help readers to comprehend the disorder which reigns in the average English public library, where much is sacrificed to the ambition to issue as many books as possible in a given time. This is how the novels stand on the shelves in a particular library; but it may be taken as a fair sample

of the kind of thing existing in most of the others which are arranged on these lines :

- |                                      |                                 |
|--------------------------------------|---------------------------------|
| 1460. Kennard, Straight as a Die     | 1462. Barr, In Spite of Himself |
| 1461. Lawrence, Breaking a Butterfly | 1463. Sue, Mysteries of Paris   |
|                                      | 1464. Barrie, Window in Thrums  |

For the information of any one desiring to adopt this plan, it ought to be explained that in libraries using the class-numerical system the numbers given are not necessarily the accession ones, but more likely special shelf numbers. In those libraries which use accession numbers only it is necessary to appropriate a large number of blanks for each division, in order to keep the books in one sequence of numbers on the shelves and on the classified indicator. This plan may be illustrated thus :

Class A	has appropriated to it	Numbers	1 to	1000
" B	"	"	"	1001 to 2000
" C	"	"	"	2001 to 4000
" D	"	"	"	4001 to 4500
" E	"	"	"	4501 to 6000
" F	"	"	"	6001 to 10000
	And so on all through.			

In some other libraries the practice obtains of numbering the books in one series, as described in Section 7, but with the difference that the books of each division are picked out and kept separate, thus presenting a broken order of numbers. Class A, for instance, may be formed of Nos. 56, 99, 301, 857, 1003, etc. ; Class B of 1, 10, 15, 36, 47, 98, 101, 175, etc. ; and so on. The indicator shows but one series of numbers, and the accession number alone is used for numbering and cataloguing. Of course readers must specify the class letters when asking for books by this system, and the books must be kept in the order of their numbers. It has the advantage over the plan first described in this section, of simplifying stock-keeping, as no numerical shelf registers need be kept, apart from the accessions book.

The arbitrary distinction of size has modified the practice in a few of the older libraries, where, in addition to main divisions

in numerical or alphabetical order, a further sub-division by folio, quarto, octavo, and duodecimo sizes is maintained. Beyond tidiness and enhanced appearance of the shelves, there is little practical benefit in this method, as no one would dream of wasting space by putting folios and octavos together, when methods exist of keeping them apart, yet classified.

9. A more logical method of shelf arrangement than any of the foregoing, though one equally capable of distributing and mixing subjects, is the plan of keeping an alphabetical sequence by names of Authors, or, in the case of anonymous books, the first word of the title-pages not an article. As regards Fiction, Poetry, and other *Form Classes*, this has an enormous superiority over all the numerical plans, especially when the books are arranged in broad divisions similar to those set out in Section 8. When the arrangement is an author alphabet in one great sequence, the sole merit is the somewhat important one of displaying and keeping all the works of one author together. In certain branches of study this is important, though an alphabetical catalogue obtains practically the same result. The amount of movement necessary by this system to provide for the proper intercalation of new authors or books is very considerable. For small libraries the author-alphabetical arrangement in broad divisions can be recommended as being easy to apply, and causing no trouble, at a later stage of development, when it is thought advisable to adopt one of the modern scientific systems of subject classification. By this plan the accession number is used for cataloguing, charging, and all other purposes, as well as on the indicator, which must be kept in one sequence. Readers asking for books usually fill up forms which specify in very brief terms class, number, author, title. Some librarians have adopted methods of shelf arrangement combining both numerical and alphabetical order; but very few of those using sequential-finding systems are able to claim exact subject classification on the shelves.

10. There are only a few libraries in Britain which are arranged in an orderly array of Subjects, without being systematically classified according to a logical scheme like

those described in Chapters III. and IV. Among them the practice of the Mitchell Library, Glasgow, may be described as an example. Its shelves are numbered consecutively throughout in tiers of ten, but no marking is used for the different presses. Each book is numbered in order of receipt in a book of progressive numbers called a Location Book, which has columns ruled to show the shelf number or place of each book as well as its author and title. A certain number of shelves or tiers are assigned to each class of books, and on these shelves a fairly close subject classification is maintained; that is to say, all, or most, of the botanical, architectural, philosophical, and other works will be found together on adjoining shelves, though not necessarily with further subdivisions. It is thus much more minute than the plan described in Section 8, though not so close as the systematic methods described later. To show the difference clearly, it may be as well to repeat that in class-numerical arrangements the books in Class E—Arts and Sciences—form a heterogeneous collection of all kinds of subjects mixed up anyhow in numbered order. Thus books on Music, Football, Building Construction, Botany, Sculpture, Drawing, Pottery, Fireworks, Architecture, Chess, and Watchmaking are all jostling each other in one great procession of numbers. The subject classification we are describing provides for the separation on the shelves of these different subjects in a rough but sufficiently close order. Class E—Arts and Sciences—may therefore have the sciences arranged in sub-classes, like Astronomy, Chemistry, Physics, Zoology, Botany, Geology, Mathematics, etc., so that the difficulties caused by the separation of related subjects would be partly overcome. The accession numbers are used for all purposes, and in cases where assistants do not remember the places of books when asked for, a reference to the book number in the Location Book directs at once to the shelf. The shelf number is also written on the label inside each book, so that there may be no difficulty or mistake about replacement. In the Mitchell Library the plan of giving ten numbers to each tier of shelves has been tried with the object of securing a

certain amount of uniformity. For example, the numbering of the first four tiers, as below, shows that each cross-range of shelves forms part of a decimal order :

Shelf	1	11	21	31
„	2	12	22	32
„	4	14	24	34
„	5	15	25	35
„	6	16	26	36
„	7	17	27	37
„	8	18	28	38
„	9	19	29	39
„	10	20	30	40

There being only nine shelves in a tier, the third number is omitted in every ten. The chief advantage claimed for this plan, apart from appearance, is that it aids the memory of assistants in using the shelves.

The first application of this system, sometimes called the "Decimal," seems to have been at Boston, U.S., in 1856, though Edwards<sup>1</sup> states that it was "well known in European libraries for scores of years." However that may be, it is certain that Nathaniel B. Shurtleff was the first to devote a special treatise to the explanation of the system. It is entitled *A Decimal System for the Arrangement and Administration of Libraries, Boston, 1856, privately printed*; and besides an exposition of the so-called decimal system, contains a few very elementary hints on library organisation. Shurtleff's idea was to have the books arranged in alcoves containing ten presses or tiers, each of which was to have ten shelves. Without going into details as to certain shelves set apart for special purposes or his method of indicating bottom shelves, it may be said that the arrangement resulted in the shelf number forming in itself a direct reference to both press and shelf. An alcove

<sup>1</sup> *Memoirs of Libraries*, Vol. II., p. 928.

with its one hundred shelves in ten tiers might be numbered thus :

Shelf	101	111	121
„	102	112	122
„	103	113	123
„	104	114	124
„	105	115	125
„	106	116	126
„	107	117	127
„	108	118	128
„	109	119	129
„	110	120	130

And so on.

The books on each shelf are consecutively numbered 1, 2, 3, 4, 5, 6, etc., so that a press mark  $\frac{5}{113}$  would mean the fifth book on the second shelf of the eleventh tier or press. The units denote shelves and the tens tiers all through the library, giving in one number a double direction to press and shelf. This is simpler than the collegiate plan described in Section 6, but resembles it in the fixed nature of its shelf notation and the lack of provision for inserting a book between, say, Nos. 3 and 4, supposing it were on the same subject. The system was at one time used in the Boston (U.S.) Public Library ; but we are not aware of any place where it has been adopted in its integrity as described by Shurtleff.

The Glasgow system has been described on several occasions as *the* "movable location," in contradistinction to shelf systems, which provide only for the movement of whole classes and not single books. It would render the subject much clearer if the term "movable" were applied to shelf arrangements which do *not* require the press mark to be printed in the catalogue, while the term "fixed" might be reserved for plans

which depend upon the appearance of the press mark in the catalogue. These latter are called "movable" in our opinion, somewhat erroneously, because the fact that the numbers which are printed in the catalogue are those which denote the exact places of books in a fixed sequence of numbers is enough to show that no real movability or adjustability of individual books exists. For example, in a library arranged on the class-numerical plan (Section 8) it is impossible without altering the catalogue, etc., to change the position of any book. If E 596 is a work on History accidentally placed in the Science Class, it cannot be shifted to Class B without upsetting the printed catalogue and all MS. records. By the Glasgow plan, in which the accession number alone is used for cataloguing and all other purposes, any change of class or actual position can be effected by simply altering the shelf number in the Location Book and on the book label. Furthermore it is possible to place all popular books near to the point of service, irrespective of class, which is a very important consideration in large, busy reference libraries.

The following additional particulars of the Mitchell Library shelving system and the results as affecting the service have been sent by Mr. Barrett, the librarian :

"When we were rearranging the library for Miller Street, we went on the principle of breaking up the classification on the shelves in favour of an attempt to bring the books most used into nearness to the point of service. We selected several hundred volumes, including some from each class, and placed these on shelves close at the centre of the counter, where books are issued; these of course are books in constant demand. Next we selected the books in each class which are frequently called for, and arranged these in the long series of bookcases occupying the ground floor of the front building; these number a good many thousands, and they are of course classified on the shelves. The books in less frequent call are placed in the more remote parts of the building—on the walls round the reading hall (we generally put the better-looking books there, simply with a view to appearance), in the gallery,

in the top flat, in the basement. The point I want to bring before you is the outcome of this arrangement as affecting the service. I have had a series of observations made of the time taken to issue a book, counting from the instant a reader places his application paper on the counter to the instant the book is placed in his hands. The observer has a watch with seconds hand, and is instructed to note the time to a second. Naturally the time varies a good deal. Some books kept close at the counter are given out instantly—say, five seconds. Not many are over three minutes. One series of five hundred observations, taken at random of course, gave an average of one minute nine seconds. Another series, by a different observer, gave an average of one minute twelve seconds each issue. For a library of nearly one hundred and thirty thousand volumes, that appears to me to be a very satisfactory result. The larger a library becomes the longer the average time of issue will become, if only from the fact that many of the books must be more or less distant from the point of service."

11. The methods of arranging books on the shelves described in the foregoing sections comprise nearly the whole of the principal varieties used in British public libraries of all kinds. It will now be seen that only four chief methods exist; namely:

1. The Fixed Location (Section 6), by which each book and class is permanently located or placed on a certain shelf or series of shelves in a fixed order, that order being determined by the press marks printed in the catalogue.

2. The Location in Numerical Sequence (Section 8), by which books are placed at haphazard somewhere in a main class without regard to subject, the appearance of the *place* number in the catalogue tending to fix individual books in a rigid order. This method is wrongly termed "movable." It might be better described as "class movable."

3. The Author-alphabetical Arrangement (Section 9) by large classes or in one series.

4. The Subject Location (Section 10), enabling books to be classified in any order and forming a "book movable" plan,



wherein the individual book, and not the whole main class or division, is the unit for arrangement.

None of these methods, excepting the fourth, are systematic classifications of books in a recognised order of subjects and related topics, but simply, as we have already stated, plans whereby books can be found when wanted. There is a certain merit in being able to lay hands readily upon a given book at short notice; but this is considerably minimised when it is known that other systems exist, combining in themselves complete, logical, and scientific classifications with simple and effective finding arrangements. The choice has been before British librarians for over twenty years, but with comparatively few exceptions has seldom been exercised. In the United States and British Colonies, on the contrary, the numerical methods we have described are practically unknown, every library being closely classified according to a scientific system both on the shelves and in most cases in the catalogues as well. The chief argument which has been used against close classification in Britain is that in collections of books not open to direct examination by readers there is no necessity for having books of a sort together; while the catalogue is held to meet every want that an index to a heterogeneous mass of books can supply. We deal with this latter claim in Chapter V.; while as regards the former, may now conclude this chapter with a few general observations in addition to what has already been said on the subject in Sections 1-8.

12. It must be allowed that within the past five or six years a disposition has been manifested among English librarians to consider more closely the claims of systematic classification on the shelves. Where previously a tendency existed to scoff at such accuracy as a vain and unattainable ideal, there is now to be found a spirit of enquiry which will doubtless lead to a complete change of attitude in the future. What has helped towards the formation of this growth of opinion more than anything else has been the appearance and acceptance of various valuable and ingenious American systems, worked out to the smallest detail, completely indexed, and made widely available

through the medium of print. These have, to use a homely phrase, "knocked the wind" out of nearly every objector to close classification, by demonstrating not only its practicability, but also its general simplicity and usefulness. The objections heard against systematic classifications are no longer based upon such points as the impossibility of an all-round agreement being arrived at as to main classes, or the undesirability or difficulty of making one scheme to suit all libraries; but are directed almost entirely to criticism of such details as where in a main class to put given topics. The general acceptance of close classifications for reference libraries tends also to confirm our contention that the principle has been adopted very largely, though considerations of expediency may delay the execution in some libraries for several years. The labour involved in rearranging and properly classifying a large library which has for a long time been growing up in hopeless confusion under some primitive numerical plan, is certain to deter many librarians or committees from undertaking the work. But the gradual adoption of scientific systems here and there in Britain points to the ultimate extension of close classifications to all kinds of libraries.

The plea frequently advanced that in small libraries close classification upon the shelves is unnecessary has scarcely any force in these times, as, owing to the cheapness of books and the increase of means, libraries are growing at a rate hitherto unknown. This is, therefore, a good reason for urging that libraries should be classified from their very foundations in such a way that, when mere topics have grown as large in bulk as original main classes, they shall be found together on the shelves, and not scattered over the whole collection. The practical convenience of this could be illustrated by a hundred instances; but most librarians are painfully aware of the drawbacks, which need not now be recapitulated.<sup>1</sup>

The necessity for training library assistants thoroughly in all that pertains to the educational side of their work points to the

<sup>1</sup> See the *Library* for 1897, p. 143, article on "Cataloguing and Classification," by J. D. Brown.

need for such classificatory systems as will enable them to supply or suggest sources of information as quickly and effectually as possible, and this can only be accomplished by means of an arrangement which gathers as far as possible in one place all books on the same subject. It is only by this means that librarians or assistants can hope to become familiar with the material aspect of books on important subjects, and thereby be tempted to search for information which can only be obtained by enormous labour if the books on a subject are scattered about in several hundreds of different places. In fact it is obvious that, with subjects widely separated in a large library, assistants will be disinclined to hunt for information which can only be found after severe physical exertion by actual examination of books. No catalogue describes books so minutely that readers can obtain a good general idea of their scope and contents, and it is therefore in the public interest that books should be so arranged as to be accessible for easy reference in minute sub-divisions under main classes. The ambition of the modern librarian to be considered a man of learning and method, as expressed at every conference of the Library Association, is another good reason why he should justify his claims by the use of practical scientific systems in place of elementary and inconvenient ones. This sort of simplicity may be all right for an easy start in library methods ; but it is in after-years, when rapid and continuous growth has made libraries into gigantic stores of unclassified and widely distributed books, that the unwise of such unmethodical practice is demonstrated. There are plenty of old libraries now, which have grown up in a haphazard way, waiting for complete reorganisation on systematic lines. But the labour involved is too considerable to be lightly faced ; and so the work is postponed, till ultimately it will assume gigantic dimensions, and cost comparatively large sums to execute.

## CHAPTER II

### *THE CLASSIFICATION OF KNOWLEDGE*

13. BEFORE proceeding to describe the more important schemes which have been devised for the systematic classification of books in libraries and catalogues, it may be useful to the student to have before him a few simple facts concerning the classification of human knowledge generally. It has a very close relationship to the classification of knowledge contained in books, and so forms part of the subject. The study of nature in all its branches, and the sciences which have resulted in consequence, must at a very early period have turned the attention of enquirers to the necessity for some kind of order in the pursuit of different studies. As knowledge accumulated and observations were recorded, it would be forced upon the understanding of general scientists in early times that, although study of the stars and of plants was investigation of nature, there was nevertheless strong reason for keeping separate accounts of each class of phenomena. To mix facts concerning both in one huge series would certainly be to keep a record of acquired knowledge; but little of the information could be useful, because not kept in a form to show relationships and differences. It has been well said<sup>1</sup> that "the first necessity which is imposed upon us by the constitution of the mind itself is to break up the infinite wealth of nature into groups and classes of things, with reference to their resemblances and affinities, and thus to enlarge the grasp of our mental faculties, even at the expense of sacrificing the minuteness of information

<sup>1</sup> *Treatise on Logic*. By Francis Bowen. (Cambridge, Mass.: 1866.)

which can be acquired only by studying objects in detail. The first efforts in the pursuit of knowledge, then, must be directed to the business of classification." Every student of science is agreed as to this, and from early times various attempts have been made to tabulate and arrange the different kinds of knowledge, either as a whole or in sections. Huxley, altered by Jevons,<sup>1</sup> has defined the process of classification as follows: "By the classification of any series of objects is meant the actual or ideal arrangement together of those which are like and the separation of those which are unlike, the purpose of this arrangement being, primarily, to disclose the correlations or laws of union of properties and circumstances, and, secondarily, to facilitate the operations of the mind in clearly conceiving and retaining in the memory the characters of the objects in question." In most modern works on Logic definitions and explanations are given of classification as applied to science and knowledge generally. One of the most complete treatises of this kind, which students will find of value, is contained in *The Principles of Science: a Treatise on Logic and Scientific Method*, by W. Stanley Jevons (London: 1874), and later editions. Other works which may be profitably read on the subject at large are John Stuart Mill's *Logic*, any recent edition; Jevons' *Logic*; and Fowler's *Inductive Logic*.

14. As regards most of the older classifications of knowledge, the works of Edward Edwards<sup>2</sup> and Julius Petzholdt<sup>3</sup> give full information. The former is very exhaustive in his descriptions and tables; the latter usually gives concise summaries, and, being later, is necessarily more complete than Edwards. From these and other works we have gathered a few brief particulars which will help students to trace the historical development of the classification of knowledge, and enable them to estimate the value of successive efforts and their bearing on the arrange-

<sup>1</sup> *Principles of Science* (Ed. 1892), p. 677.

<sup>2</sup> *Comparative Table of the Principal Schemes proposed for the Classification of Libraries* (Manchester: 1855); and *Memoirs of Libraries* (1859), Vol. II., pp. 761-831.

<sup>3</sup> *Bibliotheca Bibliographica*. (Leipzig: 1866.)

ment of libraries. One of the best and most influential schemes is that of Francis Bacon, Lord Verulam, first issued in 1623. It divides all knowledge into three main divisions, and subdivides each, as follows :

**Bacon's Scheme (1623)**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>CLASS I. HISTORY (<i>Memory</i>)</b></p> <ol style="list-style-type: none"> <li>1. Natural History</li> <li>2. Civil History             <ol style="list-style-type: none"> <li>a. Ecclesiastical</li> <li>b. Literary</li> <li>c. Civil, Proper</li> </ol> </li> </ol> <p><b>CLASS II. PHILOSOPHY (<i>Reason</i>)</b></p> <ol style="list-style-type: none"> <li>1. Science of God</li> <li>2. Science of Nature             <ol style="list-style-type: none"> <li>a. Primary Philosophy</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>b. Physics</li> <li>c. Metaphysics</li> <li>d. Magic</li> <li>e. Natural Philosophy</li> </ol> <p>3. Science of Man</p> <p><b>CLASS III. POETRY (<i>Imagination</i>).</b></p> <ol style="list-style-type: none"> <li>1. Narrative Poetry</li> <li>2. Dramatic Poetry</li> <li>3. Allegorical Poetry</li> </ol> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

In 1767 D'Alembert, the French philosopher, extended this scheme, making it more suitable for the state of science in his day. His main classes and sub-divisions are as follow :

**Bacon-D'Alembert (1767)**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>CLASS I. HISTORY</b></p> <ol style="list-style-type: none"> <li>1. Sacred History</li> <li>2. Ecclesiastical History</li> <li>3. Civil History</li> <li>4. Natural History</li> </ol> <p><b>CLASS II. PHILOSOPHY</b></p> <ol style="list-style-type: none"> <li>1. General Metaphysics, or Ontology</li> <li>2. Science of God             <ol style="list-style-type: none"> <li>a. Natural Religion</li> <li>b. Revealed Religion</li> <li>c. Science of Good and Evil</li> </ol> </li> <li>3. Science of Man             <ol style="list-style-type: none"> <li>a. Universal Pneumatology</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>b. Arts of Thinking, Retaining, Communicating (= Logic, Writing, Printing, Declamation, Symbolism, Grammar, Rhetoric)</li> <li>c. Morals (= Ethics, Jurisprudence, Commerce)</li> </ol> <p>4. Science of Nature</p> <ol style="list-style-type: none"> <li>a. Mathematics</li> <li>b. Physics</li> </ol> <p><b>CLASS III. POETRY</b></p> <ol style="list-style-type: none"> <li>1. Narrative Poetry</li> <li>2. Dramatic Poetry</li> <li>3. Allegorical Poetry</li> <li>4. Music, Painting, Sculpture, Architecture, Engraving</li> </ol> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Other amplifications of Bacon's scheme have been issued by later authorities ; but the most practical is that of W. T.

Harris, described in Section 35, and, with other attempts based on Bacon, is sometimes called the "Inverted Baconian" classification.

15. In the natural sciences, particularly Zoology and Botany, classification has been studied from early times, and numerous methods have been proposed. Many of these were purely artificial, and at one time it was thought that botanical classification was settled for all time by the system of Linnæus. Advances in biological knowledge have, however, completely upset this once-universal classification, which bears a striking analogy to the class-numerical or other empirical methods of book arrangement described in Chapter I. Like them, it is largely arbitrary, and also tends to crystallise and stagnate. As John Stuart Mill observes<sup>1</sup>: "The only purpose of thought which the Linnæan classification serves is that of causing us to remember better than we should otherwise have done the exact number of stamens and pistils of every species of plants. . . . The effect of such a classification, when systematically adhered to, upon our habit of thought, must be regarded as mischievous." There can be little doubt of this so far as book classification in broad numerical divisions is concerned, and the history of the Linnæan classification furnishes another instance of the same kind of confusion resulting from the effort to substitute mere arithmetical progression for intrinsic values and kinds. John Locke, the philosopher, sought to classify all science (in 1688) under three main heads as follows :

**Locke's Scheme for Science (1688)**

PHYSICS	1. Natural Philosophy ; 2. Mental Philosophy ; 3. Natural Theology
OPERATIVE SKILL	1. Ethics ; 2. Mechanical Art ; 3. Fine Arts
SIGN KNOWLEDGE	1. Logic ; 2. Language ; 3. Rites, Ceremonies, Customs, Fashions, etc.

This has not been adopted, so far as we know, and, like the Linnæan botanical classification, is no longer more than a curiosity.

<sup>1</sup> *System of Logic.*

16. We will pass over the numerous other methods for the classification of all, or scientific, knowledge which come between that of Bacon and Coleridge, as they have very little practical value, though all are of great interest, particularly that of Jeremy Bentham, first published in his *Crestomathia* (1816). The method of Samuel Taylor Coleridge was included in his "Essay on Method," forming the introduction to the *Encyclopædia Metropolitana* (1826); and though it is supposed to have been edited after it left his hands, is presented here in the form which has been preserved:

Coleridge's Scheme (1826)

CLASS I. PURE SCIENCES

1. Formal Sciences

- a. Grammar
- b. Logic
- c. Rhetoric
- d. Mathematics
- e. Metaphysics

2. Real Sciences

- a. Law
- b. Morals
- c. Theology

CLASS II. MIXED AND APPLIED SCIENCES

- 1. Mechanics
- 2. Hydrostatics

3. Pneumatics

- 4. Optics
- 5. Astronomy
- 6. Experimental Philosophy
- 7. Fine Arts
- 8. Useful Arts
- 9. Natural History
- 10. Medicine

CLASS III. HISTORY

- 1. National History
- 2. Biography
- 3. Geography, Voyages, and Travels
- 4. Chronology

CLASS IV. LITERATURE AND PHILOLOGY

17. The last of the classifications of all knowledge which we shall mention is that published in America by Dr. W. D. Wilson in his *Treatise on Logic* (New York: 1856). Like most of the American methods, this is practical, and more minute than many other previous schemes, though it bears a considerable general likeness to a classification proposed by Lord Lindsay in his *Progression by Antagonism* (London: 1845), which has for its main classes:

- I. Revelation
- II. Poetry
- III. Science
- IV. Philosophy
- V. Bibliography and Collections



Wilson's method will strike modern librarians as lacking in places for such classes as Language and pure Literature (Poetry is included, but not Fiction, etc.):

**W. D. Wilson's Scheme (1856)**

**CLASS I. THEORETICAL SCIENCES**

**Section 1. Exact Sciences**

1. Meteorology
2. Ouranography
3. Geology
4. Geography
5. Chemistry
6. Mineralogy
7. Anatomy
8. Physiology
9. Botany
10. Zoology
11. Ethnology
12. Psychology
13. History

**Section 2. Pure Sciences**

1. Arithmetic
2. Geometry
3. Algebra
4. Calculus
5. Trigonometry
6. Analytic Geometry
7. Analytics
8. Method
9. Ontology

**CLASS II. PRACTICAL SCIENCES**

**Section 1. Mixed Sciences**

1. Mechanics
2. Astronomy
3. Hydrostatics
4. Hydraulics

5. Pneumatics

6. Acoustics

7. Optics

**Section 2. Ethical Sciences**

1. Ethics
2. Polity
3. Natural Religion
4. Jurisprudence
5. Ecclesiastical Polity
6. Revealed Religion

**CLASS III. PRODUCTIVE SCIENCES OR ARTS**

**Section 1. Fine Arts**

1. Gardening
2. Architecture
3. Sculpture
4. Painting
5. Music
6. Poetry

**Section 2. Useful Arts**

1. Agriculture
2. Metallurgy
3. Technology
4. Typography
5. Engraving
6. Commerce
7. Medicine
8. Rhetoric
9. Political Economy
10. War

18. As classifications of Science are the most difficult, owing to the continual progress of discovery and the changes or modifications thereby introduced, we shall briefly consider a few points likely to be useful to library assistants. The two

principal sciences possessing classifications which to any extent affect the arrangement of books are Zoology and Botany. Nearly every text-book on these subjects has tables, and in accordance with the arrangement therein set forth books may be arranged on the shelves or in the catalogue. The examination papers of the Library Association have on several occasions contained questions such as, "Where in a zoological classification would a book on Beetles go?" "What is meant by Lepidoptera?" etc.; and as there seems to be much need for a series of tables embodying such information in a simple form, we have selected several systems of classification from elementary zoological text-books of old and recent dates which will no doubt be helpful to students of classification. It may be explained that, so far as the classification of biological books is concerned, it matters little whether Zoology or Botany is arranged on the evolutionary principle of progression from lowest to highest forms of life, or from highest to lowest forms. In either case it simply means looking backwards or forwards, and does not affect the question, very frequently enlarged upon, of the arrangement of general text-books to insure that students will begin with the simpler forms of life and work upwards to more complicated forms. The first zoological classification which we shall give is representative of the science as it existed about 1845, and we have ventured to add typical examples of each order to render the nomenclature more intelligible.

**Zoological Classification<sup>1</sup>**

VERTEBRATES	Order 6. Cetacea (Whales, Seals, etc.)
CLASS MAMMALIA	
Order 1. Bimana (Man)	" 7. Rodentia (Rats, Beavers, Hares)
" 2. Quadrumana (Apes)	" 8. Edentata (Sloths, Pangolins)
" 3. Cheiroptera (Bats)	" 9. Ruminantia (Deer, Cattle, Sheep)
" 4. Insectivora (Insect-eaters)	
" 5. Carnivora (Flesh-eaters: Lions, etc.)	

<sup>1</sup> From Carpenter's *Zoology*, 2 vols.

- Order 10. Pachydermata (Elephants, Horses, Pigs)  
 " 11. Marsupialia (Kangaroos, Pouched animals)  
 " 12. Monotremata (Egg-laying mammals)
- CLASS BIRDS  
 Order 1. Raptores (Eagles, Vultures, Owls)  
 " 2. Insesores (Perching birds, 4 tribes)  
 " 3. Scansores (Parrots, Cuckoos)  
 " 4. Rasores (Pigeons, Pheasants, Fowls)  
 " 5. Cursores (Ostriches)  
 " 6. Grallatores (Waders: Bustards, Cranes)  
 " 7. Natatores (Swans, Ducks, Gulls)
- CLASS REPTILES  
 Order 1. Chelonia (Turtles)  
 " 2. Loricata (Crocodiles)  
 " 3. Sauria (Lizards)  
 " 4. Ophidia (Snakes)
- CLASS BATRACHIA (Frogs)  
 Order 1. Anura  
 " 2. Urodela  
 " 3. Amphipneusta  
 " 4. Apoda  
 " 5. Lepidota
- CLASS FISHES  
 Order 1. Selachii  
 " 2. Ganoidei  
 " 3. Teleostei  
 " 4. Cyclostomi  
 " 5. Leptocardi
- INVERTEBRATES  
 CLASS INSECTS  
 Order 1. Coleoptera (Beetles)  
 " 2. Orthoptera (Grasshoppers)
- Order 3. Physopoda  
 " 4. Neuroptera (Dragonflies)  
 " 5. Hymenoptera (Bees, Wasps, Ants)  
 " 6. Lepidoptera (Butterflies, Moths)  
 " 7. Rhynchota  
 " 8. Diptera (Flies)  
 " 9. Aphaniptera  
 " 10. Anoplura  
 " 11. Mallophaga  
 " 12. Thysanoura
- CLASS MYRIAPODA (Centipedes)  
 Order 1. Chilopoda  
 " 2. Chilognatha
- CLASS ARACHNIDA (Spiders, etc.)  
 Order 1. Pulmonaria  
 " 2. Trachearia
- CLASS CRUSTACEA (Crabs, Lobsters, etc.)  
 Order 1. Decapoda } Podoph-  
 " 2. Stomapoda } thalma  
 " 3. Amphipoda } Edrioph-  
 " 4. Læmodipoda } thalma  
 " 5. Isopoda }  
 " 6. Xyphosura }  
 " 7. Phyllopora } Entomos-  
 " 8. Cladocera } traca  
 " 9. Ostracoda }  
 " 10. Copepoda }  
 " 11. Siphonostoma }  
 " 12. Lernæida }  
 " 13. Cirrhopoda }  
 " 14. Araneiformia }
- CLASS ANNELIDA  
 Order 1. Dorsibranchiata  
 " 2. Tubicola  
 " 3. Terricola  
 " 4. Suctoria
- CLASS ENTOZOA  
 CLASS ROTIFERA

CLASS CEPHALOPODA (Cuttlefish)	CLASS POLYZOA
Order 1. Dibranchiata	CLASS ECHINODERMATA (Starfish)
" 2. Tetrabranchiata	Order 1. Echinida
CLASS GASTROPODA (Snails, etc.)	" 2. Stellerida
Order 1. Pulmonifera	" 3. Crinoidea
" 2. Prosobranchiata	" 4. Holothurida
" 3. Opisthobranchiata	CLASS OF POLYPIFERA
" 4. Heteropoda	Order 1. Helianthoida
CLASS PTEROPODA	" 2. Asteroida
CLASS LAMELLIBRANCHIATE	CLASS OF HYDROZOA
CONCHIFERA	Order 1. Hydroida
Order 1. Asiphonata	" 2. Discophora
" 2. Siphonata	" 3. Ctenophora
CLASS PALLIOBRANCHIATA	" 4. Siphonophora
CLASS TUNICATA	PROTOZOA
Order 1. Ascidiæ	Class 1. Infusoria
" 2. Salpæ	" 2. Rhizopoda
	" 3. Porifera

Later classifications are more compressed; but the main classes are much the same, though nearly every naturalist has introduced various modifications to suit his own views. A comparatively modern classification, such as that set forth below,<sup>1</sup> represents the present-day ideas on the subject.

#### Modern Zoological Classification

SUB-KINGDOM I. VERTEBRATA	Ord. 10. Effodientia (Pangolins)
CLASS 1. MAMMALS	" 11. Marsupialia (Pouched mammals)
Ord. 1. Primates (Apes)	" 12. Monotremata (Egg-laying mammals)
" 2. Chiroptera (Bats)	CLASS 2. AVES (BIRDS)
" 3. Insectivora (Insect-eaters)	Two Sub-classes and 34 Orders
" 4. Carnivora (Flesh-eaters)	CLASS 3. REPTILES
" 5. Rodentia (Gnawers)	Ord. 1. Crocodilia
" 6. Ungulata (Hoofed animals)	" 2. Chelonina (Tortoises)
" 7. Sirenia (Manatees)	" 3. Squamata (Lizards, Snakes)
" 8. Cetacea (Whales)	" 4. Rhynchocephalia (Quatera)
" 9. Edentata (Sloths)	

<sup>1</sup> Lydekker's *Concise Natural History* (1897).

- CLASS 4. AMPHIBIANS  
 Ord. 1. Ecaudata (Frogs)  
 „ 2. Caudata (Newts)  
 „ 3. Apoda (Cæcilians)
- CLASS 5. FISHES  
 Four Sub-classes
- CLASS 6. CYCLOSTOMA (Lampreys)  
 CLASS 7. PROTOCHORDA (Lancelets)  
 CLASS 8. HEMICHORDA
- SUB-KINGDOM II. ARTHRO-  
 PODA
- CLASS 1. CRUSTACEA (Crabs, Lob-  
 sters)
- CLASS 2. ARACHNIDA (Spiders)  
 CLASS 3. MYRIOPODA (Centipedes)  
 CLASS 4. PROTRACHEATA  
 CLASS 5. INSECTS  
 Ord. 1. Coleoptera (Beetles)  
 „ 2. Orthoptera (Grasshoppers)  
 „ 3. Neuroptera (Dragonflies)  
 „ 4. Hymenoptera (Bees,  
 Wasps, Ants)  
 „ 5. Lepidoptera (Butterflies,  
 Moths)  
 „ 6. Hemiptera (Bugs, etc.)  
 „ 7. Diptera (Flies)
- SUB-KINGDOM III. MOL-  
 LUSCA (Oysters, Snails,  
 Cuttlefish)
- CLASS 1. AMPHINEURA  
 CLASS 2. PELECYPODA (Bivalves)  
 CLASS 3. SCAPHOPODA  
 CLASS 4. GASTROPODA (Snails,  
 Limpets)  
 CLASS 5. CEPHALOPODA (Nautilus,  
 Cuttlefish)
- SUB-KINGDOM IV. BRA-  
 CHIOPODA (Lampshells)
- SUB-KINGDOM V. ECHINO-  
 DERMA (Starfish)
- SUB-KINGDOM VI. BRYOZOA  
 (Polyzoa : Seamats)
- SUB-KINGDOM VII. VERMES  
 (Worms)
- SUB-KINGDOM VIII. CÆ-  
 LENTERA (Sponges, Corals)
- SUB-KINGDOM IX. PROTO-  
 ZOA (Animalculæ : Lowest  
 forms)

19. We will conclude this part of the work by a selection of three botanical classifications. The first, which represents the older systems of Bentham and Hooker, is that published in the later editions of Henfrey's *Botany*, and is not arranged on the evolutionary principle.

#### Botanical Classification

- |                              |                             |
|------------------------------|-----------------------------|
| DIVISION I. PHANEROGAMIA     | Class 1. Vascularia         |
| Sub-division 1. Angiospermia | „ 2. Muscineæ               |
| Class 1. Dicotyledones       | „ 3. Charales               |
| „ 2. Monocotyledones         | Sub-division 2. Thallophyta |
| Sub-division 2. Gymnospermia | Class 1. Algæ               |
| DIVISION II. CRYPTOGRAMIA    | „ 2. Fungi                  |
| Sub-division 1. Cormophyta   | „ 3. Protophyta             |

The subject of botanical classification in its historical aspect is treated at some length in Sachs' *History of Botany (1530-1860)* (Oxford: 1890). The methods of Linnæus and Jussieu have little practical value for modern book-classifiers, and the reference to Sachs will probably meet every want. A comparatively recent classification is the following,<sup>1</sup> which is arranged on the evolutionary plan:

**Modern Botanical Classification, 1**

GROUP 1. THALLOPHYTA	Class 6. Equisetaceæ
Class 1. Algæ	,, 7. Lycopodiinæ
,, 2. Fungi	
GROUP 2. MUSCINEÆ	GROUP 4. PHANEROGAMIA
Class 3. Hepaticæ	A. Gymnospermæ
,, 4. Musci	Class 8. Gymnospermæ
	B. Angiospermæ
GROUP 3. PTERIDOPHYTA	Class 9. Monocotyledones
Class 5. Filicinæ	,, 10. Dicotyledones

Another variation of the evolutionary arrangement is the following<sup>2</sup>:

**Modern Botanical Classification, 2**

GROUP 1. THALLOPHYTES	GROUP 3. VASCULAR CRYPTOGAMS
1. Myxomycetes (Naked proto- plasm)	1. Filicinæ (Ferns)
2. Diatomacæ (Diatoms)	2. Equisetinæ
3. Schizophyta	3. Sphenophyllæ
4. Algæ (Seaweeds)	4. Lycopodinæ
5. Fungi (Mushrooms)	GROUP 4. PHANEROGAMS (Flower- ing plants)
GROUP 2. MUSCINEÆ (Mosses)	1. Gymnospermæ (Naked seeds)
1. Hepaticæ (Liverworts)	2. Angiospermæ (Enclosed seeds)
2. Musci (Mosses)	

The classification of Chemistry, Mineralogy, Crystallography, Geology, etc., is not of a nature to be helpful save in special libraries, and all that is needful to gain an inkling of its principle may be gleaned from any text-book.

<sup>1</sup> From Prantl's *Botany*.

<sup>2</sup> From Goebel's *Outlines of Classification and Special Morphology of Plants* (1887).

20. The student of classification who wishes to pursue the subject in general in more detail will find much of interest in the authorities we have already mentioned, while additional matter will be found in such works as *Remarks on Classification of Human Knowledge*, by Sir J. W. Lubbock (London: 1834); *Essay on the Classification and Geographical Distribution of the Mammalia*, by Sir Richard Owen; *History of the Inductive Sciences*, by Whewell; *Lectures on the Elements of Comparative Anatomy, and on the Classification of Animals*, by T. H. Huxley (1864); *The Classification of the Sciences*, by Herbert Spencer; *Zoological Classification*, by F. P. Pascoe (1880); *Synopsis of the Classification of the Animal World*, by H. A. Nicholson (1882); Fothergill, *Zoological Types and Classification* (1891); and scientific text-books in general.

## CHAPTER III

### *SCHEMES FOR THE CLASSIFICATION OF BOOKS AND CATALOGUES*

**21.** HITHERTO we have been considering the arrangement of books on library shelves and the methodical classification of knowledge as it affects the classification of books. This chapter is concerned with the many important methods which have been devised within the past four hundred years for arranging libraries and their catalogues in groups of related subjects without making special provision for marking their order and place on the shelves. Although many of the later systems provide minute numerical or alphabetic signs to denote the order and place of topics in the scheme, such signs are not necessarily to be considered as furnishing a system of shelf-marking. What may be termed combination systems of classification and shelf-marking are described in Chapter IV.

**22.** Some of the earliest attempts at book classification were made for commercial purposes, and it may be assumed that convenience was the object aimed at in grouping together in printed lists the titles of books on kindred topics. Soon this plan was found necessary in libraries, either alone or in combination with lists of authors. It is quite evident that no motive of pedantry moved the old booksellers to attempt classified lists, as has been assumed by certain writers, but the practical idea of displaying their wares in a manner to attract customers. It is vain therefore for those who denounce exact classification and classified catalogues to attribute to



the users of methodical arrangements the foolish desire to be considered cleverer than their neighbours. Practical convenience was the sole cause, and any one who cares to investigate the matter will find that the methods of the early bookseller are used at the present time, not only by our humble costermongers (Section 1), but by every class of tradesman who has goods for sale. As regards booksellers, Edwards has pointed out<sup>1</sup> that the character of their classification seems to have been determined by their stock-in-trade, and he cites the divisions used by the elder Aldus, the printer, in a catalogue of Greek books, 1498, which was divided into five groups, thus :

- |               |                    |
|---------------|--------------------|
| 1. Grammatica | 4. Philosophia     |
| 2. Poetica    | 5. Sacra Scriptura |
| 3. Logica     |                    |

This is one of the earliest examples of rudimentary classification in a catalogue of printed books. Another early scheme for book classification was that devised by Conrad Gesner in 1548, which has been regarded as "the first bibliographical system." This scheme has twenty-one main classes grouped together in a kind of genealogical sequence under the head of "Philosophia, comprehendit Artes et Scientias." The arrangement of classes is as follows :

- |                              |                                                        |
|------------------------------|--------------------------------------------------------|
| 1. Grammatica et Philologica | 13. De diversibus artibus illiteratis, mechanica, etc. |
| 2. Dialectica                | 14. De Naturali Philosophia                            |
| 3. Rhetorica                 | 15. Metaphysica et Theologia                           |
| 4. Poetica                   | 16. De Morali Philosophia                              |
| 5. Arithmetica               | 17. De Philosophia Economica                           |
| 6. Geometria, Optica, etc.   | 18. De re Politica Id et Civili ac Militari            |
| 7. Musica                    | 19. De Jurisprudentia                                  |
| 8. Astronomia                | 20. De re Medica                                       |
| 9. Astrologia                | 21. De Theologia Christiana                            |
| 10. De Divinatione et Magia  |                                                        |
| 11. Geographia               |                                                        |
| 12. Historia                 |                                                        |

The earliest English bookseller's catalogue was that of Andrew

<sup>1</sup> *Memoirs of Libraries*, Vol. II., p. 761.

**Maunsell**, issued at London in 1597, under the title *Catalogue of English printed bookes . . . gathered into alphabet, and such method as it is*. It was published in two parts, the first comprising Divinity and the second Science.

23. Fifty-three years after this appeared the earliest systematic work on modern libraries, in which are given a few slight indications of what was then looked for in catalogues. To **John Durie**, a Scots author, we owe a little work entitled *The Reformed Librarie-keeper* (London: 1650), containing, among other interesting matter, the following notes on classification and cataloguing as then understood: "All the books and manuscripts, according to the titles whereunto they belong, are to bee ranked in an order most easie and obvious to bee found, which I think is that of Sciences and languages, when first all the books are divided into their *subjectum materiam* whereof they treat." This indicates preference for classification in the catalogue; and he further advocates a shelf notation as follows: "In the printed catalogue a reference is to bee made to the place where the books are to be found in their shelves or repository." As a further guide he recommends "a catalogue of their Titles made alphabetically in reference to the autor's name with a note of distinction to shew the science to which they are to be referred." This is clearly a class catalogue with an author index, such as continued to be used long after Durie's time. His views were enforced nearly fifty years later by another Scot, the Rev. **James Kirkwood**, in an anonymous tract entitled *An Overture for founding and maintaining of bibliotheks in every paroch throughout the kingdom* [Scotland] (1699). He states that under his plan every parish library is to have "exact alphabetical catalogues" giving particulars of "the place where, and the time when, they [books] are printed." As regards classification, he writes: "It will be convenient that all the Bibliotheks in the kingdom observe the same method of ranking and placing their books, which method may be to rank the books according to their name and number in the general catalogue." The method of printing catalogues in broad classified sections continued for

long to be the practice in libraries and among booksellers, though as great diversity of system existed then as now; some catalogues being partly indexed as Durie recommends, but most of them being simply set out in large sections. Another early example of a trade catalogue, somewhat akin to Maunsell's, was that issued by William London in 1658, entitled *A Catalogue of the most vendible books in England orderly digested, under the heads of divinity, history, physic, law, etc.* (London). These two lists were the forerunners of the more elaborate inventories of Low and Sonnenschein, as well as the less-known *London Catalogue of Books . . . from the year 1700, properly classed under the general branches of literature, and alphabetically disposed under each head* (1773).

24. Having now briefly described the methods of book classification in use in this country during the seventeenth and eighteenth centuries, we can turn to the methods of other countries. In France a method was introduced in the latter part of the seventeenth century which proved of immense value and influence, being used at the present time in various modified forms. The groundwork of this system, described indifferently as the "Paris" or "French" system, also as "De Bure's" or "Brunet's" system, was laid by Jean Garnier, a Jesuit, or Ismael Bouillaud, the compiler of the catalogue of De Thou's Library. This method was altered successively by Gabriel Martin, De Bure, Brunet, Barbier, and Achard, and forms the basis of many modern systems. It is not necessary to display the various plans in detail, the differences not being very important after the changes made by De Bure and Brunet. We will, however, just quote the main classes of

#### Garnier's Scheme

Class 1. Theology	Class 5. History
" 2. Philosophy	" 6. Jurisprudence
" 3. Medicine	" 7. Heterodoxy
" 4. Literature	

What may be termed the settled French scheme as used by Brunet and others was as follows :

## French Scheme

## CLASS I. THEOLOGY

1. Holy Scriptures
2. Sacred Philology
3. Liturgies
4. Councils
5. Fathers
6. Collective Works of Theologians
7. Singular and Fanatical Sects and Opinions
8. Judaism
9. Oriental Religions
10. Deism, etc.

## CLASS II. JURISPRUDENCE

1. General Treatises on Law
2. Natural and International Law
3. Political Law
4. Civil and Criminal Law
5. Canon and Ecclesiastical Law

## CLASS III. SCIENCES AND ARTS

1. Dictionaries and Encyclopædias
2. Philosophical Sciences
3. Physical and Chemical Sciences
4. Natural Sciences
5. Medical Sciences

## 6. Mathematical Sciences

7. Mnemonics
8. Fine Arts
9. Mechanical Arts and Trades
10. Gymnastics—Recreative Arts and Games

## CLASS IV. POLITE LITERATURE

1. Introductory Works
2. Linguistics
3. Rhetoric
4. Poetry
5. Prose Fiction
6. Philology
7. Dialogues, etc.
8. Letters
9. Polygraphy
10. Collective Works—Miscellanies

## CLASS V. HISTORY

1. Historical Prolegomena
2. Universal History
3. History of Religions, etc.
4. Ancient History
5. Modern History
6. Historical Paralipomena

An important English modification of this method was that of Thomas Hartwell **Horne**, the bibliographer, whose *Introduction to the Study of Bibliography* (1814) is a well-known work. He published his plan in *Outlines for the Classification of a Library* (London: 1825), and its leading classes and subdivisions were as follows :

## Horne's Scheme

## CLASS I. THEOLOGY OR RELIGION

1. Introductory Works
2. Natural Religion
3. Revealed Religion
  - a. Holy Scriptures
  - b. Sacred Philology
  - c. Councils and Ecclesiastical Polity

## d. Liturgies

- e. Fathers and Collected Works of Theologians
- f. Scholastic Divinity
- g. Systematic Divinity
- h. Moral and Casuistical Divinity
- i. Catechetical Divinity

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>I. <i>k.</i> Polemical Divinity           <ul style="list-style-type: none"> <li><i>l.</i> Pastoral Divinity</li> <li><i>m.</i> Hortatory Divinity</li> <li><i>n.</i> Mystical and Ascetical Divinity               <ul style="list-style-type: none"> <li><i>o.</i> Miscellaneous Treatises</li> </ul> </li> </ul> </li> <li>4. History of Religions</li> </ul> <p><b>CLASS II. JURISPRUDENCE</b></p> <ul style="list-style-type: none"> <li>1. Public Universal Law</li> <li>2. Ancient Civil and Feudal Law</li> <li>3. Canon Law</li> <li>4. British Law</li> <li>5. Foreign Law</li> </ul> <p><b>CLASS III. PHILOSOPHY</b></p> <ul style="list-style-type: none"> <li>1. Introductory Works—Encyclopædias, etc.</li> <li>2. Intellectual Philosophy</li> <li>3. Moral and Political Philosophy</li> <li>4. Natural Philosophy</li> <li>5. Mathematical Philosophy</li> </ul> <p><b>CLASS IV. ARTS AND TRADES</b></p> <ul style="list-style-type: none"> <li>1. History of Arts</li> </ul> | <ul style="list-style-type: none"> <li>2. Liberal Arts</li> <li>3. Economical Arts, Trades and Manufactures</li> <li>4. Gymnastic and Recreative Arts</li> </ul> <p><b>CLASS V. HISTORY</b></p> <ul style="list-style-type: none"> <li>1. Historical Prolegomena</li> <li>2. Universal History</li> <li>3. Particular History           <ul style="list-style-type: none"> <li><i>a.</i> Ancient</li> <li><i>b.</i> Middle Ages</li> <li><i>c.</i> Modern</li> </ul> </li> <li>4. Biographical and Monumental History</li> <li>5. Historical Extracts and Miscellanies.</li> </ul> <p><b>CLASS VI. LITERATURE</b></p> <ul style="list-style-type: none"> <li>1. Literary History and Biography</li> <li>2. Polite Literature           <ul style="list-style-type: none"> <li><i>a.</i> Grammar</li> <li><i>b.</i> Philology and Criticism</li> <li><i>c.</i> Rhetoric and Oratory</li> <li><i>d.</i> Poetry</li> <li><i>e.</i> Literary Miscellanies.</li> </ul> </li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

25. Returning to British systems, reference may be made to the old classification of the **London Institution**, devised by Richard Thomson, E. W. Brayley, and William Maltby, and appearing in the *Catalogue of the Library of the London Institution systematically classed* (London: 1835). The main feature of this method is the synoptical table of classes arranged under such main heads as Theology, Jurisprudence, Philosophy, Mathematics, etc., sub-divided in somewhat inexact sections. The most extraordinary point in connection with this particular scheme is the plan adopted of locating classes by their positions over fireplaces, in recesses or galleries, etc. Presses indicated by busts of Roman emperors or others surmounting them are common; but to locate Theology or Botany over a fireplace seems a very primitive, not to say prosaic, method of shelf arrangement.

26. About this time (1836-38) the systematic classification used in the British Museum was first applied generally to the

collections in that library. It is somewhat important as the system used in the largest British library possessing unusually valuable stores of books on every conceivable subject, and is therefore interesting as an example of the provision requisite for storing the leading sections of literature to be found in complete libraries. The system is described by Dr. Richard Garnett in the *Transactions of the Library Conference, 1877*; and he explains that only principal sub-divisions are given. We have not set out every sub-division given by Dr. Garnett, but only enough to show the details of the scheme. It bears a slight resemblance to the scheme of Horne, Section 24, but in the multiplication of main classes and details of working out differs from most of the larger classifications with which we are acquainted.

#### British Museum Scheme

- |                                   |                                             |
|-----------------------------------|---------------------------------------------|
| <b>I. THEOLOGY</b>                |                                             |
| 1. Bibles, Polyglot               | 21. Bible Commentaries, Gospels and Acts    |
| 2. Hebrew                         | 22. Epistles                                |
| 3. Greek                          | 23-25. Liturgies                            |
| 4. Latin                          | 26-27. Metrical Psalms, Hymns               |
| 5. French, Italian, Spanish, etc. | 28-80. Prayers, Theology, Sermons           |
| 6. German                         | 81. Mythology                               |
| 7. Dutch and Scandinavian         | 82. Scriptures of Non-Christian Religions   |
| 8. English                        | 83. Jewish History                          |
| 9. Celtic                         | 84-99. Church History, General and National |
| 10. Slavonic                      | 100-102. Missions                           |
| 11. Oriental                      | 103. Religious Fraternities                 |
| 12. American, Polynesian, etc.    | 104. Freemasonry                            |
| 13. Bible Concordances            | 105. Biography, General Religious           |
| 14. Bible Commentaries, General   | 106. Scripture                              |
| 15. Pentateuch                    | 107-109. Saints, Popes, Cardinals           |
| 16. Other Historical Books        | 110-115. Religious, National                |
| 17. Psalms                        | 116. Juvenile Religious                     |
| 18. Prophets and Hagiographa      | 117. Theological Bibliography               |
| 19. Unfulfilled Prophecy          |                                             |
| 20. New Testament, General        | <b>II. JURISPRUDENCE</b>                    |
|                                   | 1. Papal Bulls                              |

- II. 2. Councils  
 3-6. Canon, Ecclesiastical, and Marriage Law  
 7. Roman Law  
 8. Mediæval Jurists  
 9-28. Law, National, Foreign  
 29-33. Jurisprudence, Crime, Prisons, Forensic Medicine  
 34-44. English Law, General and Special  
 45. Trials  
 46-48. Law of Ireland, Scotland, Colonies  
 49-52. Law of United States  
 53. Law of South America  
 54-55. Maritime and Military Law  
 56. Treaties and Conventions  
 57. International Law
- III. NATURAL HISTORY AND MEDICINE  
 1. Natural History, General  
 2. Botany  
 3. Horticulture  
 4. Agriculture  
 5. Mineralogy  
 6. Geology  
 7. Palæontology  
 8. Zoology, General  
 9. Mammalia  
 10. Ornithology  
 11. Herpetology  
 12. Ichthyology  
 13. Domestic Animals (with Veterinary Surgery)  
 14. Entomology  
 15. Conchology, etc.  
 16. Dictionaries of Medicine  
 17-18. Medical Principles and Theses  
 19. Domestic Medicine  
 20. Physiology  
 21. Phrenology, Animal Magnetism, etc.  
 22. Anatomy  
 23-24. Pathology, Therapeutics  
 25. Mineral Waters  
 26. Surgery  
 27. Materia Medica  
 28-36. Diseases, Hospitals, etc.
- IV. ARCHÆOLOGY AND ARTS  
 1-2. Archæology  
 3. Costumes  
 4. Numismatics  
 5. Fine Art, General  
 6-7. Architecture  
 8. Painting and Engraving  
 9. Sculpture  
 10. Music  
 11. Field Sports  
 12. Games of Chance  
 13. Games of Skill  
 14. Useful Arts  
 15. Domestic Economy  
 16-17. Exhibitions, etc.
- V. PHILOSOPHY  
 1-24. Politics (National) Political Economy, etc.  
 25-29. Commerce, Charities, etc.  
 30-33. Education, Schools, etc.  
 34. Moral Philosophy  
 35-37. Marriage, Women, Temperance, etc.  
 38-39. Metaphysical Philosophy  
 40. Logic  
 41. History of Philosophy  
 42-46. Mathematics: Arithmetic, Geometry, etc.  
 47. Astronomy  
 48-50. Astrology, Occult Science, Spiritualism  
 51. Physics  
 52. Optics  
 53. Meteorology  
 54. Electricity  
 55. Mechanics  
 56. Hydrostatics, Hydraulics

- V. 57. Nautical Sciences  
 58. Arms and Military Engines  
 59. Military Art  
 60. Chemistry  
 61. Spectral Analysis  
 62. Photography
- VI. HISTORY  
 1. Chronology  
 2. Universal History  
 3. History, Asia  
 4. Asia, British India  
 5. Africa  
 6-8. Europe, General  
 9. Byzantine and Ottoman  
 10-29. Europe, National  
 30-35. England  
 36-43. America, U.S., Australia  
 44-45. Heraldry, Genealogy  
 46. Pageants, Processions, etc.
- VII. GEOGRAPHY  
 1. Cosmography  
 2. Ethnology  
 3. Circumnavigations  
 4. Voyages in two or more parts of the World  
 5-39. Travels, by Countries  
 40. Hydrography
- VIII. BIOGRAPHY  
 1-19. Collective and National  
 20-22. Epistles
- IX. BELLES LETTRES  
 1. Classical Polygraphy  
 2-8. Homer, Greek and Latin Poets and Orators  
 9-16. Poetry, Italian  
 17-18. Spanish, Portuguese  
 19-21. French, Provençal  
 22-24. German  
 25-26. Dutch, Scandinavian  
 27-28. Slavonic, Celtic, etc.  
 29-41. English  
 42. Poetry, American  
 43-58. Drama, National  
 59. Rhetoric  
 60-61. Literary Criticism and History  
 62. Typography  
 63. Bibliography  
 64. Catalogues  
 65-67. Compendiums, Encyclopædias, etc.  
 68-77. Collected Works of Authors, by Nationalities  
 78. Speeches  
 79. Fables  
 80-81. Proverbs, Anecdotes  
 82. Satire and Facetiæ  
 83. Essays and Sketches  
 84. Fiction, Collected  
 85. Folk-Lore, Fairy Tales  
 86. Early Romances  
 87. Fiction, Italian  
 88. Spanish and Portuguese  
 89. French  
 90. German  
 91. Dutch and Scandinavian  
 92. Slavonic and Hungarian  
 93. English, Collected  
 94. Waverley Novels  
 95. English, Translations  
 96. English, Early  
 97. Republications  
 98. English, General  
 99. Minor  
 100. American  
 101. Tales for Children
- X. PHILOLOGY  
 1. General Philology  
 2. Languages, Semitic  
 3. Other Asiatic and African  
 4. American and Polynesian  
 5. Chinese and Japanese  
 6. Greek



- |                                              |                         |
|----------------------------------------------|-------------------------|
| X. 7. Languages, Latin                       | 14. Languages, Celtic   |
| 8-10. Italian, Spanish, French               | 15. English             |
| 11-13. German, Dutch, Scandinavian, Slavonic | 16. Phonography         |
|                                              | 17. Books for the Blind |

27. The Germans are responsible for a number of schemes dating from that of Leibnitz (1700) to recent times; but most of them are more adapted for the libraries of universities or learned societies than the general public libraries we are familiar with in Britain and the United States. It will be sufficient to name the methods of Ersch (1793), Preusker (1830), and the minute scheme of Thienemann (1847), the main heads of which are given in Edwards' *Memoirs*. Room may be found for some of the chief divisions of Dr. Schleiermacher's method, which is worked out with much elaboration in his *Bibliographisches System der gesammten Wissenschaftskunde*, and condensed by Edwards.

#### Schleiermacher's Scheme

- |                                                            |                                                |
|------------------------------------------------------------|------------------------------------------------|
| CLASS I. Encyclopædias, Literary History, and Bibliography | CLASS VIII. Mathematical and Physical Sciences |
| CLASS II. Polygraphy                                       | CLASS IX. Natural History                      |
| CLASS III. Linguistics and Philology                       | CLASS X. Medicine and Pathology                |
| CLASS IV. Greek and Latin Literature                       | CLASS XI. Industrial and Economical Sciences   |
| CLASS V. Polite Literature in Modern and Oriental Tongues  | CLASS XII. Philosophy                          |
| CLASS VI. Fine Arts                                        | CLASS XIII. Theology                           |
| CLASS VII. Historical Sciences                             | CLASS XIV. Jurisprudence and Politics          |

28. From about 1850 onwards the systems of classification become more practical, more minute, and more in accordance with modern ideas. The advances made in science and the great increase in the publication of technological literature gradually altered the arrangement of main classes and subdivisions. The passing of the Public Libraries Acts in Britain and the immense strides made in library work in the United States tended to direct more attention to the study of classification, and it is from this period that most of the best systems date.

The following classification is very useful and suggestive ; and as the catalogue from which it is taken is well indexed, it forms one of the most complete answers to those who in earlier times doubted the possibility of producing a satisfactory classed catalogue or dismissed the whole type as "logical absurdities." *The Classified Catalogue of the Library of the Royal Institution of Great Britain*, compiled by Benjamin Vincent (London: 1857), has the undernoted main classes and sub-divisions :

**Royal Institution Scheme (1857)**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>CLASS I. THEOLOGY</b><br/>           I. Holy Scriptures (19 sections)<br/>           II. Helps to Study (10)<br/>           III. Apocryphal Writings<br/>           IV. Liturgies (4)<br/>           V. Church Discipline and Government<br/>           VI. Theological Controversy (5)<br/>           VII. Miscellaneous Theology (4)<br/>           VIII. Ecclesiastical History</p> <p><b>CLASS II. GOVERNMENT, POLITICS, JURISPRUDENCE</b><br/>           I. Government and Politics (11)<br/>           II. Jurisprudence (12)<br/>           III. Commerce (4)</p> <p><b>CLASS III. SCIENCES AND ARTS</b><br/>           I. Moral and Intellectual Philosophy (8)<br/>           II. Medical Sciences (13)<br/>           III. Natural History (23 under 5 heads)<br/>           IV. Natural and Experimental Philosophy (25 under 11 heads)<br/>           V. Chemistry (3)<br/>           VI. Mathematical Sciences (9)<br/>           VII. Astronomy (7)<br/>           VIII. Architecture<br/>           IX. Civil Engineering (6)<br/>           X. Navigation and Naval Architecture (3)</p> | <p>XI. Military Art (2)<br/>           XII. Mechanic Arts (2)<br/>           XIII. Fine Arts (5)<br/>           XIV. Music<br/>           XV. Sports and Games<br/>           XVI. Domestic Economy<br/>           XVII. Miscellaneous</p> <p><b>CLASS IV. LITERATURE</b><br/>           I. History and Study of Literature (7)<br/>           II. Bibliography (7)<br/>           III. Language (3)<br/>           IV. Classical Literature (2)<br/>           V. Miscellanea Latina<br/>           VI. Anglo-Saxon<br/>           VII. English Literature (4)<br/>           VIII. French Literature<br/>           IX. Italian Literature<br/>           X. Spanish and Portuguese Literature<br/>           XI. German Literature<br/>           XII. Oriental Literature (5)</p> <p><b>CLASS V. GEOGRAPHY</b><br/>           I. Ancient and Modern Geography (4)<br/>           II. Voyages and Travels (37)</p> <p><b>CLASS VI. HISTORY, MYTHOLOGY, ARCHÆOLOGY, BIOGRAPHY</b><br/>           I. Study of History<br/>           II. Mythology<br/>           III. Archæology (3)</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- |                                                                         |                                                 |
|-------------------------------------------------------------------------|-------------------------------------------------|
| IV. Chronology and Genealogy                                            | II. History of England (12)                     |
| V. Biography (3)                                                        | III. Wales                                      |
| VI. History (29)                                                        | IV. Scotland                                    |
|                                                                         | V. Ireland                                      |
| CLASS VII. BRITISH GEOGRAPHY,<br>ANTIQUITIES, HISTORY, AND<br>BIOGRAPHY | VI. British Biography, Letters,<br>Peerages (4) |
| I. British Geography and Anti-<br>quities (13)                          | VII. Government (4)                             |
|                                                                         | VIII. Honours and Dignities (3)                 |
|                                                                         | IX. Historical Tracts                           |

The classification of Nicholas Trübner, designed for a Bibliographical Catalogue of American Literature, is worthy of mention here as a practical method of arranging books on a special subject.

**Trübner's Scheme (1859)**

- |                           |                                |
|---------------------------|--------------------------------|
| 1. Bibliography           | 17. Useful Arts                |
| 2. Collections            | 18. Military Science           |
| 3. Theology               | 19. Naval Science              |
| 4. Jurisprudence          | 20. Rural and Domestic Economy |
| 5. Medicine               | 21. Politics                   |
| 6. Natural History        | 22. Commerce                   |
| 7. Chemistry and Pharmacy | 23. Belles Lettres             |
| 8. Natural Philosophy     | 24. Fine Arts                  |
| 9. Mathematics, Astronomy | 25. Music                      |
| 10. Philosophy            | 26. Freemasonry                |
| 11. Education             | 27. Mormonism                  |
| 12. Modern Language       | 28. Spiritualism               |
| 13. Philology             | 29. Guide Books                |
| 14. American Antiquities  | 30. Maps                       |
| 15. History               | 31. Periodicals                |
| 16. Geography             |                                |

29. We come now to the most important of the English classifications which for years has formed the basis of a large number of the broad schemes described in Chapter I. This is the very complete method of Edward Edwards, outlined in his *Memoirs of Libraries*, Vol. II., p. 815, and stated by himself to be designed for "the special characteristics and requirements" of public libraries, then only recently established by the Acts of 1850 and 1855. The Manchester Public Library, organised by Edwards, is classified according to this system, and other libraries have adopted some of the main classes and

sub-divisions. The weakest part of the system is, in our opinion, the cumbrous notation or method of briefly indicating the classes. Thus "Ecclesiastical History of England Generally" requires a mark like this, "III -7 § f i," so that such symbols are out of the question for shelf arrangement. The general excellence of this classification marks it as one well adapted for careful study by librarians; and as the method of indicating divisions and sub-divisions seems to act as a stumbling-block to many, we have ventured to simplify them, and present a condensed table of the entire method. We have accordingly applied letters instead of figures to the main classes, retained the original divisional numbers, and noted all further sub-divisions by a second sequence of numbers following a dash. Thus "Ecclesiastical History of England Generally" becomes simply C 7 -5.

#### Edwards' Scheme (1859)

##### CLASS A. THEOLOGY

1. Holy Scriptures
  - 1. Complete Texts
  - 2. Detached Books of O. and N. Tests.
  - 3. Harmonies of O. and N. Tests.
  - 4. Apocryphal Scriptures
  - 5. Bible Histories
2. Sacred Philology
  - 1. Introductions to Bible
  - 2. Commentaries and Paragraphs
  - 3. Concordances and Dictionaries
  - 4. Biblical Antiquities
  - 5. Geography and Natural History of Bible
  - 6. Connexions of Sacred and Profane History
3. Collective Works of Theologians
4. Dogmatic and Polemic Theology
5. Catechetical Theology
6. Pastoral and Hortatory Theology

##### 7. Mystical Theology

8. Liturgies, Rites, and Ceremonies
9. Judaism
10. Natural Theology

##### CLASS B. PHILOSOPHY

1. General and Collective Works
2. Ethics
3. Metaphysics

##### CLASS C. HISTORY

1. Study of History
2. Universal History and Biography [including General Geography and Collections of Voyages]
3. Ancient History and Biography
4. History of the Middle Ages
5. General Ecclesiastical History
6. History of Modern Europe, General [including Travel]
7. History of Great Britain and Ireland, General
  - 1. England, General
  - 2. Before Conquest
  - 3. Individual Reign

- C. 7. -4. United Kingdom, Ecclesiastical History, General  
 -5. England, Ecclesiastical History, General  
 -6. Before Reformation  
 -7. Reformation  
 -8. Post-Reformation  
 -9. History of Dissenters, General  
 -10. History of Dissenters, Denominational  
 -11. England, Parliamentary History  
 -12. United Kingdom, Naval History (also England)  
 -13. Military History (also England)  
 -14. Monetary and Medallic History (also England)  
 -15. England, Topographical History, General  
 -16. Architectural and Sepulchral Antiquities  
 -17. County Topography  
 -18. Travels  
 -19. United Kingdom, Collective Biography (also England)  
 -20. Particular Biography (also England)  
 -21. Peerages, Baronetages, Political Indexes (also England)  
 -22. State Papers and Records (also England)  
 -23. Scotland, General History  
 -24. Ecclesiastical History  
 -25. Military History  
 -26. Topographical History  
 -27. Travels  
 -28. Biography  
 -29. State Papers and Records  
 -30. Ireland, General History  
 -31. Ecclesiastical History
7. -32. Ireland, Military History  
 -33. Topographical History  
 -34. Travels  
 -35. Biography  
 -36. State Papers and Records  
 -37. Wales, History  
 -38. British Colonies, History, General  
 -39. American Collective History  
 -40. West India " "  
 -41. Australian " "  
 -42. History of Particular Colonies  
 -43. British India, History
8. Europe, Modern History, General  
 -1. Belgium and Holland  
 -2. Denmark, Sweden, Norway  
 -3. France  
 -4. Germany  
 -5. Greece  
 -6. Hungary  
 -7. Italy  
 -8. Poland  
 -9. Russia  
 -10. Switzerland  
 -11. Turkey  
 -12. Other Parts of Europe
9. America, History, General  
 -1. United States [since Independence]  
 -2. Mexico  
 -3. Hayti  
 -4. Central and Southern America
10. Africa and Asia, Modern History
- CLASS D. POLITICS AND COMMERCE
1. Politics and Government, General  
 2. National Constitutions

- D. 3. Monarchy, General
- 1. Crown of England, Succession and Prerogatives
4. Parliamentary and Representative Assemblies, General
- 1. House of Lords
  - 2. House of Commons, Constitution, etc., General
  - 3. Reform
  - 4. Bribery at Elections
  - 5. Ballot and Electoral Reform
  - 6. Privileges
  - 7. Internal Economy and Business
  - 8. Reports and Papers
  - 9. Foreign Countries, Representative Assemblies
5. Civil Government, General
- 1. Civil Service of United Kingdom
6. Law, General
7. Laws, Collective, U.K. and England
- 1. Laws, Commentaries, England
  - 2. Codification, England
  - 3. Reform „
  - 4. Courts of Law „
  - 5. Scotland
  - 6. Ireland
  - 7. Wales
  - 8. Colonial
  - 9. United States
  - 10. Foreign Countries
  - 11. International Law
8. Criminal Law (4 sub-divisions)
9. Political Economy: Commerce, Pauperism, Population, etc. (33 sub-divisions)
10. Church Establishments
11. Public Education (3 sub-divisions)
12. Army and Navy, Organisation, etc.
13. Foreign Policy, Ambassadors and Consuls
14. Political Satires, Liberty of the Press
- CLASS E. SCIENCES AND ARTS
1. General: Dictionaries, Society Transactions
2. Physical Sciences, General
- 1. Physics
  - 2. Mechanics
  - 3. Acoustics
  - 4. Optics
  - 5. Pneumatics, Electricity, Meteorology, etc.
  - 6. Physical Astronomy
  - 7. Chemistry, General
  - 8. Inorganic
  - 9. Organic
  - 10. Analytical
  - 11. Technical
  - 12. Society Transactions, Periodicals
  - 13. Mineralogy and Crystallography
  - 14. Geology, General
  - 15. Particular
  - 16. Societies and Periodicals
  - 17. Biology, General
  - 18. Comparative Anatomy and Physiology
  - 19. Human Anatomy and Physiology
  - 20. Zoology, General
  - 21. Particular
  - 22. Local
  - 23. Societies and Periodicals
  - 24. Botany, General
  - 25. Physiological
  - 26. Local
  - 27. Societies and Periodicals
  - 28. Palæontology

- E. 3. Mathematical Sciences, General**  
 -1. Arithmetic ; -2. Algebra ;  
 -3. Geometry, Conic Sections, Mensuration ; -4. Trigonometry ; -5. Calculus
- 4. Mechanical Arts, General**  
 -1. Civil Engineering ; -2. Steam Engine ; -3. Roads, Railways, Bridges ; -4. Docks, Harbours, Canals, etc. ; -5. Field Work ; -6. Building ; -7. Mining and Metallurgy, Machinery, etc. ; -8. Textile Fabrics ; -9. Mathematical Instruments, Watch and Clock-making ; -10. Type-founding, Printing, Lithography, etc. ; -11. Pottery, Ceramics, Glass ; -12. Other Arts and Trades
- 5. Military and Naval Arts (8 subdivisions)**
- 6. Arts of Design, General**  
 -1. Painting (3 subdivisions) ;  
 -2. Sculpture ; -3. Engraving ; -4. Architecture ;  
 -5. Landscape Gardening ;  
 -6. Photography
- 7. Art of Writing, General**  
 -1. Palæography ; -2. Shorthand ; -3. Secret Writing
- 8. Musical and Histrionic Arts, General**  
 -1. Music, General ; -2. Music, Theory and Composition ;  
 -3. Music, Practical Treatises, Instruments, Voice ;  
 -4. Music, History ; -5. Histrionic Art, Histories of the Stage
- 9. Medical Arts, General**  
 -1. Medicine, Particular Branches ;
- 2. Surgery and Surgical Anatomy ; -3. Materia Medica and Pharmacy ; -4. Dietetics
- 10. Domestic and Recreative Arts**
- CLASS F. LITERATURE AND POLYGRAPHY.**
- 1. History of Literature, General**
- 2. Linguistics, or Philology, General**  
 -1. Particular Languages ; -2. Dictionaries, Lexicons, etc.
- 3. Poetry and Fiction, General Collections and History**  
 -1. National Collections ; -2. Classic Greek Poets ; -3. Classic Latin Poets ; -4. British Poets ; -5. Modern Foreign Poets ; -6. Early Romantic Fiction ; -7. Comic, Pastoral, and Heroic Romance ; -8. Dramatic Poetry, Collections of Plays ; -9. Collective Works of Individual Authors ; -10. Separate Plays ; -11. History of Dramatic Poetry ; -12. Modern Tales, Novels and Romances
- 4. Oratory: Speeches and Treatises on Oratory**
- 5. Essays, Proverbs, Literary Miscellanies**
- 6. Epistolography, or Collections of Letters**
- 7. Bibliography and Literary History of Particular Countries**
- 8. Polygraphy [collections of works in 2 or more classes]**  
 -1. British ; -2. Foreign ; -3. Encyclopædias ; -4. Reviews, Magazines, etc.

**30. A modern English system of great practical value is**

that used by Mr. W. Swan Sonnenschein in his important bibliographies of general literature entitled *The Best Books*. The classification of this invaluable library tool has the great merit of being based upon the actual printed books of contemporary and recent literature, as well as the older literature represented by reprints. It thus exhibits not only a complete scheme of headings or classes under which books can be grouped, but by giving examples of actual titles under every main class and sub-division presents one of the most useful text-books which can be studied by the young librarian. Its valuable index adds materially to its usefulness and completeness. We add the main classes and principal divisions, with an indication of the number of sub-divisions.

#### Sonnenschein's Scheme (1887)

##### CLASS A. THEOLOGY

1. General (1-3)
2. Natural Theology (4-8)
3. Ethnic Theology, Oriental (9-15)
4. Bible (16-47)
5. Ecclesiastical History, General (48-59)
6. National (60-75)
7. Denominational (76-101)
8. Ecclesiastical Polity (102-112)
9. Practical Theology (113-118)
10. Systematic Theology (119-134)

##### CLASS B. MYTHOLOGY

1. Comparative (1-2)
2. Special Departments (3-10)
3. Mythology and Folk-Lore, National (11-39)

##### CLASS C. PHILOSOPHY

1. General
2. History (2-4)
3. Ancient Philosophers by Schools (5-15)
4. Modern Philosophers (16-67)
5. Special Departments [68. Logic; 69. Metaphysics; 70. Ethics; 71. Psychology; 72. Æsthe-

tics; 73. Philosophy of History; 74. Political and Social Philosophy; 75. Philosophy of Law]

##### CLASS D. SOCIETY

1. Law, General
2. Statutes, etc. (2-3)
3. General (4)
4. History (5-7)
5. Special Departments (8-100)
6. Courts, Procedure (101-109)
7. Roman and Oriental (110-112)
- 8-9. International (113)
10. Political Economy (114-124)
11. Social Economy (125-133)
12. Politics (134-147)
13. Commerce (148-154)
14. Education (155-172)

##### CLASS E. GEOGRAPHY

1. General (1-8)
2. Historical Geography (9-10)
3. Europe (11-29)
4. Asia Minor (30)
5. Asia (31-40)
6. Africa (41-51)



7. America (52-61)
8. Australasia (62-67)
9. Polar Regions (68-69)

**CLASS F. HISTORY**

1. General (1-4)
2. Primitive Society (5)
3. Ancient History (6-12)
4. Middle Ages (13-14)
5. Europe (15-60)
6. Asia (61-64)
7. South Africa (65)
8. America (66-75)
9. Gypsies (76)

**CLASS G. ARCHÆOLOGY AND HISTORICAL COLLATERALS**

1. Antiquities, General and Local (1-11)
2. Classical (12-21)
3. Genealogy, Heraldry, Names (22-24)
4. Miscellaneous [25. Costume; 26. Autographs; 27. Stamps; 28. Flags; 29. Signboards; 29\*. Pipes; 30. Lives of Antiquaries]

**CLASS H. SCIENCE**

1. General (1-4)
2. Mathematics (5-9)
3. Physics (10-16)
4. Chemistry (17-20) [5. and 6. accidentally omitted]
7. Astronomy (21-24)
8. Physiography (25-30)
9. Geology (31-41)
10. Biology (42-47)
11. Botany (48-69)
12. Zoology (70-106)

**CLASS H\*. MEDICINE**

1. General (1-3)
2. Human Anatomy and Physiology (4-9)
3. Medicine (10-13)

4. Endemic Disease (14)
5. Special Diseases (15-25)
6. Surgery (26-33)
7. Local Surgery (34-44)
8. Obstetrics (45-47)
9. Diseases of Children (48)
10. Pathology (49-50)
11. Materia Medica and Therapeutics (51-53)
12. Medical Jurisprudence and Toxicology (54)
13. Hygiene (55-57)
14. Hospitals, Nursing (58-59)
15. Domestic Medicine (60)
16. Homœopathy (61-62)

**CLASS I. ARTS AND TRADES**

1. Collective (1-2)
2. Engineering (3-12)
3. Electrical (13)
4. Military (14-18)
5. Naval (19-23)
6. Agriculture (24-51)
7. Industries and Trades (52-81)
8. Fine Arts (82-115)
9. Architecture (116-122)
10. Music (123-133)
11. Drama (134-136)
- 11\*. Other Public Performers (136\*, \*\*)
12. Domestic Arts (137-145)
13. Sports and Recreations (146-172)

**CLASS K. LITERATURE AND PHILOLOGY**

1. Reference Works (1-2)
2. Bibliography (3-10)
3. Printing, History (11-15)
- 3\*. Libraries (16-16\*)
4. Literature, National: History, Biography, Criticism (17-42)
5. Prose Fiction (43-58)
6. Facetiæ (58\*-61)

- |                                                |                                                 |
|------------------------------------------------|-------------------------------------------------|
| 7. Poetry, National (62-78)                    | 19. Malay and Polynesian (158-160)              |
| 8. Dramatists (79-82)                          | 20. African (161)                               |
| 9. Essayists (83-85)                           | 21. American (162-164)                          |
| 10. Letter Writers (86)                        | 22. Hyperborean (165)                           |
| 10*. Oratory (86*)                             | 23. Unclassed Philology (166)                   |
| 11. Maxims, Epigrams (87)                      | 24. Greek and Latin, General (167-174)          |
| 12. Anecdotes (88)                             | 25. Greek Philology and Literature (175-198)    |
| 13. Collections and Miscellanies (89-91)       | 26. Latin Philology and Literature (199-224)    |
| PHILOLOGY AND ANCIENT LITERATURE               |                                                 |
| 14. General Philology (92-100)                 | 27. Teutonic Philology (225-255)                |
| 15. Hamitic Philology and Literature (101-104) | 28. Romance Philology and Literature (256-278)  |
| 16. Semitic Philology and Literature (105-118) | 29. Celtic Philology and Literature (279-283)   |
| 17. Aryan Philology and Literature (119-139)   | 30. Slavonic Philology and Literature (284-285) |
| 18. Non-Aryan and Non-Semitic (140-157)        | 31. Artificial Universal Language (286)         |

31. A modern German system which has had some vogue is that prepared for the University of Halle by Otto Hartwig.<sup>1</sup> The following main classes and divisions will give some idea of its character :

**Hartwig's Scheme (c. 1838)**

- |                                                              |                                     |
|--------------------------------------------------------------|-------------------------------------|
| <b>CLASS A. BIBLIOGRAPHY AND GENERAL WORKS</b>               | <b>CLASS C. CLASSICAL PHILOLOGY</b> |
| Aa. Library Science                                          | Ca-CI                               |
| Ab. Bibliography                                             | <b>CLASS D. MODERN PHILOLOGY</b>    |
| Ac. Printing and Publishing                                  | Da-Dn                               |
| Ad. Introductions to Sciences and History of Sciences        | <b>CLASS E. FINE ARTS</b>           |
| Ae. History and Publications of Learned Societies            | Ea. Plastic Arts in General         |
| Af. General Works (General Periodicals, Encyclopædias, etc.) | Eb. Ancient Art                     |
| <b>CLASS B. LINGUISTICS, GENERAL, AND ORIENTAL LANGUAGES</b> | Ec. Mediæval and Modern Art         |
| Ba-Bh                                                        | Ed. Music                           |
|                                                              | Ee. Acting                          |
|                                                              | <b>CLASS F. PHILOSOPHY</b>          |
|                                                              | Fa-Fc                               |
|                                                              | <b>CLASS G. PEDAGOGY</b>            |
|                                                              | Ga. Pedagogy, Public Education      |

<sup>1</sup> Taken from Graescl-Laude's *Manuel de Bibliothéconomie* (1897).

- Gb. History and Statistics of Universities  
 Gc. School Books, Works for the Young
- CLASS H. HISTORY OF CIVILISATION  
 Ha-Hb
- CLASS I. THEOLOGY  
 Ia-Ib. General  
 Ic-Ie. Exegetical Theology  
 If-Ig. Dogmatic Theology  
 Ih-Ik. Historical Theology  
 Il-Im. Practical Theology
- CLASS K. JURISPRUDENCE  
 Ka-Ku
- CLASS L. POLITICAL SCIENCES  
 La-Lh
- CLASS M. SCIENCES AUXILIARY TO HISTORY  
 Ma. General (Diplomatics, Palæography, Genealogy, Heraldry)  
 Mb. Chronology, Numismatics
- CLASS N. HISTORY  
 Na. General and Universal History  
 Nb. History, Ancient  
 Nc. Mediæval  
 Nd. Modern  
 Ne. Germany  
 Nf. Prussia  
 Ng. Prussian Provinces  
 Nh. North German  
 Ni. South German  
 Nk. Austria-Hungary  
 Nl. Switzerland  
 Nm. Holland and Belgium
- Nn. History, Great Britain  
 No. France  
 Np. Spain and Portugal  
 Nq. Italy  
 Nr. Balkan Peninsula  
 Ns. Russia  
 Nt. Scandinavia  
 Nu. Other European Countries  
 Nv. Biography
- CLASS O. GEOGRAPHY  
 Oa. General  
 Ob. Voyages and Itineraries  
 Oc. Political and Statistical Geography
- CLASS P. NATURAL AND MATHEMATICAL SCIENCES, GENERAL  
 Pa. Natural Sciences, General  
 Pb. Mathematics, General  
 Pc. Pure Mathematics  
 Pd. Astronomy  
 Pe. Applied Mathematics
- CLASS Q. PHYSICS AND METEOROLOGY  
 Qa-Qc
- CLASS R. CHEMISTRY  
 Ra-Rb
- CLASS S. NATURAL SCIENCES  
 Sa. Mineralogy, Geology, Palæontology  
 Sb. Botany  
 Sc. Zoology
- CLASS T. AGRICULTURE, ETC.  
 Ta-Tb
- CLASS U. MEDICINE  
 Ua-Uo

32. Another scheme, of Italian origin, based on that of Hartwig and certain American methods, is that of Bonazzi,

first published as *Schema di catalogo sistematico per le Biblioteche Parma* (1890). Its main feature is the uniform sub-division of each main class, shown in detail below.

**Bonazzi's Scheme (1890)**

CLASS A. GENERAL WORKS	CLASS N. SURGERY
CLASS B. ETHNIC RELIGIONS, MYTHOLOGY, ETC.	CLASS O. PHARMACY
CLASS C. CHRISTIAN RELIGION	CLASS P. VETERINARY SCIENCE
CLASS D. JURISPRUDENCE	CLASS Q. AGRICULTURE
A. Bibliography	CLASS R. INDUSTRY AND MANU- FACTURES
B. Periodicals	CLASS S. FINE ARTS
C. Proceedings	A. Bibliography
E. Introductory Works	B. Periodicals
F. Text-books	C. Proceedings
G. General Treatises	E. Introductory Works
H. Collections	F. Text-books
Y. Polygraphy	G. General Treatises
Z. History and Biography	H. Collections
CLASS E. SOCIOLOGY	Y. Polygraphy
CLASS F. PHILOLOGY	Z. History and Biography
CLASS G. LITERATURE	CLASS T. MUSIC
CLASS H. PHILOSOPHY	CLASS U. RECREATIVE ARTS
CLASS I. PHYSICAL AND MATHE- MATICAL SCIENCES	CLASS V. THEATRE
CLASS K. CHEMISTRY	CLASS W. TRAVEL
CLASS L. NATURAL SCIENCE	CLASS X. ARCHÆOLOGY
CLASS M. MEDICINE	CLASS Y. BIOGRAPHY
	CLASS Z. HISTORY

Each class is divided like D and S above, and the scheme bears a general resemblance to some American methods possessing "mnemonic" or "local" features.

33. The last scheme which comes into this section is one introduced in 1894 for libraries in which readers have the privilege of direct access to the shelves. In this respect it differs from all the methods hitherto described. It has been adopted in a number of open access libraries in England, and in addition was in use in its main features since 1888 in the Clerkenwell Public Library, London. It is based on older schemes, and is not provided with a shelf notation, being intended solely for arrangement. It is described in a paper

entitled "Classification of Books for Libraries in which Readers are allowed Access to the Shelves," by John H. Quinn and James D. Brown, first read at the Belfast meeting of the Library Association in 1894, and printed in the *Library* for 1895.

#### Quinn-Brown Scheme (1894)

##### CLASS A. RELIGION AND PHILOSOPHY

1. Bible (*a.* Texts, *b.* Commentaries, *c.* History, *d.* Aids)
2. Church (*a.* History, *b.* Law, *c.* Liturgy, *d.* Rituals by Sects)
3. Theology (*a.* Natural Theology, *b.* Christianity, *c.* Non-Christian Systems, *d.* Mythology, *e.* Popular Beliefs)
4. Philosophy (*a.* Schools, *b.* Mental Science, *c.* Logic, *d.* Moral Science)

##### CLASS B. HISTORY, TRAVEL, AND TOPOGRAPHY

- a.* Universal History and Geography, *b.* Dictionaries, *c.* Chronology, *d.* Archæology (including Numismatics), *e.* Gazetteers, *f.* Atlases, etc.
- National History and Topography [by countries, sub-divided as required]—1. Europe, 2. Asia, 3. Africa, 4. America, 5. Australasia, 6. Polar Regions

##### CLASS C. BIOGRAPHY

- Dictionaries and General Collections (*a.* Peerages, *b.* Army, *c.* Clergy, *d.* Law and other lists, *e.* Dignities, *f.* Heraldry, *g.* Genealogy and Family History)
- Classes, including Criticism (*a.* Actors, *b.* Artists, *c.* Authors, *d.* Clergy and Religious, *e.* Engineers, *f.* Inventors, *g.* Legal,

- h.* Monarchs, *i.* Philosophers, *j.* Philanthropists, *k.* Scientists, *l.* Statesmen, *m.* Travellers, etc.)

##### CLASS D. SOCIAL SCIENCE

1. Society (*a.* Manners and Customs, *b.* Folk-lore, *c.* Marriage, *d.* Women, *e.* Pauperism, *f.* Crime, *g.* Socialism, etc.)
2. Government and Politics (*a.* Public Documents, *b.* Statutes, *c.* Army, *d.* Navy, *e.* Civil Service, etc.)
3. Law (International, English, Colonial, Foreign, Special—as Patent, Commercial, etc.)
4. Political Economy (Taxation, Free Trade, Capital and Labour, Land, Rent, Statistics)
5. Education
6. Commerce

##### CLASS E. SCIENCE

1. Biology (Evolution, General)
2. Zoology
3. Botany
4. Geology (Palæontology, Mineralogy and Crystallography)
5. Chemistry
6. Physiography
7. Astronomy
8. Physics
9. Mathematics

##### CLASS F. FINE AND RECREATIVE ARTS

1. Architecture
2. Painting

3. Sculpture and Carving
4. Decoration
5. Engraving
6. Music
7. Amusements
8. Sports

**CLASS G. USEFUL ARTS**

1. Engineering (Steam, Naval, Military, Civil, Mining, Railway, Electrical, etc.)
2. Building and Mechanical Arts
3. Manufactures
4. Agriculture and Gardening
5. Sea and Navigation
6. Health and Medicine
7. Household Arts

**CLASS H. LANGUAGE AND LITERATURE**

1. Philology

2. Literary History
3. Bibliography
4. Libraries

**CLASS J. POETRY AND THE DRAMA**

1. Poetry (Anthologies, Poets alphabetically)
2. Drama (Stage History, Dramatists alphabetically)

**CLASS K. FICTION**

1. Collections, Author Alphabet and Anonyma
2. Juvenile

**CLASS L. GENERAL WORKS**

1. Encyclopædias, Directories
2. Miscellanies (Sketches, Essays, Anecdotes, Proverbs)
3. Collected Works
4. Periodicals not in other Classes

## CHAPTER IV

### *SCHEMES FOR THE CLASSIFICATION OF BOOKS CONJOINED WITH SHELF NOTATIONS*

34. THE classification methods just examined are primarily for use in arranging books in catalogues or on shelves without providing a system of serial numbers or marks by which single books can be referred to and found as well as placed. To a certain extent the marking of the systems of Edwards, Sonnenschein, Bonazzi, Hartwig, and Quinn-Brown could be used for finding and charging purposes; but class numbers alone, without some method of indicating individual books, are not sufficient for all purposes. Turning back to Section 29, it will be noticed that in Edwards' scheme C 7-27 is a general reference to Travels in Scotland. But there may be two hundred separate works in this sub-division, and no means are provided for distinguishing one from another. Of course the books in C 7-27 might be arranged in an author alphabet; but this would still make the entry of a loaned book cumbrous, as it would be necessary to note the author and brief title thus: "C 7-27. Garnett's Tour." The accession number alone can be used for purposes of identifying the individual works of a sub-division, as is done with the Quinn-Brown method; but this was not contemplated in any other of the schemes described in Chapter III. This chapter is therefore concerned with the methods, mostly of modern origin, which are combination systems for classifying, shelving, cataloguing, charging, and otherwise identifying, not only main or sub-classes, but single books.

35. The first scheme of this sort is of American origin, as

indeed are the whole of the published combination classifications. It was devised by Dr. William T. Harris, Superintendent of Public Schools, St. Louis, who was also one of the managers of the Public School Library of that city. His system was adopted at this library, and has been also used in other American libraries, particularly that of Peoria, Ill., which published an important modification or rather amplification of the scheme in 1896. Harris's method is sometimes styled the "Inverted Baconian" plan, from its general arrangement in the three main classes "Science," "Art," and "History," which roughly correspond to Bacon's "Philosophy," "Poetry," and "History," tabulated in Section 14. To Harris belongs the credit of having first produced a method adapted to the wants of a modern library. It bears a certain resemblance to the decimal system of Dewey, in its provision of a hundred divisions and general sequence of main divisions. The first draft of this system was printed in the *Journal of Speculative Philosophy* (1870), Vol. IV., p. 114-19, a periodical edited by Harris at St. Louis. It is also briefly described in the official work entitled *Public Libraries in the United States of America* (Washington: 1876). In actual use the main class letters and numbers of Harris's scheme are not required. Indeed he says that the proximate classes are numbered from 1 to 100, so as to have only two figures for most classes, with letters added for sub-classes. This is clearly enough shown in the following table, which is condensed from the Peoria Public Library scheme, it being, as before remarked, more complete than Harris's original plan :

Harris's Scheme (1870)

ORIGINAL FORM

- |                                                                                                                                                                                                   |                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A. SCIENCE. 1. Philosophy, 2. Religion<br/>Social and Political Science.<br/>3. Jurisprudence, 4. Politics, etc.<br/>Natural Sciences and Useful Arts.<br/>7. Mathematics, 11. Useful Arts</p> | <p>B. ART. 12. Fine Arts, 13. Poetry, 14. Pure Fiction, 15. Literary Miscellany<br/>C. HISTORY. 16. Geography and Travel, 17. Civil History, 18. Biography<br/>D. APPENDIX. 19. Appendix—Miscellany</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## PEORIA FORM

## SCIENCE

2. Philosophy in General
3. Philosophies and Philosophers  
(*a.* Ancient, *d.* Early Christian, *e.* Modern, *s.* Special)
4. Metaphysics (*4a.* Anthropology, *4b.* Psychology, *4c.* Logic)
5. Ethics
6. Religion
7. Bible
8. Commentaries
9. Theology, Doctrinal, Dogmatics
10. Devotional, Practical
11. Natural Theology
12. Religious and Ecclesiastical History
13. Modern Systems
14. Judaism
15. Mythology and Folk-Lore
16. Oriental and Pagan Religions

## SOCIAL AND POLITICAL SCIENCES

18. Jurisprudence
19. Law
20. International Law
21. Ancient, Feudal, and Civil Law
22. Common Law, Canon Law, Equity
23. Statute Law, Reports and Digests
24. Constitutional Law and History
25. Law Treatises (Criminal, Martial, etc.)
26. Political Science
27. Legislative Bodies and Annals
28. Administration
29. Social Science
30. Economics
31. Education
32. Philology
33. Grammars and Text-books
34. Dictionaries

## NATURAL SCIENCES AND USEFUL ARTS

35. Natural Science (*a.* Scientific Periodicals)
36. Mathematics in General (*a.* Weights and Measures)
37. Arithmetic
38. Algebra
39. Geometry, Trigonometry, Calculus
40. Engineering (*a.* Railroad, Canal, etc., *b.* Bridges and Roofs, *d.* Military and Naval, etc.)
41. Mechanical (Steam Engines, Machinery, etc.)
42. Physics (General and Special)
43. Electricity
44. Chemistry
45. Astronomy
46. Natural History (*a.* Biology, *b.* Evolution, *c.* Microscopy, *d.* Collectors' Manuals, *e.* Out-of-doors Books)
47. Physical Geography (*a.* Land, *b.* Water, *c.* Atmosphere)
48. Geology
49. Botany
50. Zoology
51. Ethnology
52. Archæology, Antiquities
53. Medicine
54. Anatomy, Physiology
55. Materia Medica, Pharmacy
56. Pathology, Diseases, Treatment
57. Hygiene (*a.* Food, *b.* Clothing, *c.* Children, *d.* Physical Culture, *e.* Public Health)
58. Amusements, Recreations
59. Useful Arts and Trades (*a.* Exhibitions, *b.* Patents)
60. Military Arts (*e.* Naval Science)

61. Mechanic Arts and Trades  
(Building, Manufactures,  
Chemical Technology)
62. Commercial Arts, Business (*a.*  
Book-keeping, *b.* Writing,  
*c.* Printing, etc.)
63. Productive Arts (*a.* Mining,  
*b.* Agriculture, *c.* Cookery,  
*d.* Housekeeping, *f.* Furni-  
ture, *g.* Needlework)
- ART
64. Fine Arts, General
65. Fine Arts, History
- a.* Architecture (5 sub-divisions)
- b.* Sculpture (3 sub-divisions)
- c.* Drawing (4 sub-divisions)  
Painting (10 sub-divisions)
- d.* Engraving, Lithography, Etch-  
ing
- i.* Photography
- e.* Art Works, Collections of  
Pictures
- f.* Minor Arts, Decorative and  
Industrial
- g.* Music (11 sub-divisions)
66. Poetry and the Drama, History  
and Criticism (*a-w.* National)
67. English Poetry
68. Foreign Poetry and Drama
69. Prose Fiction
70. Juvenile Literature
71. Literary Miscellany
72. Fables, Anecdotes, etc.
73. Rhetoric, Elocution
74. Orations and Speeches
75. Essays
76. Collected Literary Works
77. Literary History and Criticism
78. Bibliography (including Library  
Economy)
- HISTORY
80. Geography and Travel, General
81. Geography (*a.* Ancient, *b.*  
Modern)
82. Voyages
83. America, Travels (11 sub-  
divisions)
84. Europe, Travels (11 sub-  
divisions)
85. Asia, Travels (6 sub-divisions)
86. Africa, Travels (5 sub-divisions)
87. Travels in Several Quarters (5  
sub-divisions)
88. Philosophy of History, civilisa-  
tion
89. Historical Collections
90. Ancient History
91. History of United States
92. America at large
93. British
94. Modern Europe
95. Asia
96. Historical Miscellany (*a.* Cru-  
sades, *b.* Battles, *c.* Coins,  
*d.* Costume, *e.* Customs,  
*f.* Secret Societies)
97. Biography (*a.* Collective, *b.* In-  
dividual, *c.* Genealogy and  
Heraldry, *d.* Names)
99. Cyclopedias and Collections
100. Periodicals, Newspapers,  
Journalism

36. Following closely upon the Harris classification is another American scheme, dating from about 1871, in which an attempt is made to combine a numerical sub-classification with sizes. The method is described in the *Library Journal* (1878), Vol. III. There are twenty-five classes, each designated by the letters from A to Z, excluding J. Each of the twenty-five

classes is divided into nine sub-classes by adding 1 to 9, and these sub-classes are further sub-divided by adding one of the twenty-five letters. A further element is introduced by a series of letters to denote sizes, D = duodecimo, O = octavo, Q = quarto, and F = folio. Thus a book may have a number like "A8mo." This system was invented by Mr. Jacob Schwartz, of the Apprentices' Library, New York; and in 1879 he issued an amplification of the same, which is described in the *Library Journal* (1879), Vol. IV. It is styled the "Mnemonic System of Classification," and its main outlines are these:

**Schwartz's Scheme (1871-79)**

<p><b>A. ARTS, FINE AND USEFUL</b></p> <p>1. Agriculture 2. Carpentry 3. Fine Arts, General 4. Games 5. Household Science 6. Music 7. Painting 8. Sculpture 9. Useful Arts</p> <p><b>B. BIOGRAPHY</b></p> <p><b>C. CUSTOMS</b></p> <p><b>D. DRAMA AND POETRY</b></p> <p><b>E. EUROPE, HISTORY AND TRAVEL</b></p> <p><b>F. FICTION, JUVENILE</b></p>	<p><b>G. GOVERNMENT AND SOCIAL SCIENCE</b></p> <p><b>H. HISTORY, GENERAL</b></p> <p><b>J. JURISPRUDENCE</b></p> <p><b>K. LANGUAGE</b></p> <p><b>L. LITERATURE</b></p> <p><b>M. MENTAL AND MORAL SCIENCE</b></p> <p><b>N. NATURAL HISTORY</b></p> <p><b>O. ORIENTAL HISTORY AND TRAVEL</b></p> <p><b>P. PERIODICALS</b></p> <p><b>R. REFERENCE AND RARE BOOKS</b></p> <p><b>S. SCIENCE</b></p> <p><b>T. THEOLOGY</b></p> <p><b>U. UNITED STATES HISTORY AND TRAVEL</b></p> <p><b>V. VOYAGES AND TRAVEL</b></p> <p><b>W. WORKS, COLLECTED</b></p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Every class is sub-divided as at A, in a little alphabetical sequence, wherein an arrangement is followed which makes 1 always begin with A or B, 2 with C or D, 3 with E or F, 4 with G or H, and so on. No doubt the correspondence between the class letter and the initial of the class name is an assistance to the memory of assistants; but it is doubtful if this compensates for the separation of the Geographical and Historical classes. In the *Library Journal* (1882), Vol. VII.,

Mr. Schwartz published a "New Classification and Notation," in which an attempt is made to combine the numerical, the alphabetical, and the classified forms. This is accompanied by an interesting tabulated plan of the scheme. Mr. Schwartz was one of the parties to the clever and amusing controversy on classification schemes which for several years, from about 1879, raged in the *Library Journal* among such experts as Dewey, Cutter, Perkins, and Schwartz. This was one of the most instructive discussions which ever took place upon an abstruse library topic, and it undoubtedly did much to educate and fix the opinion of American librarians wholly in favour of systematic classification.

37. We have arrived now at the most generally adopted and influential of all the schemes of systematic library classification, that devised by Mr. Melvil Dewey (of the State Library, Albany, New York) about 1873, and first applied to the library of Amherst College, Mass. It was originally published anonymously in 1876 as *A Classification and Subject Index for cataloguing and arranging the Books and Pamphlets of a Library* (Amherst, Mass.), and in the same year a brief account of the method appeared in *Public Libraries in the United States of America*. In 1885 and 1888 extensive improvements were introduced, especially a Relative Index, and in April, 1895, an *Abridged Decimal Classification and Relative Index* was published as Vol. IV., Nos. 13, 14, of *Library Notes*. No system of classification has been so widely adopted or so generally appreciated, and no other system has done so much valuable missionary work in the cause of systematic classification. It is so well known, that a very brief description and a few extracts will serve to make its general outlines clear. In the first edition acknowledgment is made of indebtedness to the *Nuovo Sistema di Catalogo Bibliografico Generale*, of Natale Battezzati, of Milan, and to the systems of Messrs. Harris and Schwartz. As the older forms have been modified or discarded, it is unnecessary to further examine the earlier editions. At present the method consists of ten main classes, arranged as follows :

**Dewey's Scheme<sup>1</sup> (1873-76)**

- |                  |                    |
|------------------|--------------------|
| 0. General Works | 5. Natural Science |
| 1. Philosophy    | 6. Useful Arts     |
| 2. Religion      | 7. Fine Arts       |
| 3. Sociology     | 8. Literature      |
| 4. Philology     | 9. History         |

Each of these classes is divided into ten divisions, and each of these into ten sections. In all cases the 0 indicates general works on each class, division, or section. Sub-divisions of sections are indicated by another series of consecutive numbers coming after a period or point. Thus 553.7 means Class 5 Natural Science, Division 5 Geology, Section 3 Economic Geology, Sub-section .7 Mineral Waters. The scheme possesses various mnemonic features, a certain number, for example, always standing for a certain country or topic. In such an elaborate and well-indexed method, these extra aids do not appear to us to possess much value. "The books are arranged on the shelves in simple numerical order, all class numbers being decimal. Since each subject has a definite number, all books on any subject must stand together." The order of the divisions is as follows; and it will be seen that, when shelved, the books in a library will be arranged in a simple numerical sequence, yet perfectly classed in an accurate scheme of related main classes and subordinate subjects :

**Dewey Divisions**

<b>000 GENERAL WORKS</b>	<b>100 PHILOSOPHY</b>
010 Bibliography	110 Metaphysics
020 Library Economy	120 Special Metaphysical Topics
030 General Cyclopedias	130 Mind and Body
040 General Collections	140 Philosophical Systems
050 General Periodicals	150 Mental Faculties, Psychology
060 General Societies	160 Logic
070 Newspapers	170 Ethics
080 Special Libraries, Polygraphy	180 Ancient Philosophers
090 Book Rarities	190 Modern Philosophers

<sup>1</sup> *Tables and Index of the Decimal Classification and Relative Index for arranging and cataloguing Libraries, Clippings, Notes, etc.* 3rd Edition. (Boston : 1888.) A fifth edition has since appeared.

- 200 RELIGION  
 210 Natural Theology  
 220 Bible  
 230 Doctrinal Theology, Dog-  
       matics  
 240 Devotional and Practical  
 250 Homiletic, Pastoral, Parochial  
 260 Church, Institutions, Work  
 270 Religious History  
 280 Christian Churches and Sects  
 290 Non-Christian Religions
- 300 SOCIOLOGY  
 310 Statistics  
 320 Political Science  
 330 Political Economy  
 340 Law  
 350 Administration  
 360 Associations and Institutions  
 370 Education  
 380 Commerce and Communication  
 390 Customs, Costumes, Folk-Lore
- 400 PHILOLOGY  
 410 Comparative  
 420 English  
 430 German  
 440 French  
 450 Italian  
 460 Spanish  
 470 Latin  
 480 Greek  
 490 Minor Languages
- 500 NATURAL SCIENCE  
 510 Mathematics  
 520 Astronomy  
 530 Physics  
 540 Chemistry  
 550 Geology  
 560 Paleontology  
 570 Biology  
 580 Botany  
 590 Zoology
- 600 USEFUL ARTS  
 610 Medicine  
 620 Engineering  
 630 Agriculture  
 640 Domestic Economy  
 650 Communication and Commerce  
 660 Chemical Technology  
 670 Manufactures  
 680 Mechanic Trades  
 690 Building
- 700 FINE ARTS  
 710 Landscape Gardening  
 720 Architecture  
 730 Sculpture  
 740 Drawing, Design, Decoration  
 750 Painting  
 760 Engraving  
 770 Photography  
 780 Music  
 790 Amusements
- 800 LITERATURE  
 810 American  
 820 English  
 830 German  
 840 French  
 850 Italian  
 860 Spanish  
 870 Latin  
 880 Greek  
 890 Minor Languages
- 900 HISTORY  
 910 Geography and Description  
 920 Biography  
 930 Ancient History  
 940 Europe  
 950 Asia  
 960 Africa  
 970 North America  
 980 South America  
 990 Oceanica and Polar  
       Regions
- } Modern

To show the arrangement of sections we select the division 620 Engineering, which is divided thus :

621 Mechanical	626 Canal
622 Mining	627 River and Harbor
623 Military	628 Sanitary, Water Works
624 Bridge and Roof	629 Other Branches
625 Road and Railroad	

The arrangement of 621 is continued in sub-sections as follows :

621·1 Steam Engineering	621·6 Blowing and Pumping Engines
621·2 Water Engines or Motors	621·7 Mills and Manufacturing Works
621·3 Electrical Engineering	621·8 Mill Work and Mechanism of Transmission
621·4 Air and Gas Engines and Other Motors	621·9 Machine Tools
621·5 Air Compressors, Ice Machines	

621·1 Steam Engineering is in its turn further divided thus :

621·11 Mechanism of Steam Engine	621·16 Stationary Engines
621·12 Marine Engines	621·17
621·13 Locomotive Engines	621·18 Steam Generation, Boilers, Furnaces
621·14 Traction Engines	621·19 Steam Heating
621·15 Portable Engines	

This classification provides places and symbols for every topic, however minute, and there only remains some method of distinguishing individual books. There may be, for instance, twelve books on 621·18, which would all have the same class number. How then to distinguish Courtenay on Boilers from Shock on Boilers? Several ways have been suggested, as in finding and charging it is essential that a reader should be credited only with the single book of a class which he borrows, and not with all the books in the class. One plan is to use the accession number, which might give symbols like this :

621·18- 4689 Courtenay, Boiler-maker's Assistant  
621·18-10675 Shock, Boilers

The most generally adopted plan, used greatly in American

libraries, is to apply the "**Cutter Author Marks**," a system of numbering all the best-known surnames, invented by Charles A. Cutter, late of the Boston Athenæum. The main features of this scheme may be briefly noted here, those who desire further particulars being referred to the tables published by the Library Bureau. "Books on the shelves are kept alphabetized by marking them with the initial of the author's family name, followed by one or more decimal figures assigned according to a table so constructed that the names whose initials are followed by some of the *first* letters of the alphabet have the *first* numbers, and those in which the initials are followed by *later* letters have *later* numbers":

Abbott = Ab2	Gardiner = G16
Acland = Ac6	Gerry = G36
Cook = C77	Gilman = G42
Cousin = C83	Shock = Sh8
Crabb = C84	

These initials and surname numbers serve to keep minute class divisions in strict alphabetical order, and can also be used for registering books. Shock on Boilers would be numbered 621.18Sh.8, which would differentiate it from every other book in the same sub-section and from every other book in the library. These, then, are the principal points in the Decimal classification. Of its merits it is unnecessary to speak, as the method has been generally accepted all over America and in many British, Colonial, and Continental libraries. The chief objection we have seen urged against it, apart from such questions as the arrangement and constituent subjects of main classes, has been the uniformity of progression by tens, and the plan of making every class, division, section, or sub-section conform to this system. It may be said, however, and a slight examination will confirm this, that the advantages of the Decimal notation far outnumber the disadvantages of an occasional distortion or needless inflation of a class, division, or section.

38. There have been several modifications of Dewey's Decimal classification introduced at different times; but the



only one we propose to notice is that of Sion College, London, first printed in 1886, and afterwards revised and enlarged as *Order of the Classification of Sion College Library, London* (1889). This was the work of the Rev. W. H. Milman, librarian of the college, assisted by Mr. J. P. Edmond, now librarian to the Earl of Crawford at Haigh Hall, Wigan. In it Dewey's notation has been abandoned in favour of the old system of class letters and separate numerical progressions under each class. The order of classes has also been changed, and other variations introduced, with the object of adapting the scheme to the needs of an essentially theological library. It will be enough to briefly indicate the main classes and give a detailed specimen of the divisions and sub-divisions:

**Sion College Scheme (1886-89)**

**CLASS A. Theology (including Ecclesiastical History and Canon Law)**

- ” B. History
- ” C. Philosophy
- ” D. Social Science
- ” E. Natural Science
- ” F. Useful Arts
- ” G. Fine Arts
- ” H. Philology
- ” K. Literature
- ” L. Bibliography and Literary History

**CLASS C. PHILOSOPHY**

- C 10. General
- C 11-12. Ancient Philosophers
- C 13-14. Mediæval and Modern Philosophers
- C 15. Biographies and Correspondence of Philosophers
- C 20. Logic
- C 30-33. Metaphysics
- C 40-45. Ethics
- C 50-51. Applied Morality
- C 60. Aberrations from Morality (Suicide, Magic, Witchcraft, etc.)

Detail of C 20 :

**LOGIC**

- |                       |                         |
|-----------------------|-------------------------|
| C 20'0. General       | C 20'2a. Systems, Greek |
| C 20'1. Introductions | C 20'2b. Latin          |
| C 20'2. Systems       | C 20'2c. Modern         |

All through this scheme there are numerous departures from the Dewey tables, and the whole method is well worth careful study for its suggestiveness. The Cutter author marks are used to identify individual books.

39. One of the most scientific and complete modern schemes of classification is the "Expansive" method of Mr. Charles A. Cutter, which has been adopted within recent years in a number of libraries in the United States. Mr. Cutter is well known to librarians the world over as the author of the standard *Rules for a Dictionary Catalogue*, and for his valuable services to library science rendered while he was librarian at the Boston Athenæum. His system of classification was developed many years ago, probably before 1879, but has only been fully worked out in minute detail within the last few years. It was first published, in parts, at Boston, in 1891, as *Expansive Classification*, when the first table was issued. The other six tables have since been printed, and now librarians have an opportunity of examining the details of the scheme. Library assistants will find a summary of the method and its application to cataloguing in the *Catalogue of "A. L. A." Library*, issued by the U.S. Bureau of Education in 1893. Mr. Cutter also described his system at the International Library Conference held at London in July, 1897, and from his paper we select a few points of interest and importance :

"It consists of seven tables of classification of progressive fulness, designed to meet the needs of a library at its successive stages of growth. The first table has few classes and no sub-divisions. It is meant for a very small collection of books. The second has more classes and some sub-divisions, but retains all the old classes with their previous marks. This is intended for the small collection, when it has swelled so much that it must be broken up into more parts. Now the books which are put into the new classes must of course have new marks ; but those in the old ones remain as they are—their marks need no change. In this way we go on, gradually increasing the number of classes and sub-classes, and yet in each transition from the simpler to the more complex scheme pre-

servicing all the old notation ; so that there is only the absolutely necessary amount of alteration. . . . Passing through the third, and fourth, fifth, sixth, it comes finally to the seventh, which is full and minute enough for the British Museum, with a capacity of increase that would accommodate the British Museum raised to the tenth power ; for there might be an eighth and a ninth and a tenth table if need be. From this adaptation to growth comes the name *expansive*. . . .

“This system is the first in which a series of expanding tables has been actually printed, the first in which the idea was made prominent. Much more characteristic, however, are two features of the notation. The first is not original, the second is. The first is the use of letters for notation ; *i.e.* of the twenty-six letters of the alphabet to mark the classes (A being the general classes, Polygraphy ; B, Philosophy and Religion ; C, the Christian Religion ; D, Ecclesiastical History ; and so on) ; and of a second letter for the sub-classes (Ca being Judaism ; Cb, the Bible ; Cc, Collected Works of the Fathers of the Church ; Cd, Later Divines ; and so on). This second letter divides each of the twenty-six main classes into twenty-six parts, and then a third letter divides each of these six hundred and seventy-six divisions into twenty-six parts, or over eighteen thousand in all, taking the single-letter, the double-letter, and the triple-letter classes together. This gives of course more classes than a smaller base ; and, on the other hand, many fewer characters are needed to express the same closeness of classification. . . .

“The other characteristic of which I spoke, the original one, is this. We use figures to mark countries, and letters for all other subjects ; so that it is possible to express the local relations of any subject in a perfectly unmistakable way, the letters never being used to signify countries, and the figures never being used for any other subjects but countries. Thus 45 is England wherever it occurs : *e.g.* F being History, F 45 is the History of England ; G being Geography, G 45 is the Geography of England, or Travels in England, and so on. This local notation can be used, not merely with the main classes,

but with every sub-division, no matter how minute, if it is worth dividing by countries, as : K1 45, English Law ; H1 45, English Joint-stock Companies ; Ht 45, English Budget ; Hv 45, English Tariff ; Ig 45, the English Poor ; Iv 45, English Schools ; Ix 45, English Universities ; Jt 45, the English Constitution ; Jv 45, English Politics ; Jv 45, English Administration. Or, to turn to another country and a different order of ideas : X 39, French Language ; Y 39, French Literature ; Zv 39, History of French Literature ; Zv 39, French Bibliography ; Wf 39, French Architecture ; Wp 39, French Painting. Wherever one wishes to separate what relates to France from other works on any subject, one has only to add the two figures 39, and the thing is done."

The scheme has other features which are described in the paper from which our extracts are taken and in the printed system itself. Those who wish to study the method as a whole are referred to Mr. Cutter's published tables. Following is a brief outline of the main classes and examples of their sectional treatment. It should be added that for the identification of individual books, the Cutter author tables are used.

**Cutter's Expansive Scheme.**

<b>A. GENERAL WORKS</b>	<b>C. Christianity and Judaism</b>
AD. Dictionaries	CA. Judaism
AE. Encyclopædias	CB. Bible
AI. Indexes	CC. Christianity
AM. Museums	CE. Apologetical Theology
AP. Periodicals	CF. Doctrinal Theology
AQ. Quotations	CK. Ethical Theology
AR. Reference Books	CP. Ecclesiastical Polity
AS. Societies	CR. Ritual Theology
<b>B. PHILOSOPHY</b>	CX. Pastoral Theology
BG. Metaphysics	D. Ecclesiastical History
BH. Logic	<b>E. BIOGRAPHY</b>
BL. Psychology	<b>F. HISTORY (with Local List)</b>
BM. Moral Philosophy	FF. Antiquities
<b>BR. RELIGION</b>	FN. Numismatics.
BS. Natural Theology	FS. Chivalry
BT. Religions	FV. Heraldry

- |             |                                                   |             |                                              |
|-------------|---------------------------------------------------|-------------|----------------------------------------------|
| <b>G.</b>   | <b>GEOGRAPHY AND TRAVELS</b><br>(with Local List) | <b>RT.</b>  | <b>Electric Arts</b>                         |
| <b>H.</b>   | <b>SOCIAL SCIENCE</b>                             | <b>RY.</b>  | <b>Domestic Economy</b>                      |
| <b>HB.</b>  | <b>Statistics</b>                                 |             | <b>CONSTRUCTIVE ARTS:</b>                    |
| <b>IIC.</b> | <b>Economics, Political Eco-<br/>nomy</b>         | <b>S.</b>   | <b>Engineering</b>                           |
| <b>I.</b>   | <b>Demotics, Sociology</b>                        | <b>SG.</b>  | <b>Building</b>                              |
| <b>IK.</b>  | <b>Education</b>                                  | <b>SJ.</b>  | <b>Sanitary Engineering</b>                  |
| <b>J.</b>   | <b>Civics, Political Science</b>                  | <b>SL.</b>  | <b>Hydraulic Engineering</b>                 |
| <b>K.</b>   | <b>Legislation</b>                                | <b>ST.</b>  | <b>Arts of Transportation</b>                |
| <b>KW.</b>  | <b>Woman</b>                                      | <b>T.</b>   | <b>Fabricative Arts</b>                      |
| <b>KX.</b>  | <b>Societies</b>                                  | <b>U.</b>   | <b>Art of War</b>                            |
|             |                                                   | <b>UN.</b>  | <b>Nautical Arts</b>                         |
|             |                                                   | <b>V.</b>   | <b>Athletic and Recreative<br/>Arts</b>      |
| <b>L.</b>   | <b>SCIENCES AND ARTS</b>                          |             | <b>FINE ARTS</b>                             |
| <b>LA.</b>  | <b>SCIENCES (NATURAL)</b>                         | <b>VV.</b>  | <b>Music</b>                                 |
| <b>LB.</b>  | <b>Mathematics</b>                                | <b>W.</b>   | <b>Art, Fine Arts</b>                        |
| <b>LH.</b>  | <b>Physics, Natural Philo-<br/>sophy</b>          | <b>WD.</b>  | <b>Plastic Arts</b>                          |
| <b>LO.</b>  | <b>Chemistry</b>                                  | <b>WE.</b>  | <b>Landscape Gardening</b>                   |
| <b>LR.</b>  | <b>Astronomy</b>                                  | <b>WF.</b>  | <b>Architecture</b>                          |
| <b>M.</b>   | <b>Natural History</b>                            | <b>WJ.</b>  | <b>Sculpture</b>                             |
| <b>MB.</b>  | <b>Microscopy</b>                                 | <b>WL.</b>  | <b>Arts of Design</b>                        |
| <b>MC.</b>  | <b>Geology</b>                                    | <b>WM.</b>  | <b>Drawing</b>                               |
| <b>MD.</b>  | <b>Mineralogy</b>                                 | <b>WP.</b>  | <b>Painting</b>                              |
| <b>MG.</b>  | <b>Physiography</b>                               | <b>WQ.</b>  | <b>Engraving</b>                             |
| <b>MQ.</b>  | <b>Palæontology</b>                               | <b>WR.</b>  | <b>Photography</b>                           |
| <b>MV.</b>  | <b>Biology</b>                                    | <b>WS.</b>  | <b>Decorative Arts</b>                       |
| <b>N.</b>   | <b>Botany</b>                                     |             | <b>ARTS OF COMMUNICATION<br/>BY LANGUAGE</b> |
| <b>O.</b>   | <b>Zoology</b>                                    | <b>X.</b>   | <b>English Language</b>                      |
| <b>P.</b>   | <b>Vertebrates</b>                                | <b>XII.</b> | <b>Language in General</b>                   |
| <b>PW.</b>  | <b>Anthropology and Ethnology</b>                 | <b>XX.</b>  | <b>Oratory</b>                               |
| <b>Q.</b>   | <b>MEDICINE</b>                                   | <b>Y.</b>   | <b>English and American Lite-<br/>rature</b> |
| <b>R.</b>   | <b>USEFUL ARTS, TECHNOLOGY</b>                    | <b>YD.</b>  | <b>Drama</b>                                 |
| <b>RC.</b>  | <b>Metric Arts</b>                                | <b>YF.</b>  | <b>Fiction</b>                               |
| <b>RCZ.</b> | <b>Extractive and Productive<br/>Arts</b>         | <b>YJ.</b>  | <b>Juvenile Literature</b>                   |
| <b>RD.</b>  | <b>Mining</b>                                     | <b>YP.</b>  | <b>Poetry</b>                                |
| <b>RF.</b>  | <b>Metallurgy</b>                                 | <b>VII.</b> | <b>Literature in General</b>                 |
| <b>RG.</b>  | <b>Agriculture</b>                                | <b>Z.</b>   | <b>Book Arts</b>                             |
| <b>RJ.</b>  | <b>Animaliculture</b>                             | <b>ZN.</b>  | <b>Private Libraries</b>                     |
| <b>RQ.</b>  | <b>Chemical Technology</b>                        | <b>ZP.</b>  | <b>Public Libraries</b>                      |
|             |                                                   | <b>ZT.</b>  | <b>Bibliography</b>                          |
|             |                                                   | <b>ZY.</b>  | <b>Literary History</b>                      |

The method of sub-division is illustrated by the class N. Botany and SG. Building :

N. Botany	SG. Building
Na. Botanical Gardens, Herbaria	SGb. Building Laws
Nb. Phytology, Theoretical Botany	SH. Carpentry
Nc. Phytography, Descriptive Botany	SHh. Stairs
Nd. Cryptogams	SI. Painting and Glazing
Nr. Phanerogams	SIV. Varnishing and Gilding
Nw. Flowers, Fruit, and Colored Leaves	SIw. Papering
Nx. Sylvæ	SIX. Bell-hanging
Ny. Insectivorous and Parasitic Plants	
Nz. Economic and Medical Botany	

When further sub-division is necessary, it is accomplished by means of the ordinary numerals—N 1, N 2, N 3, Nd 1, Nd 2, Nd 3, etc. ; while the arrangement of each minute sub-division, whatever it may be, is by author alphabet indicated as before stated by the Cutter author marks. The long period during which this system has been building will account in a great measure for its comparative neglect, and for the general ignorance of its main features among British librarians. But it is certainly one of the systems most deserving of study.

40. Another careful and practical American scheme is that of Mr. Fred. B. Perkins, late librarian of the San Francisco Public Library. It was published in a final form as *A Rational Classification of Literature for shelving and cataloguing Books in a Library, with Alphabetical Index* (San Francisco: 1882). The idea had long been maturing in Mr. Perkins' mind, and a variation of the 1882 method was previously issued in which a progressive series of numbers ran through the whole scheme. This was withdrawn in favour of the revised system of 1882, in which each main class got an independent series of numbers. The Perkins' system is a library classification pure and simple, in which each topic has a distinct mark, and there is no attempt made at mnemonic or other features. The following are its main classes and chapters or divisions :

**Perkins' Rational Scheme (1882)****CLASS A. RELIGION**

- Chap. I. Bible, Biblical Study
- „ II. History of Religion
- „ III. Systematic Theology
- „ IV. Christian Polity
- „ V. Devotional
- „ VI. Practical
- „ VII. Collective Works

**CLASS B. PHILOSOPHY**

- Chap. I. Mental Philosophy :  
History and Systems
- „ II. Mental Philosophy :  
Departments
- „ III. Mind and Body
- „ IV. Moral Philosophy

**CLASS C. SOCIETY**

- Chap. I. Government and Law
- „ II. Public Administration
- „ III. Social Organisation
- „ IV. Political Economy
- „ V. Education : Methods  
and Departments
- „ VI. Education: Institution  
and Reports
- „ VII. Business

**CLASS D. HISTORY**

- Chap. I. General Geography  
and Travels
- „ II. Universal History
- „ III. Historical Collaterals
- „ IV. Ancient History
- „ V. Mediæval History
- „ VI. Modern and European  
History
- „ VII. Asia
- „ VIII. Africa
- „ IX. South Seas, Australia,  
Single Islands
- „ X. America, except United  
States
- „ XI. United States

**CLASS E. BIOGRAPHY**

- Chap. I. Collective : Generally  
and by Nations
- „ II. By Classes
- „ III. Genealogy and Names

**CLASS F. SCIENCE**

- Chap. I. General Treatises
- „ II. Mathematics
- „ III. Natural Philosophy
- „ IV. Astronomy
- „ V. Cosmology
- „ VI. Geology
- „ VII. Chemistry
- „ VIII. General Natural His-  
tory and Zoology
- „ IX. Botany
- „ X. General Medicine
- „ XI. Hygiene
- „ XII. Medical Practice
- „ XIII. Surgical Practice

**CLASS G. ARTS**

- Chap. I. General Treatises
- „ II. Engineering
- „ III. Architecture, Building
- „ IV. Military Arts
- „ V. Naval Arts
- „ VI. Mechanic Arts and  
Trades
- „ VII. Agriculture
- „ VIII. Domestic Arts
- „ IX. Fine Arts
- „ X. Music
- „ XI. Recreation

**CLASS H. LITERATURE**

- Chap. I. History of Literature
- „ II. Philology
- „ III. Linguistics
- „ IV. Critical Science
- „ V. Poetry

Chap. VI. Drama	Chap. X. Periodicals
„ VII. Fiction	„ XI. Encyclopædias
„ VIII. Oratory	„ XII. Bibliography
„ IX. Collections	„ XIII. Libraries

Each class is numbered throughout in one sequence, and in actual arrangement the chapter numbers are ignored. Thus a book on Algebra would not be marked F 11 8, but simply F 8. The arrangement under classes will be illustrated by a few extracts from Class F :

I. GENERAL TREATISES	F 11. Trigonometry
F 1. Encyclopædias and Dictionaries	„ 12. Calculus
„ 2. Periodicals and Transactions	„ 13. Quaternions
„ 3. Histories, General	„ 14. Probabilities
II. MATHEMATICS	„ 15. Logarithms, Tables
F 4. Periodicals and Transactions	„ 16-25. <i>Blank</i>
„ 5. Histories	XIII. SURGICAL PRACTICE
„ 6. General Treatises	F 861. Surgery Generally
„ 7. Arithmetic	„ 862. Military Surgery
„ 8. Algebra	„ 863. Obstetrics, Maternity
„ 9. Geometry	„ 864. Dentistry
„ 10. Conic Sections	„ 865. Anæsthetics

The method recommended for marking individual books in each section is to number them consecutively in order of accession. Thus, in F 8, a progression like this might result :

F 8'1. Todhunter, Algebra	F 8'3. Anderson, Algebra
F 8'2. Jones, Algebra	F 8'4. Smith, Algebra

But of course accession numbers could be used, or the Cutter author marks.

41. The method of Mr. Lloyd P. Smith was set forth in a book named *On the Classification of Books : a Paper read before the American Library Association, May, 1882* (Boston : 1882). It has an alphabetical index of topics, but so far as we know has not been adopted to any extent even in America. There are only six main classes, and the method is based on the old Paris or French scheme.



## Smith's Scheme (1882)

Class A. Theology	Class O. Belles Lettres
" E. Jurisprudence	" U. History
" I. Science and Arts	" Y. Bibliography

Sub-classes are indicated by letters a, b, c, d, etc.; divisions by figures 1, 2, 3, 4, etc.; and sub-divisions by symbols +, Δ, □, IV, V, VI, etc. The following is part of Class A:

A. RELIGION	o. Ecclesiastical History
a. Toleration	1. Oriental Churches
b. Natural Religion	2. Latin Churches
c. Holy Scriptures	+ Jansenists
1. Bibles	Δ Gallican Church
6. Parts of New Testament	□ Spain
	IV Roman Catholic Church in U.S. and Canada

The notation is not particularly clear, and A o 2 □ seems rather a forbidding symbol to denote the Inquisition in Spain, for example; while if a Cutter author mark, or even accession number, is added, one might get marks like this: A o 2 □, B 98, or A o 2 □, 3649. This rather unfortunate notation does not detract from the merit of the classification as a whole, which is rather high.

42. The last of the published American schemes is that of Mr. W. I. Fletcher, librarian of Amherst College, which was first issued in his little work on *Public Libraries in America*, "Columbian Knowledge Series," No. 11 (Boston, 1894; also London, Low); and afterwards separately "reprinted, with alterations, additions, and an index," as *Library Classification* (Boston: 1894). The first draft of this scheme was published in the *Library Journal* (1889). It is stated by the compiler to have been drafted "to offer a way of escape for those who shrink from the intricacies and difficulties of the elaborate systems, and to substitute for painstaking analytical classification a simple arrangement, which it is believed is better adapted to be practically useful in a library, while doing away with most of the work involved in carrying out one of these schemes." Mr. Fletcher uses eleven main classes, excluding

Fiction and Juvenile, which seem to be considered as separate divisions. The arrangement of the scheme is as follows :

**Fletcher's Scheme**

Fiction (no class number)	125-172. Sciences
Juvenile Books (use J in place of a class number)	179-240. Useful Arts
	245-277. Fine Arts
1-13. English and American Literature ; Universal Literature	279-350. Political and Social
	352-416. Philosophy and Religion
15-75. History	421-456. Language and Literature (English and American excepted)
81-82. Biography	
85-120. Voyages and Travels. Geography	461-468. Reference Books and Special Classes

The blanks between the classes are intended for additional divisions. In arranging books by this method an author-alphabetical sequence in each division is recommended, without author marks or additional symbols. If it is desired to insert a new division between any two existing divisions, the first number is to be taken and differentiated by means of a letter, thus : 114, 114<sup>a</sup>, 115. Individual books are to be designated by means of separate book numbers added to the class numbers. Roscoe's *Chemistry* might therefore simply be marked 146.30. To show the progression of divisions in each class, we subjoin the whole of the class Sciences :

125. History and Philosophy of the Sciences	135. Zoology, Fishes
126. Scientific Societies and Academies. Periodicals	136. Reptiles
127. Essays and Miscellanies	137. Birds
128. Evolution and Cosmology	138. Mammalia
129. Natural History (works combining Zoology, Botany, etc.)	139. Man
130. Biology and Embryology	140. Botany : General
131. Comparative Anatomy and Physiology	141. Cryptogamia
132. Zoology	142. Of Countries and Localities
133. Lowest Forms of Animal Life	143. Geology : General
134. Mollusca. Insects	144. Of Countries and Localities
	145. Mineralogy and Crystallography
	146. Chemistry : General
	147. Inorganic
	148. Organic
	149. Analysis. Text-books

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- |                                             |                                        |
|---------------------------------------------|----------------------------------------|
| 150. Physics                                | 162. Astronomy: General                |
| 151. Heat                                   | 163. Descriptive                       |
| 152. Light. Optics                          | 164. Practical                         |
| 153. Electricity                            | 165. Almanacs (not Statistical)        |
| 154. Telegraph and Telephone.<br>Phonograph | 166. Mathematical Sciences:<br>General |
| 155. Electric Lighting                      | 167. Arithmetic. Book-keeping          |
| 156. Electro-dynamics                       | 168. Algebra                           |
| 157. Sound                                  | 169. Geometry                          |
| 158. Hydraulics                             | 170. Higher Mathematics                |
| 159. Mechanics                              | 171. Geodesy and Surveying             |
| 160. Physical Geography                     | 172. Navigation                        |
| 161. Meteorology                            |                                        |

43. Other schemes have been proposed and carried out in the United States, many of them possessing points of interest and value, but it is not necessary to describe them here. The method of the Mercantile Library of Philadelphia by John Edmands was described in a separate pamphlet—*New System of Classification and Scheme for numbering Books applied to the Mercantile Library of Philadelphia* (Philadelphia: 1885); and other methods or variations of methods have been described in both the *Library Journal* (American) and *Library Chronicle* and *Library* (English).

## CHAPTER V

### *CLASSIFIED LIBRARIES AND CATALOGUES*

44. WE have now described most of the important schemes of classification which have been introduced down to recent times, and may add a few remarks on the application of systematic classification to libraries and catalogues. It matters little what scheme a librarian adopts for his books, provided it is complete in itself and is suitable to the general character of his library. He must decide beforehand whether or not he is going to use a combined scheme for classification, shelf-marking, and charging, or simply going to use it for classification and shelving, plus accession numbers for charging and other purposes. It is important that this point be determined at the outset, as everything depends upon what he intends the system to accomplish. As libraries differ so much in their condition and composition, it is obvious that no single system in its integrity is capable of being successfully applied all round. The classification which suits a general public library of 20,000 or 50,000 volumes will not serve so satisfactorily for a Zoological Library of equal size, because its comparatively broad divisions of Biological Science would be inconvenient in a specialised collection containing a multitude of minute sub-divisions. So in turn would this minuteness of sub-division be even more necessary in an Entomological Library, and still more so in a collection of books and specimens of the Lepidoptera.

45. Having decided on the lines which his classification is to follow, the librarian must see that his scheme is provided with an **alphabetical index**, giving references, not only to actual names or words used in the system, but to synonyms as

well, and all relative words or terms. The necessity for this is apparent, and most American systems have been provided with indexes, that to Dewey's method being particularly elaborate and useful. Without an index the librarian is very apt to make mistakes with any system, in classifying books on topics which might be consistently placed in two or more main classes. Thus, Photography might rank as a department of either Optics or Chemistry and be put in Science, or with equal reason be considered as belonging to the same section as Engraving in Fine Art; while those who deny its claim to be considered a Fine Art would have no hesitation in relegating it to the main class Useful Arts. Librarians often change their minds as regards the class of particular books, especially when they pass through their hands at long intervals. A book on some obscure topic may seem correctly placed in Philosophy when first encountered, while next time a similar work turns up it may be just as confidently placed in Social Science. Hence the necessity for an alphabetical reference index to the scheme of classification and for religiously sticking to a first choice of main class, unless some overpowering reason appears to make a change desirable. There is no hard-and-fast rule for the librarian who classifies without reference to a detailed system, because some subjects are so eclectic that almost any main class will afford them an asylum. Therefore a library classified by memory or the whim of the moment is liable to show some queer instances of human inconsistency and to have its topics distributed impartially all over the place. It is manifest that the mere adoption of a systematic classification is not all that is necessary. To use it intelligently and successfully a librarian must deal with each book of a doubtful kind according to its merits, and bear in mind above all the *purpose*, as far as this can be discovered, for which it has been issued. Jevons in his *Principles of Science* declares that "it is a very difficult matter to classify the sciences, so complicated are the relations between them. But with books the complication is vastly greater, since the same book may treat of different sciences, or it may discuss a problem involving many branches of know-

ledge." Quite so; but every rational system of classification assumes the existence of general or encyclopædic books on all subjects, and provides for the difficulty accordingly, while it must be remembered that the vast majority of books are *particular* or *limited* in scope and not *general* at all. Jevons goes on to illustrate his argument by stating that an account of the Steam Engine may be antiquarian, scientific, economical, or biographical, and so present difficulties as regards its assignment to a definite class. But surely, on the other hand, the book, whatever its style or treatment of subject matter, is on the steam engine and nothing else; and as the whole object of exact classification is to collect together books on specific subjects, there can only be *one* place for books on the steam engine, from whatever point of view they are written. In another part of his work Jevons states that "there is nothing really absurd except that which proves contrary to logic and experience." As experience has proved the absolute value of exact classification, we may assume that excess of logic and lack of experience are jointly accountable for Jevons' attitude towards book classification. Nevertheless, the point which we have raised as to difficulties in the way of assigning places for certain kinds of books, even in detailed systems, is one well worth careful consideration, as it is the one on which everything hinges in any sort of classification, broad or close. Let us take, for example, an inscribed stone to illustrate further the latitude which classification allows in regard to the possible choice of appropriate headings for subjects. Which of the following characteristics are we to accept as the most important in determining the place in a classification?—

1. The Language of the Inscription
2. The Subject of the Inscription
3. The Form of the Letters
4. The Locality in which the Stone is placed
5. The Substance of the Stone itself
6. The History or Traditions of the Stone
7. The Purpose for which the Stone was erected [*i.e.* Landmark or Monument]
8. The Design of the Stone

There is here presented a great diversity of possible allocations for this single subject, which shows that care and intelligence are necessary to the satisfactory use of systematic classification. The example also enforces our remark that *purpose* must be taken largely into account in classification. In most doubtful cases, if we determine the object or reason for the existence of a book or subject, we have reached the solution of the difficulty. In the case of an inscribed stone, not of the "Aiken Drum" or "Bil Stumps" variety,<sup>1</sup> we may assume that it must have been erected as a record of either an event or a person. The choice is thus narrowed down to History or Biography, and common sense counsels the rejection of all qualities which are merely those of form or material. In classifying books therefore we have to pay chief regard to subject and purpose, leaving out of account entirely such features as form, appearance, or style of treatment. A history of England philosophically written has no more right to be placed in Philosophy beside Aristotle, Hume, and Descartes, than a book entitled *Picture Logic* has to be classed as Fine Arts.

46. The main divisions of classification schemes are liable to much change; the sub-divisions are also liable; but specific subjects may be regarded as beyond change in relation to one another, though various circumstances may combine to make their transference to other sub-divisions or main classes desirable. However that may be, the fact remains that it is of the utmost importance in close classification to have books on specific subjects all together, and not distributed among several main classes or their sub-divisions. It is, after all, a matter of minor consequence in which main class any definite subject is put, provided always *all* the works on that subject are kept together and in juxtaposition to other books on related topics. No one is likely to put books on Organic Chemistry among Prose Fiction, or do anything of a similar outrageous character. There is no room in a properly formulated scheme for vagaries of this sort, nor is there much likelihood of any inaccuracies happening, unless in the case of obscure subjects, or those

<sup>1</sup> Scott's *Antiquary*, Dickens' *Pickwick Papers*.

which are so very debateable that it does not really matter where they are put. Such a subject is Numismatics, which has appeared in nearly every possible main class. But if all the single works on Coins and Medals are put together in History, or Social Science (Currency), or Fine Arts, or Useful Arts, does it affect the classification in the slightest degree? Not at all, when it is properly indexed; but certainly, if the index we have urged as indispensable is not provided. It was the lack of proper alphabetical indexes in classified catalogues and schemes which caused De Morgan, Jevons, and other writers of authority to denounce subject classification and classed catalogues as delusions and snares. The misconceptions of the past and the necessities of the present point therefore to a full alphabetical index as an indispensable adjunct to every classification scheme or systematically classified catalogue. In cases where the scheme does not possess a printed index we advise the compilation of a card or slip index for library use, giving simply subject words and class numbers:

Algæ = A 216
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Additions in alphabetical order can be made to this at any time.

47. The question of alphabetical *versus* classified catalogues has been debated for years with more energy and spirit than any other subject connected with librarianship. Not only professional men, but outsiders of all sorts, have laid down the law on the matter, till the special literature of catalogue compilation has grown to large dimensions. Among this accumulation of varied opinion one fact emerges with conspicuous clearness. The advocates on both sides, while admitting excellencies in the form of each variety of catalogue, have failed to observe that neither style is perfect, because not possessing *all* the advantages claimed for both. It has been claimed of course that one form or another has a majority of advantages; but that scarcely affects the point that neither of



them has all. The controversy has therefore been raging over efforts to make one inefficient system serve every purpose. Let us consider for a little the varied information which frequenters of libraries desire. Every librarian knows that before all others facts or *Subjects* are first in demand. In reference libraries, for example, such questions as, "Have you a book on the Indian Mutiny?" "What is the origin of a given quotation?" "When was the Battle of Alma fought?" "What is the flash point of oils?" "Have you a book on cantilever bridges?" "What is the meaning of a given word?" "I want an essay on whales," and so on, are asked twenty times as often as questions concerning authors. Next in importance come questions as to books of a certain *Title*. Questions relating to *Authors* rarely extend to more than demands for other works by the same writer; while questions concerning works written in a certain *Form* (Essays, Poetry, Grammars, etc.) are perhaps least often asked. It is necessary to enforce this statement as to subjects being most in demand, as on this point more than any other turns most of the original argument against classified catalogues. We therefore quote the remark<sup>1</sup> of Mr. F. T. Barrett, himself an opponent of classified catalogues, but a librarian whose experience in all that relates to readers and their wants is second to none. He says: "In my experience the enquiry which is most frequently made is, What is there in the library on some stated subject?" This is in harmony with the experience of every librarian, and may be taken as definitely settling the matter. How, then, does it happen that, from the time of De Morgan till now, there are to be found many influential writers who contend that an alphabetical catalogue under authors' names is all-sufficient? The reason is not far to seek. Most of these men are scholars who have devoted years to the study of particular topics, and who are in consequence saturated with knowledge of the writers on their subjects; or they may be bibliographers or literary men to whom the biographical interest

<sup>1</sup> In a paper on "Catalogues" read before the International Library Conference, 1897.

of author entries appeals with peculiar force. The practice of the British Museum in providing until recently only one huge author-alphabetical catalogue has also had some influence on the opinion of many authors. But none of these opinions have any value where the needs of the general public are concerned. The authorship of a particular book, or piece of music, or work of art, or popular play is about the last thing in connection therewith that the average citizen will remember. When a lady enquires for a song at a music-seller's, it is not by the name of the composer, but almost invariably by its title. So it is as regards books; and Thackeray's little scene in *Pendennis*, where Arthur tells Miss Costigan that Kotzebue wrote *The Stranger*, and she declares that "the man's name at the beginning of the book was Thompson"! may be taken as an exact record of the general state of public interest and knowledge of authors. Save to a very small class of special students (biographers and bibliographers) author catalogues are in themselves of comparatively little value. It seems extraordinary that, at this late time in the life of public libraries, any arguments against the exclusive use of author lists should be necessary. But the inexperienced opinions of past and present writers in positions of authority render some defence needful.

48. Augustus De Morgan was one of the first to attack classified catalogues, and his opinions have been quoted and accepted in many quarters without qualification. He says<sup>1</sup>: "An alphabetical catalogue has this great advantage, that all the works of the same author come together." [This depends largely on the cataloguer and his knowledge of anonyms and pseudonyms.] "Those who have had to hunt for old subjects know very well that of all lots which it is useful to find in one place the works of one given author are those which occur most frequently. Again, those who go to a library to read upon a given subject generally know what authors they want." The late W. S. Jevons agrees entirely in this view,<sup>2</sup> and adds "that classification according to the name of the author is the only one practicable in a large library, and

<sup>1</sup> *Dublin Review* (1846).

<sup>2</sup> *Principles of Science*.

this method has been admirably carried out in the great catalogue of the British Museum. The name of the author is the most precise circumstance concerning a book which usually dwells in the memory." As we have just shown, the opinion of every experienced librarian is dead against this assumption, and it is only necessary to quote the remark of Edwards in reference to the author catalogue of the British Museum: "Many a reader has spent whole days in book-hunting which ought to have been spent in book-reading." Both De Morgan and Jevons wrote from the purely personal standpoint. Each was a scholar, knowing nearly everything there was to be known about his special subject. They lived and wrote before perfect catalogues or classifications had been introduced, and De Morgan illustrates in his own case the folly of depending on memory and author lists alone for bibliographical or other information concerning subjects. If De Morgan could have had access to properly compiled subject catalogues, the little bibliography of *Arithmetical Books* (1847), on which he must have been engaged when he laid down the law regarding author catalogues, would have been rendered much more perfect. The very best mathematical or logical memory in the world is not capacious enough to retain *everything* relating to even a small subject; hence the enormous advantage of subject lists in one place over author entries scattered in alphabetical order throughout a catalogue of perhaps a hundred thousand titles. Practically the whole of the classified catalogues to which writers like De Morgan (1845-46) and Jevons (1873) had access were imperfectly indexed or not indexed at all, and down to comparatively recent times complete systematic classifications and catalogues were non-existent. Mr. Cutter, writing in 1876,<sup>1</sup> states that he only knew of three classified catalogues in the United States which had proper indexes. These were issued by the Mercantile Library of Philadelphia (1850), the Newark Library Association (1857), and the California State Law Library (1870). In England there was an equal paucity of good examples, though several indexed

<sup>1</sup> *Public Libraries of America.*

catalogues, such as the Royal Institution (1857), had been issued, and even in 1805 an attempt had been made, in a catalogue of the Signet Library, Edinburgh,<sup>1</sup> to render the contents of the classified portion available by means of indexes. But the general run of catalogues were bare, unindexed, classified inventories, to use which it was necessary, as De Morgan points out, for readers to place themselves in the impossible mental position of seeing everything from the compiler's standpoint.

49. About 1857 a new order of catalogue began to become common, which has remained till now the standard pattern in most British public libraries. This was the so-called Dictionary<sup>2</sup> catalogue, arranged in a single alphabet of authors, titles, and such subject words as occurred on the title-pages. The once widely circulated and strongly believed dictum that no cataloguer had a right to go beyond the title-page of a book for particulars of its subject or scope was originally laid down by Dr. Crestadoro, of Manchester, and adopted in many quarters, as plenty of catalogues remain to prove. Of course the main idea in propounding such a doctrine was based on the De Morgan-Jevons formulæ that readers knew either the authors or titles of the books they wanted and did not particularly require to know about subject matter. Most modern librarians have abandoned this position, and many good examples exist of dictionary catalogues accurately and intelligently compiled. But few, if any, of such catalogues succeed in giving in one comprehensive view the titles of all books possessed by the library on important subjects. In British examples of such dictionary catalogues the failure is very marked, even in the few cases where cross-references intended to bind together the disjointed parts of a main subject have been lavishly used.

<sup>1</sup> *Classified Catalogue*, compiled by George Sandy, librarian, "with an Alphabetical Index of Authors and Subjects."

<sup>2</sup> The first English use of this term seems to be that on the title-page of the Middle Temple Library (London) Catalogue of 1734—*Catalogus librorum Bibliothecæ Honorabilis Societatis mediæ Templi Londini, ordine Dictionarij dispositus*.

We have already pointed out that neither the classified nor dictionary forms of catalogue are sufficient in themselves to convey every variety of information. For one thing, a classified catalogue spreads the works of certain authors, but collects and shows in close relationship those about subjects, specific and general. The ordinary dictionary catalogue shows the works of given authors all together in one place, but distributes the information concerning large topics, and frequently small ones also. For example, the student of Biology using a recent public-library dictionary catalogue would have to look in thirty-nine or more places for all the books bearing on the subject and its sub-divisions. He would not find anywhere a collective list of topics, but would have to range from one part of the alphabet to another in pursuit of information. Here are a few of the headings in this particular catalogue, just as we found or remembered them: Biology, Sea-shore and Sea-weeds, Botany, Natural History, Aquarium, Birds, Evolution, Fishes, Insects, Microscope, Marine Zoology, Ocean, Palæontology, Taxidermy, Zoology, Science, Physiology, Ferns, Fungi, Bacteria, Flowers, Trees, Molluscs, Apes, Anthropology, Monkeys, Reptiles, Mosses, Butterflies, Spiders, Heredity, Crustacea, Embryology, Worms, etc. In a classified catalogue the reader would find all the biological works collected in systematic order within a few pages, while the alphabetical index would instantly guide him to any specific heading. Another point to be considered as regards dictionary catalogues in one alphabet is the additional cost of repeating entries under author, subject, and title. In classified catalogues one full entry under the class usually suffices, all the relative index entries being merely single words or short lines.

50. When all is said that can be said for and against each type of catalogue, it will be found by librarians that the public will derive most advantage, not from an attempt to make one of the two imperfect forms serve every requirement, but from the full provision of both varieties. No librarian has a right to assume that a classified catalogue alone will suit all his readers, nor must it be supposed either that alphabetical

catalogues are easier used or more appreciated by the public. Personal experience of both varieties and the success of classed catalogues in the United States have convinced us that readers in libraries use one sort with as much facility as another. It is all a matter of custom and experience. To young librarians we tender the advice that, when compiling alphabetical dictionary catalogues for printing, they should prepare adequate class lists as well, to be kept in MS. if the cost of printing is too great. And to those who prefer printed classified catalogues or class lists we advise an adequate provision of alphabetical indexes, either printed or MS. By this combination of advantages the catalogue will more perfectly make known the treasures and resources of the library, while there will be added the satisfaction of knowing that all classes of reader and all kinds of enquiry about books are likely to be adequately served and answered. It may be mentioned incidentally that exact classifications and classified catalogues possess one great advantage in common which is not shared by any purely alphabetical or broad system. When libraries are being formed, the task of selecting representative books on specific subjects and classes at large is greatly simplified and facilitated by the suggestive tables of relative subjects always to be found in close methods of classification. Any one who uses the *English Catalogue*, or some such alphabetical list, and afterwards compiles his lists from Sonnenschein's *Best Books*, will be strongly impressed with the truth of this statement.

51. One of the most frequent objections urged against exact classification is the fact that many books treat of two or more different subjects, and consequently do not readily fall into any particular class or division. The books in question are not so much encyclopædic works, or even general works belonging to specific main classes, as books which treat of two or more main classes, and two or more divisions of a single main class. Hitherto it has been the practice of classifiers to treat such composite books as class-general or division-general works, the result being that in many cases they are separated entirely from other related topics and become lost

in a general heading. Of course this affects the shelves only. In the catalogue it is assumed that all necessary analyses and cross-references from and to headings are supplied. To partly get over the difficulty of separating books from the smallest divisions that will contain them, and to avoid making general classes or divisions mere refuges for everything doubtful or composite, we have proposed a method of marking, in the Adjustable Classification tabulated in Section 58, which will to some extent minimise the evil.

52. Proposals have been made at various times for classifying Fiction otherwise than in broad national or alphabetical divisions such as are adopted in various schemes, but so far none of them have been carried into actual practice. In 1881 Mr. A. P. Massey, of Cleveland, Ohio, published<sup>1</sup> a plan for numbering the surnames of novelists to facilitate shelving and charging, in a manner very similar to that used by Mr. Cutter in his author tables. Several librarians have given in their catalogues, under various historical headings, lists of novels dealing with particular periods or events. Historical novels have also been classified and tabulated in Bowen's *Historical Novels and Tales* (1882), and elaborately catalogued by the libraries of Boston (U.S.), San Francisco, Los Angeles (U.S.), Clerkenwell, Peterborough, etc. But no attempt has been made to extinguish the class entirely by distributing its contents among the other classes of the library. A jocular proposal to this effect was made in an article on "Fiction Classification" contributed to the *Library* of 1896 by the present writer. In this it was pointed out that Fiction is only a method of "instruction by parable," and that novels generally had subject matter sufficiently definite to enable them to be classed like formal treatises on sciences, history, or philosophy. Didactic poetry also lends itself to the same kind of treatment, and no doubt the day will come when books will be classified *only* according to their subject matter, and not by the particular *form* in which they are written. Metrical chronicles, like those of Wyntoun, can only be called poetry by a very wide stretch

<sup>1</sup> In the *Library Journal*, Vol. VI. (1881), = "Classification of Fiction."

of indulgence ; and there are hundreds of other works in rhyme which are equally devoted to other prosaic subjects. But difficulty arises when a rule has to be rigidly applied all round. Charles Reade's *It is Never Too Late to Mend* is a contribution, of a sort, to the literature of prison management ; and Scott's *Quentin Durward* may be regarded as a masterly sketch of the crafty Louis IX. Yet to many minds it would seem an outrage to class the former in Social Science and the latter in Biography or History. And would it not be a frightful strain upon one's reverence for literary art and sympathy with traditional usages to class imaginative works like Thomson's *Seasons* as Physiography, Falconer's *Shipwreck* as Navigation, Milton's *Paradise Lost* as Theology, or Goldsmith's *Deserted Village* as Irish Topography ?

53. To avoid some of the difficulties of classification, especially in regard to overlapping classes or topics, attempts have been made at national divisions, of which Mr. Cutter's "local" list may be mentioned as an instance. There is a considerable attraction about the plan of adopting nationality as the basis for classification, and in many cases a real convenience would result. An ingenious mind could very easily elaborate such a method by starting with the assumption that all literature is divisible into two main classes, the Abstract and the National. Books which treat of sciences or arts in the abstract without particular reference to geographical areas could be classified according to any minute scheme as at present. Books treating of sciences or arts with reference to nationality could be classified under each country in the order of the abstract main classes. Thus a result would be obtained like this :

ABSTRACT. Class A, B, C, D, E, F, G, etc.

NATIONAL. England. Class A, B, C, D, E, F, and so on.

We have never seen a classification proposed or carried out on this basis, but the suggestion is worth consideration. So far as real saving of numbers or places is concerned, we think there would be none, because, if the Botany of England did



not appear in Abstract, Class A, it would have to appear in National, England, Class A ; and so with every other country. We recommend this system to young librarians for consideration and study.

Our descriptions of book arrangement on the shelves have been mainly confined to those by authors, numbers, subjects, and sizes ; but other proposals have been made from time to time. It will be sufficient to briefly refer to Mr. W. S. Biscoe's "Chronological Arrangement on Shelves," which was proposed in the *Library Journal* (1885). For certain subjects or special collections a chronological arrangement has decided advantages, but for general libraries it cannot be recommended. Mr. Biscoe's proposal is to assign a letter for certain groups of years thus :

A = Before Christ	J = 1830 to 1839
B = 0 to 999	K = 1840 to 1849
C = 1000 to 1499	L = 1850 to 1859
D = 1500 to 1599	M = 1860 to 1869
E = 1600 to 1699	N = 1870 to 1879
F = 1700 to 1799	O = 1880 to 1889
G = 1800 to 1809	P = 1890 to 1899
H = 1810 to 1819	Q = 1900 to 1909
I = 1820 to 1829	R = 1910 to 1919.

Undated books to be approximately placed and marked with the letter of the supposed date. Thus M would indicate a book issued between 1860 and 1869. All other books receive letters and numbers in this manner: 1623 = E 23; 1814 = H 14; 1898 = P 98, and so on. The letter represents a century or decade, and the figures the actual year of the century.

## CHAPTER VI

### *ADJUSTABLE CLASSIFICATION SCHEME*

54. This method of classification has been compiled largely in response to a demand for an English scheme with a notation enabling continual intercalation of divisions and single topics or books to be carried on. The Quinn-Brown method (Section 33) has been used as a basis, but suggestions have been freely adopted from every important classification described in this Manual.

The name "Adjustable" has been taken to distinguish the system from all others and to describe its principal feature.

The main classes are distinguished by the first eleven letters of the alphabet, excluding I, and are arranged thus :

- A. Sciences
- B. Useful Arts
- C. Fine and Recreative Arts
- D. Social and Political Science
- E. Philosophy and Religion
- F. History and Geography
- G. Biography and Correspondence
- H. Language and Literature
- J. Poetry and Drama
- K. Prose Fiction
- L. Miscellaneous

Should it be thought desirable to have more main classes, or to divide any of those already fixed, double letters can be used for the purpose, as shown below :

- |                           |                       |
|---------------------------|-----------------------|
| A. Natural Sciences       | D. Social Science     |
| AA. Mathematical Sciences | DD. Political Science |
| B. Useful Arts            | E. Philosophy         |
| C. Fine Arts              | EE. Religion          |
| CC. Recreative Arts       | And so on             |

When this is done, it will be necessary, or at least desirable, to renumber the divisions under each main class, and change the reference numbers in the index.

In each main class the class letter alone is given to general works covering the whole or a considerable portion of the subject matter of the class at large. Thus B would mark all the general treatises or dictionaries on the Useful Arts; G general collections of Biography. The letters from M to Z can be reserved for special or local collections which are kept separate. It has not been thought advisable to provide for an elaborate system of sub-classes, divisions, and sub-divisions, but simply to number in one sequence of even numbers each sub-class or division in its order. This enables the class of most books to be easily expressed by the plain notation of a letter and a figure or two—G 2, B 30, F 196, etc. The odd numbers are reserved for fresh divisions of the main classes, and it is thought this feature will be found useful in most libraries where new subjects are continually cropping up.

If it is absolutely necessary to use more divisions than the scheme provides, even when the odd numbers are all appropriated, this can be done by adding letters thus :

F 641	F 642 <sup>b</sup>
F 641 <sup>a</sup>	F 642 <sup>a</sup>
F 641 <sup>b</sup>	F 643
F 642	F 644
F 642 <sup>a</sup>	

55. Minute sub-division to any extent may be carried out by simply adding to the divisional numbers, after a hyphen, a fresh series of odd numbers from 1 onwards in each case. Thus one might get this progression :

G 12. Scottish General Biography	G 12-5. Scottish Covenanters
G 12-1. „ Artists	G 12-7. „ Monarchs, etc.
G 12-3. „ Authors	

which seems minute enough and clear enough for all ordinary purposes. Further sub-division is quite unnecessary in most public libraries; but should it be deemed absolutely indis-

pensable, it can be carried out with a little extra complication and trouble by starting another series of odd numbers after a colon, so :

G 12-3.	Scottish Authors,	G 12-3:3.	Scottish Novelists
	General	G 12-3:5.	„ Poets
G 12-3:1.	„ Historians		

But the plan of wide sequential numbering adopted in each class should render the use of wearisome sub-division almost needless in the majority of cases. As in the case of divisions, alternate numbers only need be used, the even series being available for additional sub-divisions.

56. In applying the system it is recommended that the class letter and number be used for shelving and cataloguing only, and that charging or other necessary registration be done by means of the accession numbers. Each book as received should get the usual progressive accession number, and in addition the class letter and number showing where it is to be located. For this system it is not necessary to number alcoves, presses, or shelves, as the books will stand in the order of the classification herein tabulated. Additions can be made at any time and at any point, and each book takes its place, if correctly marked, among all the other books on the same subject.

In the catalogue it will be advisable to print both accession and class numbers, one series on each margin, so that the system can be applied to libraries using indicators, cards, ledgers, or open access. Where an indicator is used the accession numbers must be kept in one sequence, and in the case of Cotgreave's variety the class letters and numbers must be written into the indicator books, while in the case of Chivers' variety the same must be done on the recording tabs, as a direction to the assistant. Or a brief application form may be used, giving both class and book numbers, as will be necessary in the case of the Elliot or any other indicator having numbered pigeon-holes.

57. The arrangement of divisions on the shelves will be by authors alphabetically. There is no absolute need to mark

individual books further if this is done properly. The accession number being used for charging, renders any system of author marks unnecessary. In open access libraries the shelves should be plainly marked with labels specifying their contents. Presses should also be marked with the names of the main classes shelved. It is further recommended that in such libraries the books on all shelves be differentiated by means of coloured labels, such as are generally used in British open access libraries, in order to aid the eye in detecting misplacements. The presence of a mere class or notation mark on the back of a book is not sufficient in itself to prevent misplacement, owing to the uniformity of the general appearance. It should be possible to detect instantly such a transposition as G 10 for C 10, without scanning each shelf carefully and separately.

**58. Composite Books.** When a book treats of two or three different classes, in whole or part, it is not to be put in Class L or L 34, but with the books in the class most fully covered by the preponderating subject (see Section 51). The author's description on the title-page is to be accepted as the authority for the relative importance of classes, the first subject word being always taken; but where this is vague, bulk must be taken to represent values. Thus a book entitled *Hints on Chemistry, Engraving, and Building Construction*, if put with Class L or L 34, is completely separated from all related subjects; but if marked A 250 × C 104 × B 60, and placed after A 250, its composite character is at once indicated, and the book shelved with the class of which its most important section treats. Luckily main classes are very seldom mixed like our example, unless in encyclopædic works, and it will not often be necessary to insert composite works like the one mentioned. The main value of this composite marking will be found in single main classes, in which examples frequently occur of books treating of two or three distinct divisions. Fortune's *Journey to the Capitals of Japan and China* (1863), if put in F 454, "Asia, General," is widely separated from all the other literature of both China and Japan; and though the catalogue would no doubt bring such scattered articles together,

it is just as desirable that the shelves should give the same information as far as physically possible. If, therefore, Fortune's book is marked F 508 × 470, the local section will be strengthened, and the general section, always a dumping ground for the vague or the complex, will be made less unwieldy and overcrowded. One of the best descriptions of the arid plains of Queensland will be found in Boothby's *On the Wallaby*, which contains a preliminary tour through Ceylon, the Malay Peninsula, Java, and New Guinea. The title gives some idea of this; but a very brief examination of the book will show the exact ground covered, and also bring out the fact that Queensland is the preponderating subject. If marked F 86, a valuable contribution to the descriptive topography of Queensland is separated from all other books on that topic; but if marked F 1290 × 86, it at once takes its place with the geographical division of which it principally treats, while at the same time it is qualified in such a manner as to indicate that it deals with other areas.

Three separate topics in one composite book seems a fair limit for the "General," which is not general enough to be separated from some allied class or division. When more than three independent classes are included in one book, it is best that it should be treated as an encyclopædic composite, and put in Class L 34. In the case of works treating of more than three independent divisions of a main class, the same rule is to be observed, the "General" number in each case being the receptacle.

59. As indicated above (Section 54), special collections of all kinds can be marked by the unused class letters M to Z. It is generally best not to incorporate such collections in the ordinary classification, but to shelve them apart. The books in a special collection, of whatever nature, are to be classified the same as other books; but a qualifying letter can be used to distinguish them. A collection of books on the county of Northampton could be indicated by the additional class letter N put before the ordinary class letter and number. For example:

102 *Manual of Library Classification—59, 60*

NA 8. Scientific Societies, Journals, Reports, etc.	NG 8. Local Biography, General
NA 62. Local Fauna	NH 158. Glossaries
NA 106. Ornithology	NH 384. Libraries
ND 434. Schools—Histories and Reports, etc.	NJ 14. Poetry
	And so on

In ordinary libraries the sub-division of countries can be carried out by adding sub-divisional numbers to express the classification thus :

F 750. Northamptonshire, Generally
750-1. Scientific Societies, Journals
750-3. Fauna and Flora
750-5. Geology
Etc.

Special collections of a certain author's works can also receive an independent letter ; but in this case the following arrangement is recommended. In a collection relating to Shakespeare, Scott, Burns, or other great author, proceed thus :

S 1. Collected Editions in Chronological Order. Author's	S 7. Musical Settings of Works
S 2. Collected Editions in Chronological Order. Editors'	S 8. Dramatic Versions of Works
S 3. Selections	S 9. Pictures suggested by Works
S 4. Single Works in Chronological Order of Publication, Originals and Reprints together, and Parodies	S 10. Biographies
S 5. Translations of Collected Works	S 11. Correspondence, including Autographs
S 6. Translations of Single Works	S 12. Portraits
	S 13. Criticism, History, and Aids to Study of Works
	S 14. Periodicals and Societies
	S 15. Ana, Scraps, etc.
	S 16. Bibliography

Other varieties of special collections can be arranged in any order to suit local conditions ; but as we have said before, it is best to keep such collections separate, as there will always be a tendency to distort classes or divisions by including specially fostered subjects.

60. In all schemes of classification the question of the sizes of books crops up as a disturbing or qualifying factor.

It would be an extravagant waste of space to shelve Owen Jones's *Grammar of Ornament* alongside Lewis Day's little books on the same subject, or to place the huge atlases of Johnston and Stanford cheek-by-jowl with pocket varieties. Convenience, considerations of appearance, and even tradition, all point to the separation of the great from the small as inevitable. New libraries should therefore provide adequate storage room for quarto and folio books in addition to ordinary octavos, and this is best done by erecting special cases with space for folios below and quartos above a projecting ledge about three feet from the floor. The classes will run in three separate sequences—one for demy 8vos and under, one for royal 4tos and under, and another for folios larger than the largest 4to and above that size. In the catalogue these can be indicated thus :

Octavos, etc.	No mark other than the class letter and number
Quartos	By an asterisk <i>before</i> the class letter, *F 90
Folios	By a small cipher <i>before</i> the class letter, °F 90

Experience proves that qualifying letters or signs put *after* numbers are generally overlooked. For staff purposes it is not needful to put guides, dummies, or directs on the shelves where folios and quartos ought to be. For the public, if open access is allowed, a general statement explanatory of the triple arrangement posted liberally about will be found ample ; or class location books can be used. In Lending Libraries it will seldom be necessary, unless as regards Music, to provide much folio or quarto space. There are several good varieties of adjustable shelving now to be had, which greatly diminish the difficulties connected with size classification.

It only remains to state, as regards the classification itself, that the divisions "General" and "Special" provided all through the tables are intended to render sub-division easy when the library has attained very large dimensions. B 90 will probably contain every variety of *complete* general work on Civil Engineering ; while for years to come the division B 92 will serve to mark works on single parts of the main topic, as



Bridges, Canals, Docks, Harbours, Roads, etc. When the time arrives, the only fresh mark necessary will be a simple figure added to the existing divisional number :

B 92-1. Bridges

B 92-3. Canals

B 92-5. Docks

B 92-7. Harbours

B 92-9. Roads

or whatever the subjects may be. There is no complication about this, and the sub-divisional numbers may be kept from the very first if thought necessary. The "Adjustable Classification" is not put forth as either perfect or complete, nor is the index more than a fair selection of likely subject words. Suggestions for improvement and notifications of errors or omissions will gladly be received by the author.

## TABLES OF ADJUSTABLE CLASSIFICATION

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>A. SCIENCE, General</b></p> <p>2. History</p> <p>4. Theory and Philosophy</p> <p>6. Periodicals</p> <p>8. Societies</p> <p>10. <b>Biology, General</b></p> <p>12. Theory and Evolution</p> <p>14. Periodicals and Societies</p> <p>16. Methods of Research</p> <p>18. Microscopy and Laboratory Practice</p> <p>20. General Collectors' Manuals, Menageries</p> <p>22. Taxidermy</p> <p>24. Systematic, General</p> <p>26. Bacteriology</p> <p>28. Popular [Essays and Sketches of Animal and Plant Life]</p> <p>30. <b>Zoology, Man, General</b></p> <p>32. Periodicals and Societies</p> <p>34. Prehistoric</p> <p>36. Ethnology and Anthropology</p> <p>38. Natural History and Homologies</p> <p>40. Anatomy, General</p> <p>42. Special</p> <p>44. Periodicals and Societies</p> <p>46. Physiology, General</p> <p>48. Special Organs</p> <p>50. Expression, Temperament</p> <p>52. <b>Zoology, Animal, General.</b> History, Theory</p> <p>54. Periodicals</p> | <p>56. Societies</p> <p>58. Systematic, General</p> <p>60. Classification and Distribution</p> <p>62. Local Fauna</p> <p>64. Comparative Anatomy and Physiology</p> <p>66. Embryology</p> <p>68. Popular [Essays and Sketches of Animal Life]</p> <p>70. <b>Vertebrates, General</b></p> <p>72. <b>Mammalia, General</b></p> <p>74. Economic</p> <p>76. Primates (Monkeys, etc.)</p> <p>78. Chiroptera (Bats)</p> <p>80. Insectivora (Insect-eaters)</p> <p>82. Carnivora (Flesh-eaters: Lions, Tigers, Dogs, Cats)</p> <p>84. Economic (Dogs, Cats, etc.)</p> <p>86. Rodentia (Gnawers: Rats, Mice, etc.)</p> <p>88. Economic</p> <p>90. Ungulata (Hoofed animals)</p> <p>92. Economic</p> <p>94. Sirenia (Manatees, <i>vul.</i> Mermaids)</p> <p>96. Cetacea (Whales, Seals, etc.)</p> <p>98. Edentata (Sloths, etc.)</p> <p>100. Effodientia (Pangolins)</p> <p>102. Marsupialia (Pouched mammals: Kangaroos)</p> <p>104. Monotremata (Egg-laying mammals: Platypus)</p> <p>106. <b>Birds, General</b></p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- A** 108. Economic Ornithology  
 110. Raptores (Birds of prey : Eagles, Owls)  
 112. Insessores (Perching birds)  
 114. Scansores (Climbers : Parrots, Cuckoos)  
 116. Rasores (Scratchers : Pigeons, Pheasants, Fowls)  
 118. Economic (Poultry)  
 120. Cursores (Runners : Ostriches)  
 122. Grallatores (Waders : Cranes, Bustards)  
 124. Natatores (Swimmers : Swans, Ducks, Gulls)  
 126. Periodicals  
 128. Societies  
 130. Reptiles, General  
 132. Crocodilia (Crocodiles)  
 134. Chelonia (Turtles, Tortoises)  
 136. Sauria (Lizards)  
 138. Ophidia (Snakes)  
 140. Amphibians (Frogs, etc.)  
 142. Fishes, General  
 144. Special  
 146. Economic (Fish culture)  
 148. Minor Classes of Vertebrates  
 150. Invertebrates, General  
 152. Crustacea (Crabs, Lobsters, etc.)  
 154. Arachnida (Spiders)  
 156. Myriapoda (Centipedes)  
 158. Insects, General  
 160. Economic, General  
 162. Coleoptera (Beetles)  
 164. Orthoptera (Grasshoppers)  
 166. Neuroptera (Dragonflies)  
 168. Hymenoptera (Bees, Wasps, Ants)  
 170. Economic (Agriculture: Bee-keeping)  
 172. Lepidoptera (Butterflies, Moths)  
 174. Economic (Silkworms)  
 176. Hemiptera (Bugs, etc.)  
 178. Diptera (Flies)  
 180. Entomological Societies and Periodicals  
 182. Mollusca (Oysters, Snails, Cuttlefish)  
 184. Brachiopoda (Lampshells)  
 186. Echinoderma (Starfish, Sea Urchins)  
 188. Bryozoa (Sea Mats)  
 190. Vermes (Worms)  
 192. Cœlentera (Sponges, Corals, Jellyfish)  
 194. Protozoa (Animalculæ, Lowest forms of life)  
 196. Botany. Societies  
 198. Periodicals  
 200. General, Systematic  
 202. Popular (Essays and Sketches)  
 204. Phanerogamia, General (Flowering plants)  
 206. Special (Flowers, Leaves, etc.)  
 208. Cryptogamia, General  
 210. Filicinæ (Ferns)  
 212. Mosses  
 214. Fungi (Mushrooms)  
 216. Algæ (Seaweeds)  
 218. Local Floras  
 220. Economic, General  
 222. Special (Coffee, Cotton, Flax, Tea, Tobacco, etc.)  
 224. Geology. Societies and Periodicals  
 226. History and Theory  
 228. Systematic, General  
 230. Petrology, Lithology  
 232. Local  
 234. Field and Popular  
 236. Economic  
 238. Palæontology, General  
 240. Zoology  
 242. Botany  
 244. Mineralogy, General  
 246. Special  
 248. Crystallography

- A 250. Chemistry.** Societies and Periodicals  
 252. History and Theory  
 254. Systematic, General  
 256. Inorganic  
 258. Organic  
 260. Analysis  
 262. Electro-Chemistry  
 264. **Physics.** Societies and Periodicals  
 266. History and Theory  
 268. Systematic, General  
 270. Electricity and Magnetism, General  
 272. Special  
 274. Heat  
 276. Hydrostatics, Hydraulics  
 278. Light (Optics), General  
 280. Special  
 282. Mechanics (Dynamics), General  
 284. Special  
 286. Pneumatics  
 288. Sound (Acoustics)  
 290. **Physiography.** Societies and Periodicals  
 292. General  
 294. Earthquakes  
 296. Volcanoes, etc.  
 298. Glaciers, Icework, etc.  
 300. Meteorology  
 302. Hydrography, Ocean Currents, etc.  
 304. **Astronomy.** Societies and Periodicals  
 306. History and Theory  
 308. Systematic, General  
 310. Sun  
 312. Stars and Planets  
 314. Moon  
 316. Comets and Meteors  
 318. Popular (non-mathematical)  
 320. Nautical  
 322. **Mathematics.** Societies and Periodicals  
 324. History and Theory  
 326. Systematic, General  
 328. Algebra  
 330. Arithmetic  
 332. Book-keeping  
 334. Calculus  
 336. Geodesy and Surveying  
 338. Geometry, Conic Sections  
 340. Logarithms  
 342. Mensuration  
 344. Probabilities, Annuity Tables  
 346. Trigonometry  
 348. Weights and Measures  
 350. Metric System  
 352. **Occult Sciences,** General  
 354. Alchemy  
 356. Astrology  
 358. Magic, Necromancy  
 360. Mesmerism, Animal Magnetism  
 362. **Psychical Research**
- 
- B. USEFUL ARTS, General**  
 2. Societies. Exhibitions  
 4. Periodicals  
 6. History  
 8. **Inventions**  
 10. Patents Specifications, British  
 12. American  
 14. French  
 16. German  
 18. Other  
 20. **Recipes, General**  
 22. **Agriculture.** Societies and Periodicals  
 24. History  
 26. General (British)  
 28. Farm Buildings and Implements  
 30. Farm Soils and Crops  
 32. Farm Stock, General (Breeding and management of Horses, Sheep, Cattle, Pigs, etc.)

- B** 34. Farm Stock, Special  
 36. Dairy Farming  
 38. Special Cultivations, Foreign  
     [Coffee, Cotton, Tea, Sugar,  
     Tobacco, Vines, etc.]  
 40. Gardening and Forestry.  
     Societies and Periodicals  
 42. History  
 44. General  
 46. Fruit Culture  
 48. Flower Culture  
 50. Kitchen and Market Gardening  
 52. Landscape and Formal Garden-  
     ing  
 54. Window Gardening  
 56. Forestry, General  
 58. Special  
 60. Building. Societies and  
     Periodicals  
 62. General  
 64. Construction, General  
 66. Special  
     1. Materials, General  
 70. Special [Bricks, Lime,  
     Stones, Timber, etc.]  
 72. House Decoration  
 74. Sanitation, Ventilation, Gas-  
     fitting, etc.  
 76. Engineering. Societies and  
     Periodicals  
 78. General  
 80. History  
 82. Aerial. Societies  
 84. General  
 86. Special  
 88. Civil. Societies and Periodi-  
     cals  
 90. General  
 92. Special  
 94. Electrical. Societies and  
     Periodicals  
 96. General  
 98. Lighting  
 100. Telegraphy  
 102. Telephone, Phonograph, etc.  
 104. Mechanical. Societies and  
     Periodicals  
 106. General  
 108. Applied Mechanics  
 110. Workshop Practice  
 112. Machinery, Tools  
 114. Military, and Art of War.  
     Periodicals and Societies  
 116. General  
 118. Army Organisation, British  
 120. Foreign  
 122. Arms and Armour  
 124. Artillery  
 126. Cavalry  
 128. Engineers  
 130. Infantry  
 132. Militia  
 134. Volunteers  
 136. Yeomanry  
 138. Fortification  
 140. Barracks, Transport, etc.  
 142. Tactics  
 144. Naval. Societies and Peri-  
     odicals  
 146. General  
 148. Navy Administration, British  
 150. Foreign  
 152. Tactics and Warfare  
 154. Shipbuilding, General  
 156. Special  
 158. Seamanship and Navigation,  
     General  
 160. Special. Charts, Sailing  
     Directions  
 162. Lifeboats  
 164. Lighthouses  
 166. Coastguard  
 168. Merchant Service and Sailors  
 170. Mining and Quarrying. So-  
     cieties and Periodicals  
 172. History  
 174. General  
 176. Prospecting

- B** 178. Coal Mining
180. Iron    "
182. Gold   "
184. Silver  "
186. Lead   "
188. Salt    "
190. Tin     "
192. Railway. Societies and  
      Periodicals
194. General
196. Special (including Tramways)
198. Steam and Gas. Societies  
      and Periodicals
200. History
202. Theory
204. Systematic, General
206. Stationery Engines
208. Marine Engines
210. Locomotive Engines
212. Gas Engines
214. Other Engines
216. Metallurgy. Societies and  
      Periodicals
218. General
220. Assaying
222. Alloys
224. Casting and Founding
226. Iron and Steel
228. Gold
230. Silver
232. Lead
234. Copper
236. Other
238. Electro-Metallurgy
240. Manufactures and  
      Trades. Societies and  
      Periodicals
242. General
244. Book Production, General
246. Paper Manufacture. Societies  
      and Periodicals
248. General
250. Typefounding, General
252. Typefounder's Catalogues
254. Printing. Societies and Peri-  
      odicals
256. General
258. Special
260. Binding. Periodicals
262. General
264. Special
266. Publishing. Societies and  
      Periodicals
268. General
270. Bookselling and Stationery.  
      Periodicals
272. General
274. Chemical Trades. Societies  
      and Periodicals
276. General
278. Chemicals (Acids, Alkalies,  
      Drugs, etc.)
280. Dyeing and Bleaching
282. Explosives, Fireworks. Fuel
284. Perfumes
286. Brewing
288. Distilling
290. Wine-making
292. Oils, Colours, etc.
294. Soap and Candles
296. Varnishes, Glues, Rubber,  
      etc.
298. Clothing and Hosiery Trades
300. Coach and Carriage Building,  
      General
302. Special
304. Motor-cars
306. Fisheries. Societies and  
      Periodicals
308. History
310. General
312. Special
314. Food Production, General
316. Special
318. Gas. Societies and Periodi-  
      cals
320. History
322. General

- B** 324. Special  
 326. Glass, General  
 328. Special  
 330. Leather. Periodicals  
 332. General  
 334. Boot and Shoemaking, Saddlery  
 336. Metal-working, General  
 338. Blacksmithing  
 340. Brass-working  
 342. Gold-working  
 344. Silver-working  
 346. Jewellery Manufacture. *See also* Costume, 504  
 348. Lead and Copper-working  
 350. Sheet Metal-working  
 352. Cutlery  
 354. Gunsmithing  
 356. Locks and Safes  
 358. Cycles and Sewing Machines. Periodicals  
 360. General  
 362. Watch and Clock-making (Horology). Periodicals, General  
 364. Special  
 366. Dialling and Dials  
 368. Bells  
 370. Scientific Instrument-making. Periodicals  
 372. General  
 374. Other Trades  
 376. Musical Instruments, General  
 378. Special  
 380. Pottery. Societies and Periodicals  
 382. History  
 384. General  
 386. Special  
 388. Textiles. Societies and Periodicals  
 390. General  
 392. Carpets. Tapestry, Rope and Twine  
 394. Cotton. Spinning and Weaving  
 396. Lace  
 398. Linen  
 400. Silk  
 402. Wool. Spinning and Weaving  
 404. Wood-working. Societies and Periodicals  
 406. General  
 408. Carpentry and Joinery, General  
 410. Special  
 412. Furniture and Upholstery, General  
 414. Special  
 416. Pattern-making  
 418. Picture-framing, Toys, etc.  
 420. Other Branches  
 422. Shopkeepers' Manuals  
 424. Medical Science. Societies and Periodicals  
 426. History  
 428. General  
 430. Medicine, Allopathic  
 432. Homœopathic  
 434. Hydropathic  
 436. Domestic  
 438. Diseases, General  
 440. Special and Local  
 442. Obstetrics. Diseases of Women  
 444. Diseases of Children  
 446. Pathology  
 448. Materia Medica, Therapeutics, Pharmacy  
 450. Medical Jurisprudence and Toxicology  
 452. Surgery, General  
 454. Dental  
 456. Special and Local  
 458. Nursing. Periodicals  
 460. General  
 462. Special  
 464. Hospitals and Asylums  
 466. Ambulance, First Aid, Life-saving

- B 468. Hygiene and Demography.**  
     Societies and Periodicals  
 470. General  
 472. Public Health, General  
 474. Special  
 476. Personal Health, General  
 478. Special  
 480. Physical Training  
 482. Veterinary Medicine and  
     Farrery. Societies and  
     Periodicals  
 484. General  
 486. Special  
 488. Household Arts. Peri-  
     odicals  
 490. General  
 492. Furnishing  
 494. Domestic Economy. Laundry  
     Work  
 496. Foods, Dining, Beverages  
 498. Cookery, Confectionery  
 500. Needlework  
 502. Dressmaking, Millinery  
 504. Costume and Dress [including  
     Historical, National, and  
     Fancy Costume, Jewellery,  
     Rings, Regalia, Insignia]  
 506. Toilet  
 508. Domestic Servants, Duties, etc.
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- C. FINE AND RECREA-  
 TIVE ARTS, General**  
 2. Fine Art: History  
 4. Theory and Criticism  
 6. National Art, General  
 8. Ancient  
 10. Modern  
 12. Special Countries  
 14. Societies, Exhibitions  
 16. Periodicals  
 18. Painting. Societies  
 20. Periodicals  
 22. General  
 24. History, General  
 26. Theory and Criticism  
 28. Galleries and Collections  
 30. National Schools  
 32. Practice, General  
 34. Artistic Anatomy  
 36. Figure Painting  
 38. Portrait Painting  
 40. Miniature Painting  
 42. Landscape Painting  
 44. Marine Painting  
 46. Flower Painting  
 48. Oil Painting  
 50. Water-colour Painting  
 52. Glass and China  
 54. Special Varieties  
 56. Drawing, Freehand. General  
 58. Special  
 60. For Reproduction  
 62. Geometrical, General  
 64. Perspective, Model, Shadows  
 66. Technical, General  
 68. Machines, Trades  
 70. Decoration. Societies  
 72. Periodicals  
 74. General  
 76. Practice and Examples,  
     General  
 78. Special  
 80. Alphabets, Monograms  
 82. Illumination  
 84. Applied to Arts and Crafts,  
     General  
 86. Ceramics and Glass,  
     General  
 88. Special  
 90. Leather  
 92. Metal-work, General  
 94. Special  
 96. Textiles, General  
 98. Special  
 100. Wood-work, General  
 102. Special



- C 104. Engraving. Societies**  
 106. Periodicals  
 108. General  
 110. History, General  
 112. Special  
 114. Practice, General  
 116. Special  
 118. Collected Examples  
 120. Etching. Societies  
 122. Periodicals  
 124. General  
 126. Special  
 128. Collected Examples  
 130. Lithography. Periodicals  
     cals  
 132. General  
 134. Special  
 136. Collected Examples  
 138. Process Work, General  
 140. Special  
 142. Photography. Societies  
 144. Periodicals  
 146. General  
 148. Scientific  
 150. Artistic  
 152. Processes and Printing  
 154. Collected Examples  
 156. Writing, General  
 158. History  
 160. Special Treatises  
 162. Shorthand. Periodicals  
 164. General  
 166. Special  
 168. Collecting, Art Objects,  
     General  
 170. Autographs  
 172. Book Plates  
 174. Crests  
 176. Postmarks  
 178. Prints [other than C 118]  
 180. Stamps. Societies  
 182. Periodicals  
 184. General  
 186. Special
- 188. Architecture. Societies**  
 190. Periodicals  
 192. History, General  
 194. Special  
 196. Theory and Criticism  
 198. Practice, General  
 200. Ancient, General  
 202. Special  
 204. Modern, General  
 206. Special  
 208. Ecclesiastical Buildings  
 210. State and Municipal Build-  
     ings  
 212. Hospitals and Schools  
 214. Theatres  
 216. Farms, Mills, etc.  
 218. Residential Buildings  
 220. Military  
 222. Drawing and Design  
 224. Ornament, General  
 226. Special  
 228. Antiquities, General  
 230. Ecclesiology  
 232. Monumental Brasses  
 234. Crosses, Streets  
 236. Special  
 238. Sculpture, General  
 240. History, General  
 242. Special  
 244. Practice, General  
 246. Special  
 248. Carving and Modelling  
 250. Bronzes, Monuments,  
     etc.  
 252. Music. Societies  
 254. Periodicals  
 256. General  
 258. Criticism, Æsthetics  
 260. History, General  
 262. Special  
 264. Scientific Basis  
 266. Nomenclature  
 268. Elements, General  
 270. Special

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| <b>C</b> 272. Tonic Sol-fa, General                                                       | 344. Harmonium. Instruction                |
| 274. Special                                                                              | 346. Music                                 |
| 276. Other Notations                                                                      | 348. Harp. Instruction                     |
| 278. Harmony                                                                              | 350. Music                                 |
| 280. Counterpoint and Fugue                                                               | 352. Harpsichord. Instruction              |
| 282. Composition and Form                                                                 | 354. Music                                 |
| 284. Instrumentation (Orchestras<br>and Bands). Periodicals                               | 356. Lute. Instruction                     |
| 286. General Text-books                                                                   | 358. Music                                 |
| 288. Instruments, General, History,<br>etc.                                               | 360. Mandoline. Instruction                |
| 290. Orchestral Music [Full Scores<br>of Symphonies, Overtures,<br>String Quartets, etc.] | 362. Music                                 |
| <b>Instruments, Individual:</b>                                                           | 364. Oboe. Instruction                     |
| 292. American or Reed Organ.<br>Instruction                                               | 366. Music                                 |
| 294. Music                                                                                | 368. Ophicleide                            |
| 296. Bagpipe. Instruction                                                                 | 370. Organ. Periodicals and So-<br>cieties |
| 298. Music                                                                                | 372. General                               |
| 300. Banjo. Instruction                                                                   | 374. History                               |
| 302. Music                                                                                | 376. Instruction                           |
| 304. Bassoon. Instruction                                                                 | 378. Music                                 |
| 306. Music                                                                                | 380. Pianoforte. Periodicals               |
| 308. Bombardon                                                                            | 382. General                               |
| 310. Bugle                                                                                | 384. History                               |
| 312. Clarinet. Instruction                                                                | 386. Instruction                           |
| 314. Music                                                                                | 388. Music                                 |
| 316. Concertina, Accordion, Melo-<br>deon. Instruction                                    | 390. Saxophone                             |
| 318. Music                                                                                | 392. Serpent                               |
| 320. Cornet. Instruction                                                                  | 394. Trombone. Instruction                 |
| 322. Music                                                                                | 396. Music                                 |
| 324. Double Bass. Instruction                                                             | 398. Trumpet. Instruction                  |
| 326. Music                                                                                | 400. Music                                 |
| 328. Euphonium                                                                            | 402. Tuba                                  |
| 330. Flageolet                                                                            | 404. Viola. Instruction                    |
| 332. Flute, Fife, Piccolo. Instruction                                                    | 406. Music                                 |
| 334. Music                                                                                | 408. Violin. Periodicals                   |
| 336. French Horn. Instruction                                                             | 410. General                               |
| 338. Music                                                                                | 412. History                               |
| 340. Guitar. Instruction                                                                  | 414. Instruction                           |
| 342. Music                                                                                | 416. Music                                 |
|                                                                                           | 418. Violoncello. Instruction              |
|                                                                                           | 420. Music                                 |
|                                                                                           | 422. Zither                                |
|                                                                                           | 424. Other Instruments                     |
|                                                                                           | 426. Vocal Practice, General               |
|                                                                                           | 428. Special                               |

- O** 430. Singing, General  
 432. Special  
 434. Choir Training, Choral Societies  
 436. Operas and Dramatic Music  
 438. Oratorios  
 440. Cantatas  
 442. Church Music. Periodicals  
 444. General  
 446. Services  
 448. Masses  
 450. Anthems  
 452. Psalmody, General  
 454. Denominational  
 456. Hymns, General  
 458. Denominational  
 460. Chants and Chanting  
 462. Carols  
 464. Part Music, General  
 466. Glee and Madrigals  
 468. Part Songs  
 470. Rounds and Catches  
 472. Trios and Duets  
 474. Songs. Periodicals  
 476. General  
 478. National  
 480. Sacred  
 482. Comic  
 484. Nursery Songs  
 486. Special  
 488. Individual Composers  
 490. Recreative Arts, General  
 492. History  
     **Games and Sports, Individual:**  
 494. Periodicals, General  
 496. Angling. Periodicals  
 498. General  
 500. Special  
 502. Archery  
 504. Athletics. Periodicals  
 506. General  
 508. Running  
 510. Walking  
 512. Athletics, Special  
 514. Backgammon  
 516. Baseball, Rounders  
 518. Billiards, Bagatelle  
 520. Boating. Periodicals  
 522. General  
 524. Special  
 526. Bowling  
 528. Boxing (Prize-fighting), General  
 530. Special  
 532. Camping-out  
 534. Card Games, General  
 536. Whist  
 538. Écarté  
 540. Others  
 550. Chess. Periodicals  
 552. General  
 554. Special  
 556. Cock-fighting, Bull-baiting, etc.  
 558. Conjuring  
 560. Coursing, Harriers  
 562. Cricket. Periodicals  
 564. General  
 566. Special  
 568. Croquet  
 570. Curling  
 572. Cycling. Periodicals  
 574. General  
 576. Special  
 578. Dancing, General  
 580. Special  
 582. Dice  
 584. Dominoes  
 586. Draughts or Checkers  
 588. Driving  
 590. Fencing, General  
 592. Special  
 594. Football, General  
 596. Special  
 598. Golf  
 600. Gymnastics, Acrobats  
 602. Hawking  
 604. Hockey or Shinty (Hurling)  
 606. Horse-racing. Periodicals

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| <p><b>C</b></p> <p>608. Horse-racing, General</p> <p>610. Special</p> <p>612. Hunting, General</p> <p>614. Special</p> <p>616. Lacrosse</p> <p>618. Mountaineering</p> <p>620. Polo</p> <p>622. Puzzles, Riddles, Conundrums</p> <p>624. Quoits</p> <p>628. Racquets</p> <p>628. Riding, Horsemanship</p> <p>630. Shooting, General</p> <p>632. Special</p> <p>634. Skating and Rinking, General</p> <p>636. Special</p> <p>638. Skittles</p> <p>640. Solitaire</p> <p>642. Swimming, General</p> <p>644. Special</p> <p>646. Tennis</p> <p>648. Theatricals, Private</p> <p>650. Charades, etc.</p> <p>652. Wrestling</p> <p>654. Yachting, General</p> <p>656. Special</p> <p>658. Other Amusements</p> | <p>24. Women, General</p> <p>26. Special</p> <p>28. Sex Questions</p> <p>30. Population, General</p> <p>32. Special</p> <p>34. Vital Statistics</p> <p>36. Temperance Question. So-</p> <p style="padding-left: 2em;">cieties</p> <p>38. Periodicals</p> <p>40. General</p> <p>42. Special</p> <p>44. Emigration, General</p> <p>46. Special</p> <p>48. Pauperism</p> <p>50. Charities. Societies and Perio-</p> <p style="padding-left: 2em;">dicals</p> <p>52. General</p> <p>54. Special</p> <p>56. Slavery, General</p> <p>58. Special</p> <p>60. Juvenile Delinquency</p> <p>62. Crime and Punishment</p> <p>64. Capital Punishment</p> <p>66. Police, General</p> <p>68. Special</p> <p>70. Prisons, General</p> <p>72. Special</p> <p>74. Secret Societies, General</p> <p>76. Special</p> <p>78. Socialism, General</p> <p>80. Special</p> <p>82. Communism, Anarchy, Nihi-</p> <p style="padding-left: 2em;">lism, etc.</p> <p>84. Other Social Organisations</p> <p>86. Freemasonry. Societies</p> <p>88. Periodicals</p> <p>90. General</p> <p>92. Special</p> <p>94. Political Economy, Gene-</p> <p style="padding-left: 2em;">ral</p> <p>96. Societies</p> <p>98. Periodicals.</p> <p>100. Theories</p> <p>102. Labour Questions, General</p> |
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- D. SOCIAL SCIENCE,**  
**General**
- |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>2. Societies</p> <p>4. Periodicals</p> <p>6. History of Sociology</p> <p>8. Theories</p> <p>10. Manners and Customs,<br/>                 General</p> <p>12. National</p> <p>14. Games</p> <p>16. Special</p> <p>18. Marriage, General</p> <p>20. Special</p> <p>22. Women. Societies and Perio-</p> <p style="padding-left: 2em;">dicals</p> | <p>24. Women, General</p> <p>26. Special</p> <p>28. Sex Questions</p> <p>30. Population, General</p> <p>32. Special</p> <p>34. Vital Statistics</p> <p>36. Temperance Question. So-</p> <p style="padding-left: 2em;">cieties</p> <p>38. Periodicals</p> <p>40. General</p> <p>42. Special</p> <p>44. Emigration, General</p> <p>46. Special</p> <p>48. Pauperism</p> <p>50. Charities. Societies and Perio-</p> <p style="padding-left: 2em;">dicals</p> <p>52. General</p> <p>54. Special</p> <p>56. Slavery, General</p> <p>58. Special</p> <p>60. Juvenile Delinquency</p> <p>62. Crime and Punishment</p> <p>64. Capital Punishment</p> <p>66. Police, General</p> <p>68. Special</p> <p>70. Prisons, General</p> <p>72. Special</p> <p>74. Secret Societies, General</p> <p>76. Special</p> <p>78. Socialism, General</p> <p>80. Special</p> <p>82. Communism, Anarchy, Nihi-</p> <p style="padding-left: 2em;">lism, etc.</p> <p>84. Other Social Organisations</p> <p>86. Freemasonry. Societies</p> <p>88. Periodicals</p> <p>90. General</p> <p>92. Special</p> <p>94. Political Economy, Gene-</p> <p style="padding-left: 2em;">ral</p> <p>96. Societies</p> <p>98. Periodicals.</p> <p>100. Theories</p> <p>102. Labour Questions, General</p> |
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- D** 104. Capital and Labour  
 106. Factory System  
 108. Trades Unions. Societies and Periodicals  
 110. General  
 112. Special  
 114. Wages Questions  
 116. Profit Sharing  
 118. Hours Question  
 120. Co-operation. Societies and Periodicals  
 122. General  
 124. Special  
 126. Friendly Societies  
 128. Periodicals  
 130. General  
 132. Special  
 134. Land Laws  
 136. Nationalisation  
 138. Tenures, Transfers, Rent  
 140. Allotments and Commons  
 142. Mining Royalties  
 144. Free Trade. Societies and Periodicals  
 146. General  
 148. Special  
 150. Protection, Tariffs, etc.  
 152. Government and Politics, General  
 154. Constitutional History, General  
 156. British  
 158. Other Nationalities  
 160. Law, General  
 162. British  
 164. Other Nations  
 166. Theories, General  
 168. Special  
 170. Monarchy  
 172. Democracy  
 174. Other Forms of Government  
 176. Science of Politics  
 178. Political Parties, General  
 180. Special  
 182. National  
 184. Public Meetings, Procedure  
 186. Civil Liberty, Citizenship  
 188. National Character, General  
 190. State Administration, General  
 192. British, General  
 194. Crown, Privileges, etc.  
 196. Parliament, General  
 198. House of Lords, Powers, Duties, etc.  
 200. Reform  
 202. Papers and Proceedings  
 204. History  
 206. House of Commons, Constitution  
 208. Laws and Procedure  
 210. History  
 212. Papers, Reports, Proceedings  
 214. Statutes  
 216. Journals  
 218. Debates  
 220. Reform  
 222. Elections  
 224. Suffrage  
 226. Government Departments  
 228. Foreign Policy, Treaties, Diplomats  
 230. Taxation  
 232. Other Questions  
 234. United States, General  
 236. Special  
 238. France  
 240. Germany  
 242. Other Countries  
 244. Local Administration, General  
 246. Britain, General  
 248. Special (Local Rating, etc.)  
 250. England, General  
 252. Special (Counties, Parishes, Municipalities, etc.)  
 254. Scotland, General  
 256. Special  
 258. Ireland, General  
 260. Special

- D** 262. Local Administration, Wales, General  
 264. Special  
 266. United States  
 268. Other Nations  
 270. Church Establishments, General  
 272. Disestablishment  
 274. Law (Jurisprudence), General  
 276. Societies  
 278. Periodicals  
 280. Reports of Cases  
 282. History  
 284. Philosophy  
 286. Theories  
 288. National, General  
 290. British  
 292. English (Codes, Commentaries, etc., General)  
 294. Scottish (Codes, Commentaries, etc., General)  
 296. Irish (Codes, Commentaries, etc., General)  
 298. Welsh (Codes, Commentaries, etc., General)  
 300. Colonies (Codes, Commentaries, etc., General)  
 302. India (Codes, Commentaries, etc., General)  
 304. United States  
 306. France  
 308. Germany  
 310. Other Countries  
 312. Roman  
 314. International  
 316. Common (British)  
 318. Commercial and Maritime  
 320. Poor  
 322. Military  
 324. Canon  
 326. Criminal  
 328-348 Special Subjects (Patents, Property, etc., as represented)  
 350. Court Procedure and Practice  
 352. Trials, General  
 354. Special  
 356. Commerce and Industry, General  
 358. Societies  
 360. Periodicals  
 362. History  
 364. Guilds  
 366. Finance, Public  
 368. National Debt  
 370. Prices  
 372. Exchange  
 374. Cambistry  
 376. Speculation and Stocks, General  
 378. Periodicals  
 380. Money and Credit  
 382. Bimetallism  
 384. Banking. Societies and Periodicals  
 386. General  
 388. Special  
 390. Insurance. Societies and Periodicals  
 392. General  
 394. Life  
 396. Thrift and Saving  
 398. Pensions, Old Age, etc.  
 400. Communications, General  
 402. Special  
 404. Post Office. Periodicals  
 406. General  
 408. Special  
 410. Telegraphs  
 412. Industrial and Commercial Undertakings  
 414. Business Methods, General  
 416. Indexing and Précis  
 418. Commercial Correspondence  
 420. Advertising  
 422. Typewriting  
 424. Other Departments  
 426. Education, General

- D**
- 428. Societies
  - 430. Periodicals
  - 432. History, General
  - 434. Special
  - 436. Theories and Systems
  - 438. School Management, General
  - 440. Teachers
  - 442. Hygiene
  - 444. Buildings and Fittings
  - 446. Methods of Instruction. Self-culture
  - 448. Home
  - 450. Kindergarten
  - 452. Primary
  - 454. Special Subjects
  - 456. Technical and Manual
  - 458. Ragged Schools
  - 460. Reformatory and Industrial Schools
  - 462. Blind
  - 464. Deaf and Dumb
  - 466. Other
  - 468. Colleges and Universities, General
  - 470. Societies and Periodicals
  - 472. History, General
  - 474. Special
  - 476. University Organisation and Teaching
  - 478. Calendars and Year Books
  - 480. Degrees
  - 482. Theological Colleges
  - 484. Other Colleges
- 
- E. PHILOSOPHY AND RELIGION, General**
- 2. Philosophy. Societies
  - 4. Periodicals
  - 6. History, General
  - 8. Ancient
  - 10. Modern
  - 12. Ancient Systems or Schools, General
  - 14. Special
  - 16. Modern Systems or Schools, General
  - 18. Special, by Authors as represented
  - 20. Logic, General
  - 22. Special
  - 24. Metaphysics
  - 26. Mental Physiology, General
  - 28. Sleep and Dreams
  - 30. Memory, Mnemonics
  - 32. Phrenology
  - 34. Physiognomy
  - 36. Psychology
  - 38. Ethics, General
  - 40. Special (Amusements, etc.)
  - 42. Religion, General
  - 44. Theology, General
  - 46. Natural, General
  - 48. Special
  - 50. Theism
  - 52. Atheism and Deism
  - 54. Science and Religion
  - 56. Philosophy of Religion
  - 58. Systematic Theology, General
  - 60. History of Doctrine
  - 62. Creeds
  - 64. Eschatology. Future State
  - 66. Special Treatises
  - 68. Pastoral Theology, General
  - 70. Clerical Profession
  - 72. Homiletics
  - 74. Sermons
  - 76. Missions, General
  - 78. Comparative Religion, General
  - 80. Special
  - 82. Bible, Texts, Polyglot
  - 84. Hebrew
  - 86. Greek
  - 88. Latin

- E** 90-108. English [Wycliffe, Tyndal, Coverdale, Matthew, Taverner, Cranmer, Geneva, Bishops', Rheims, Douay]
110. Authorised Versions, 1611, etc.
112. Revised Versions, 1885
114. French
116. German
118. Dutch
120. Italian
122. Other European Versions
124. Oriental Versions
126. African Versions
128. American and Polynesian Versions
130. Old Testament, Separate Texts, Whole or Part
132. New Testament, Separate Texts, Whole or Part
134. Apocrypha, Separate Texts
136. Aids, Geography, Natural History
138. Dictionaries
140. Concordances
142. Commentaries, Complete Bible
144. Old Testament, Whole
146. Separate Books
148. New Testament, Whole
150. Separate Books
152. Apocrypha
154. Fathers (Patristics), General
156. Collections
158. Individual
160. Councils, General
162. Special
164. Religious Beliefs and Systems, General
166. Dictionaries of Faiths, Sects, etc.
168. Lives of Christ
170. Christianity, General
172. Philosophy
174. Ethics
176. History, General
178. Christian Evidences
180. Christian Churches, General (Doctrine, etc.)
182. Eastern and Greek, General
184. Special
186. Roman Catholic, General (Ritual, Doctrine, etc.)
188. National
190. Monastic and Religious Orders
192. Inquisition
194. Confession
196. Church Polity
198. Reformation, Controversial Works
200. Protestantism, General
202. Special
204. Lutheran Church
206. Calvinism
208. Episcopalianism, English, General
210. Creed and Doctrine
212. Church Polity
214. Liturgies
216. Hymnology
218. Scotch
220. United States
222. Sects and Heresies
224. Presbyterianism, English
226. Scottish
228. Other
230. Sects and Heresies
232. Polity
234. Liturgies
236. Hymnology
238. Congregationalism, General
240. Special
242. Polity
244. Liturgies and Hymnology
246. Methodism, General
248. Special
250. Polity
252. Liturgies



- E 254.** Methodism, Hymnology  
**256.** Baptists, General  
**258.** Special  
**260.** Polity  
**262.** Liturgies and Hymnology  
**264.** Friends, Society of (Quakers),  
     General  
**266.** Special  
**268.** Polity  
**270.** Liturgies and Hymnology  
**272.** Reformed (Dutch) Church  
**274.** Moravians  
**278.** Swedenborgians  
**280.** Unitarians  
**282.** Mormons  
**284.** Other Christian Sects  
**286.** **Christian Theology,**  
     General  
**288.** Trinity  
**290.** Lord's Prayer  
**292.** Sacraments, Lord's Supper  
**294.** Baptism  
**296.** Atonement  
**298.** Faith  
**300.** Justification  
**302.** Sanctification  
**304.** Predestination  
**306.** Free Will  
**308.** Judgment  
**310.** Heaven, Angels  
**312.** Hell, Devil  
**314.** Other Topics  
**316.** Collected Sermons  
**318.** Sermons of Individuals  
**320-384.** Reserved  
**386.** **Non-Christian Reli-**  
     **gions, General**  
**388.** Ancient Religions: Egyptian,  
     Chaldaean, etc.  
**390.** Judaism, General  
**392.** Special  
**394.** Sacred Books  
**396.** Doctrine and Worship  
**398.** Brahminism, General  
**400.** Special  
**402.** Doctrine and Worship  
**404.** Buddhism, General  
**406.** Special  
**408.** Sacred Books  
**410.** Doctrine and Worship  
**412.** Confucianism, General  
**414.** Special  
**416.** Sacred Books  
**418.** Mahometanism, General  
**420.** Special  
**422.** Sacred Books  
**424.** Parsism and Zoroastrianism,  
     General  
**426.** Special  
**428.** Other Oriental Religions  
**430.** African Religions  
**432.** Polynesian Religions  
**434.** Other Ethnic Religions  
**436.** Agnosticism  
**438.** Positivism, Materialism  
**440.** Rationalism  
**442.** Other Beliefs  
**444.** **Mythology and Folk-**  
     **Lore, General**  
**446.** Societies  
**448.** Periodicals  
**450.** Philosophy and Theory  
**452.** Comparative  
**454.** National  
**456.** Demonology  
**458.** Witchcraft  
**460.** Fairies, Elves, etc.  
**462.** Phallic and Serpent Worship  
**464.** Divination, Fortune Telling,  
     Second Sight, Palmistry  
**466.** Spiritualism  
**468.** Monsters: Dragons, Giants  
**470.** Other Departments

- F. HISTORY AND GEOGRAPHY, General**
- 2. Historical Societies
  - 4. Historical Periodicals
  - 6. General, and Archæology (Ancient)
  - 8. Chronology
  - 10. Numismatics (Coins, Medals, Seals), General
  - 12. National
  - 14. Special
  - 16. Societies and Periodicals
  - 18. Military History, General
  - 20. Naval History, General
  - 22. Ecclesiastical History, General
  - 24. Crusades and Chivalry
  - 26. Philosophy and Study of History. Civilisation
  - 28. **Ancient and Dispersed Nations, General**
  - 30. Phœnicia
  - 32. Judæa
  - 34. Modern Jews, General
  - 36. Societies
  - 38. Periodicals
  - 40. Special
  - 42. Medo-Persia, General
  - 44. Chaldæa
  - 46. Assyria
  - 48. Babylonia
  - 50. Media
  - 52. Lydia
  - 54. Persia
  - 56. Other Divisions
  - 58. Minor Nationalities: Carthage, etc.
  - 60. Gipsies, General
  - 62. Special
  - 64. **Modern History and Archæology, General**
  - 66. Special
  - 68. **Geography, General**
  - 70. Societies
  - 72. Periodicals
  - 74. Historical Atlases
  - 76. Geographical Atlases
  - 78. Gazetteers and Dictionaries
  - 80. Ancient and Classical Geography
  - 82. Modern Political Geography
  - 84. Voyages and Travels [Circumnavigation and two or more large areas], General Collections
  - 86. Individual Travellers (alphabetically)
  - 88. **AFRICA, General** [Travels, Atlases, etc.]
  - 90. **North Africa, General**
  - 92. Egypt, Ancient, General
  - 94. History
  - 96. Church
  - 98. Geography
  - 100. Modern, General
  - 102. History
  - 104. Geography
  - 106. Nubia
  - 108. Abyssinia
  - 110. Somaliland
  - 112. Barbary States, General
  - 114. Tripoli
  - 116. Algeria
  - 118. Tunis
  - 120. Morocco
  - 122. Soudan, East
  - 124. Sahara
  - 126. **Central, General**
  - 128. British East Africa (Ibea)
  - 130. German East Africa
  - 132. Congo Free State
  - 134. French Congo
  - 136. Angola
  - 138. British Central Africa
  - 140. Portuguese East Africa
  - 142. **West, General**
  - 144. Ashanti
  - 146. Cameroons
  - 148. Dahomey

150. French Guinea  
 152. Gold Coast  
 154. Guinea Coast  
 156. Liberia  
 158. Senegambia  
 160. Sierra Leone  
 162. Sokoto  
 164. West Soudan  
 166. South, General, History  
 168. Geography  
 170. Cape Colony  
 172. Natal and Zululand  
 174. Orange Free State  
 176. South African Republic  
     (Transvaal)  
 178. German South-West Africa  
 180. British South Africa  
 182. Bechuanaland and Other  
     Territories  
 184. African Islands, General  
 186. Socotra, Seychelles  
 188. Zanzibar  
 190. Madagascar  
 192. Mauritius  
 194. St. Helena, Ascension  
 196. Cape Verde Islands: Canary  
     Islands, Madeira  
 198. AMERICA (N. and S.),  
     General  
 200. History  
 202. Geography  
 204. North, General  
 206. History  
 208. Geography  
 210. Canada, General  
 212. History, Civil and Church,  
     General  
 214. Geography, General  
 216. Social State, General  
 218. Nova Scotia, History  
 220. Geography  
 222. Prince Edward Island  
 224. New Brunswick  
 226. Quebec, History  
 228. Quebec, Geography  
 230. Ontario, History  
 232. Geography  
 234. Manitoba  
 236. British Columbia  
 238. North-West Territories  
 240. Newfoundland, History  
 242. Geography  
 244. Labrador  
 246. United States, General  
 248. History, Civil, General  
 250. Church  
 252. Military and Naval, General  
 254. Pre-Republican  
 256. Republican  
 258. Civil War, General  
 260. Confederate View  
 262. Federal View  
 264. Geography, General  
 266. Social State, General  
 268. States and Territories: His-  
     tory and Geography,  
     General Divisions  
     270. Alabama; 272. Alaska;  
     274. Arizona; 276. Arkansas;  
     278. California; 280. Colorado;  
     282. Connecticut; 284. Dela-  
     ware; 286. District of Colum-  
     bia; 288. Florida; 290. Georgia;  
     292. Idaho; 294. Illinois; 296.  
     Indian Territory; 298. Indiana;  
     300. Iowa; 302. Kansas; 304.  
     Kentucky; 306. Louisiana;  
     308. Maine; 310. Maryland;  
     312. Massachusetts; 314.  
     Michigan; 316. Minnesota;  
     318. Mississippi; 320.  
     Missouri; 322. Montana; 324.  
     Nebraska; 326. Nevada; 328.  
     New Hampshire; 330. New  
     Jersey; 332. New Mexico;  
     334. New York; 336. North  
     Carolina; 338. North Dakota;  
     340. Ohio; 342. Oklahoma;

- F** 344. Oregon; 346. Pennsylvania; 348. Rhode Island; 350. South Carolina; 352. South Dakota; 354. Tennessee; 356. Texas; 358. Utah; 360. Vermont; 362. Virginia; 364. Washington; 366. West Virginia; 368. Wisconsin; 370. Wyoming
372. Mexico, General
374. History, Ancient
376. Modern
378. Geography
380. Central America and West Indian Islands, General
382. Central America, History
384. Geography
386. British Honduras
388. Costa Rica
390. Guatemala
392. Honduras
394. Nicaragua
396. San Salvador
398. West Indies, General
400. History
402. Geography
404. Bahamas and Bermudas
406. Cuba
408. Jamaica
410. Hayti and San Domingo
412. Porto Rico
414. Lesser Antilles (St. Thomas, Barbadoes, Trinidad, etc.)
416. Leeward Islands (Curaçao, etc.)
418. South America, General
420. History
422. Geography
424. Argentina (including Patagonia)
426. Bolivia
428. Brazil
430. Chili
432. Colombia
434. Ecuador
436. Guianas, General
438. British
440. Dutch
442. French
444. Paraguay
446. Peru
448. Uruguay
450. Venezuela
452. Falkland Islands
454. ASIA, General
456. Afghanistan
458. Arabia, History (Saracens or Moors, etc.)
460. Geography
462. Baluchistan
464. Ceylon
466. Chinese Empire, General
468. History, General
470. Geography, General
472. Mongolia
474. Tibet
476. Korea
478. Social State
480. India, General
482. Ancient History
484. Modern History, General
486. Mutiny
488. Geography, General
490. Special
492. Farther India, General
494. Burma
496. Siam
498. Annam and Tonkin
500. Malay Peninsula
502. Andaman and Nicobar Islands
504. Japan, General
508. History
508. Geography
510. Formosa
512. Social State
514. Persia, General
516. Modern History
518. Geography
520. Social State

- F** 522. Russia (Siberia, etc.), General  
 524. History  
 526. Geography  
 528. Social State  
 530. Turkey, General  
 532. History  
 534. Geography, General  
 536. Social State  
 538. Armenia  
 540. Palestine  
 542. Sinai  
 544. Asia Minor and Levant, General  
 546. Malay Archipelago, General  
 548. Borneo  
 550. Celebes  
 552. Java  
 554. Moluccas  
 556. Philippines  
 558. Sumatra, Sunda Islands  
 560. EUROPE, General  
 562. History, Civil, General  
 564. Church and Reformation, General  
 566. Military and Naval, General  
 568. Dispersed and Merged Nations, General  
 570. Goths, Vandals, Huns, Franks, Gauls  
 572. Moors or Saracens  
 574. Bohemia  
 576. Poland  
 578. Geography, General  
 580. Atlases, Gazetteers, etc.  
 582. Social State, General  
 584. Austria-Hungary, General  
 586. Civil History  
 588. Church History  
 590. Military History  
 592. Geography, General  
 594. Bohemia  
 596. Bosnia and Herzegovina  
 598. Hungary  
 600. Geography, Transylvania  
 602. Other Divisions  
 604. Social State  
 606. Balkan States, General  
 608. History, General  
 610. Geography, General  
 612. Bulgaria  
 614. Montenegro  
 616. Roumania  
 618. Servia  
 620. Social State  
 622. British Islands, General  
 624. Societies  
 626. Periodicals  
 628. History and Archaeology, General  
 630. Civil, General  
 632. History, Church  
 634. Military History  
 638. Regimental Histories  
 638. Naval History  
 640. British Empire, General  
 642. History, General  
 644. Geography, General  
 646. Colonies, General  
 648. Polity, etc.  
 650. British Islands, Geography, General  
 652. Social State  
 654. England, General  
 658. History and Archaeology, General  
 658. Early Times  
 660. Anglo-Saxons  
 662. Normans  
 664-670. Later Periods (chronologically)  
 672. Church  
 674. Military  
 676. Naval  
 678. Social State  
 680. Geography, General  
 682. Borders and North England, General

- F 684.** Geography, Lake District, General
686. East England, General
688. West England, General
690. Midlands, General
692. South England, General
694. Thames, General
- Local History and Topography:
696. Bedford; 698. Berkshire; 700. Buckingham; 702. Cambridge; 704. Cheshire; 706. Cornwall (708. Scilly Isles); 710. Cumberland; 712. Derby; 714. Devon; 716. Dorset; 718. Durham; 720. Essex; 722. Gloucester; 724. Hampshire (726. Isle of Wight); 728. Hereford; 730. Hertford; 732. Huntingdon; 734. Kent; 736. Lancashire; 738. Leicester; 740. Lincoln; 742. London; 744. Middlesex; 746. Monmouth; 748. Norfolk; 750. Northampton; 752. Northumberland; 754. Nottingham; 756. Oxford; 758. Rutland; 760. Shropshire; 762. Somerset; 764. Stafford; 766. Suffolk; 768. Surrey; 770. Sussex; 772. Warwick; 774. Westmoreland; 776. Wiltshire; 778. Worcester; 780. York; 782. Isle of Man; 784. Channel Islands
786. Wales, General
788. History, Civil
790. Church
792. Social State
794. Geography, General
796. North Wales
798. South Wales
800. Anglesey; 802. Brecknock; 804. Cardigan; 806. Carmarthen; 808. Carnarvon; 810. Denbigh; 812. Flint; 814. Glamorgan; 816. Merioneth; 818. Montgomery; 820. Pembroke; 822. Radnor
824. Ireland, General
826. History, Civil
828. Church
830. Social State
832. Geography, General
834. Connaught; 836. Leinster; 838. Munster; 840. Ulster; 842. Antrim; 844. Armagh; 846. Carlow; 848. Cavan; 850. Clare; 852. Cork; 854. Donegal; 856. Down; 858. Dublin; 860. Fermanagh; 862. Galway; 864. Kerry; 866. Kildare; 868. Kilkenny; 870. King's County; 872. Leitrim; 874. Limerick; 876. Londonderry; 878. Longford; 880. Louth; 882. Mayo; 884. Meath; 886. Monaghan; 888. Queen's County; 890. Roscommon; 892. Sligo; 894. Tipperary; 896. Tyrone; 898. Waterford; 900. Westmeath; 902. Wexford; 904. Wicklow
906. Scotland, General
908. History, Civil
910. Church
912. Military and Clans
914. Social State
916. Geography, General
918. Borders; 920. Lowlands; 922. Galloway; 924. Hebrides; 926. Highlands; 928. Aberdeen; 930. Argyle; 932. Ayr; 934. Banff; 936. Berwick; 938. Bute; 940. Caithness; 942. Clackmannan; 944. Dumbarton; 946. Dum-

- fries; 948. Edinburgh; 950. Elgin or Moray; 952. Fife; 954. Forfar; 956. Haddington; 958. Inverness; 960. Kincardine; 962. Kinross; 964. Kirkcudbright; 966. Larnark; 968. Linlithgow; 970. Nairn; 972. Orkney; 974. Peebles; 976. Perth; 978. Renfrew; 980. Ross and Cromarty; 982. Roxburgh; 984. Selkirk; 986. Shetland; 988. Stirling; 990. Sutherland; 992. Wigtown
994. France, General
996. History, Civil, General
998. Great Revolution
1000. Church, General
1002. Huguenots
1001. Military and Naval
1006. Social State
1008. Geography, General
1010. Brittany; 1012. Normandy; 1014. Paris; 1016. Corsica; 1018. Other Districts
1020. Germany, General
1022. History, Civil
1024. Church
1026. Military and Naval
1028. Social State
1030. Geography, General
1032. Bavaria
1034. Prussia
1036. Saxony
1038. Other States
1040. Greece, Ancient, General
1042. History, General
1044. Athens; 1046. Corinth; 1048. Lacedæmonia; 1050. Macedonia; 1052. Other Divisions
1054. Geography, General
1056. Special
1058. Social State
1060. Modern, General
1062. History, General
1064. Byzantine Empire
1066. Church
1068. Geography, General
1070. Special
1072. Social State
1074. Italy, General
1076. History, Modern, General
1078. Church
1080. Military and Naval
1082. Social State
1084. Geography, General
1086. Lombardy
1088. Piedmont
1090. Venice
1092. Tuscany
1094. Rome
1096. Sicily
1098. Sardinia
1100. Other Divisions
1102. Rome, Ancient, General
1104. History, General
1106. Early History
1108. Republic
1110. Empire
1112. Eastern Empire
1114. Western Empire
1116. Geography, General
1118. Special
1120. Social State
1122. Netherlands, General
1124. History, General
1126. Geography, General
1128. Social State
1130. Belgium, General
1132. History, Civil
1134. Church
1136. Geography
1138. Holland, General
1140. History, Civil
1142. Church
1144. Geography
1146. Portugal, General

- F** 1148. History, Civil  
 1150. Church  
 1152. Social State  
 1154. Geography  
 1156. Azores  
 1158. Russia, General  
 1160. History, Civil  
 1162. Church  
 1164. Military  
 1166. Social State  
 1168. Geography, General  
 1170. Special  
 1172. Empire, General  
 1174. History  
 1176. Geography  
 1178. Scandinavia, General  
 1180. History, General  
 1182. Geography, General  
 1184. Social State  
 1186. Denmark, General  
 1188. History  
 1190. Geography  
 1192. Social State  
 1194. Iceland and Faroë Islands  
 1196. Danish Greenland  
 1198. Norway, General  
 1200. History  
 1202. Geography  
 1204. Social State  
 1206. Sweden, General  
 1208. History  
 1210. Geography  
 1212. Social State  
 1214. Spain, General  
 1216. History, Civil  
 1218. Church  
 1220. Military and Naval  
 1222. Geography  
 1224. Balearic Islands  
 1228. Social State  
 1228. Switzerland, General  
 1230. History, Civil  
 1232. Church  
 1234. Geography, General  
 1236. Geography, Alpine Books  
 1238. Social State  
 1240. Turkey, General  
 1242. Ottoman Empire, History  
 1244. Modern History  
 1246. Geography  
 1248. Social State  
 1250. Mediterranean, Shores  
     and Islands, General  
 1252. Gibraltar  
 1254. Malta  
 1256. Crete or Candia  
 1258. Cyprus  
 1260. Oceania, General  
 1262. Geography  
 1264. AUSTRALASIA, General  
 1266. History  
 1268. Geography  
 1270. Social State  
 1272. Australia, General  
 1274. History  
 1276. Geography  
 1278. Social State  
 1280. New South Wales,  
     General  
 1282. History  
 1284. Geography  
 1286. Queensland, General  
 1288. History  
 1290. Geography  
 1292. South Australia, General  
 1294. History  
 1296. Geography  
 1298. Victoria, General  
 1300. History  
 1302. Geography  
 1304. West Australia, General  
 1306. History  
 1308. Geography  
 1310. New Zealand, General  
 1312. History  
 1314. Geography  
 1316. Social State  
 1318. Tasmania, General



- F** 1320. History  
 1322. Geography  
 1324. Social State  
 1326. New Guinea, History  
 1328. Geography  
 1330. Solomon Islands  
 1332. Polynesia, General  
 1334. History  
 1336. Geography  
 1338. Fiji  
 1340. Hawaii or Sandwich Islands  
 1342. Pitcairn  
 1344. Marquesas  
 1346. Samoa  
 1348. Tahiti  
 1350. Other Islands  
 1352. **POLAR REGIONS,**  
       General  
 1354. Antarctic  
 1356. Arctic, General  
 1358. North European  
 1360. American, Eskimos  
 1362. Asian  
 1364. Franklin Searches
- 
- G. BIOGRAPHY AND  
 CORRESPOND-  
 ENCE, General, Col-  
 lective**
2. Periodicals and Societies  
 4. National, Collective, Ameri-  
    can  
 6. British  
 8. English  
 10. Irish  
 12. Scottish  
 14. Welsh  
 16. French  
 18. German  
 20. Greek  
 22. Italian
24. Roman  
 26. Spanish  
 28. Other Nationalities  
 30. Class, Collective, Actors and  
    Entertainers  
 32. Artists  
 34. Authors  
 36. Bible Characters  
 38. Clergy  
 40. Criminals : Robbers, Pirates,  
    etc.  
 42. Eccentrics : Misers, Fools,  
    Jesters, Characters, etc.  
 44. Educationists  
 46. Engineers  
 48. Industrial and Commercial  
 50. Legal  
 52. Medical  
 54. Military  
 56. Missionaries  
 58. Monarchs  
 60. Musicians  
 62. Naval  
 64. Nobility  
 66. Philanthropists  
 68. Philosophers  
 70. Politicians and Statesmen  
 72. Popes  
 74. Religion  
 76. Saints and Martyrs  
 78. Scientists  
 80. Sportsmen  
 82. Travellers, Geographers, An-  
    tiquaries  
 84. Women  
 86. Other Classes  
 88. Individual Biography and  
    Criticism (alphabetically  
    arranged)  
 90. Genealogy and Family His-  
    tory, General  
 92. Societies and Periodicals  
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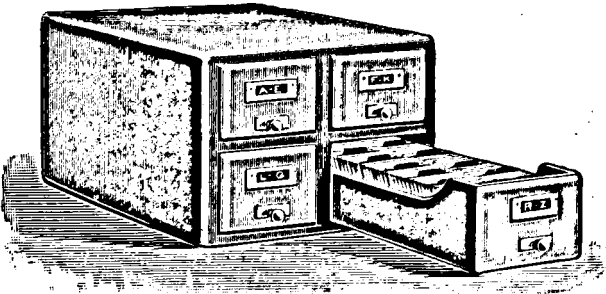
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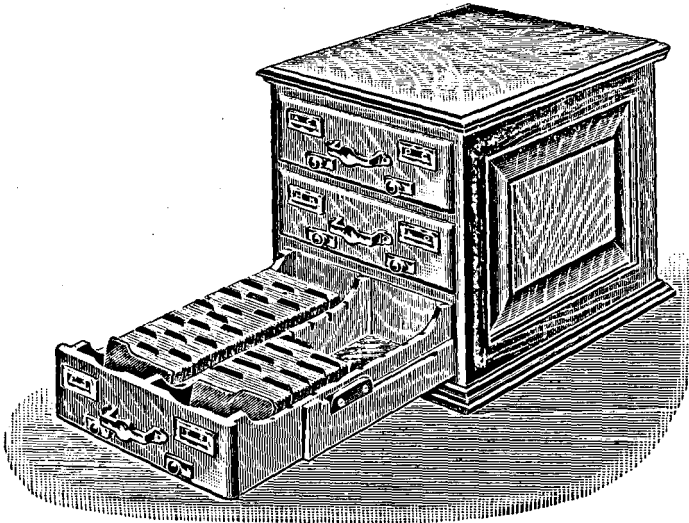
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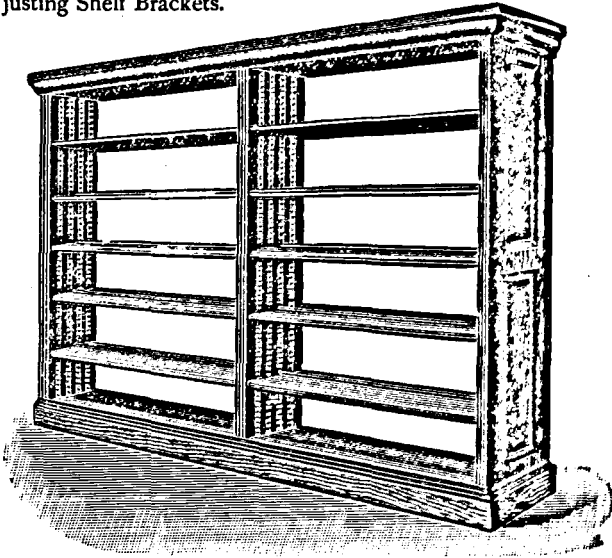
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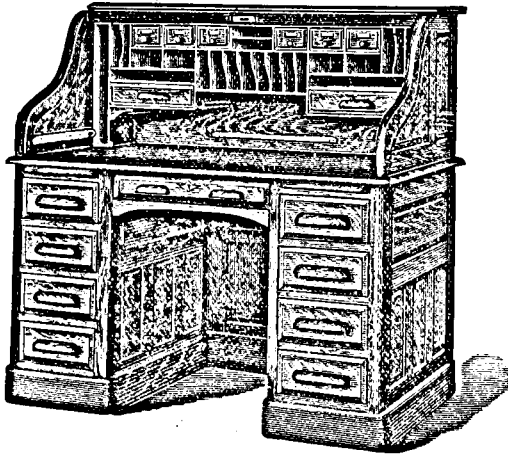
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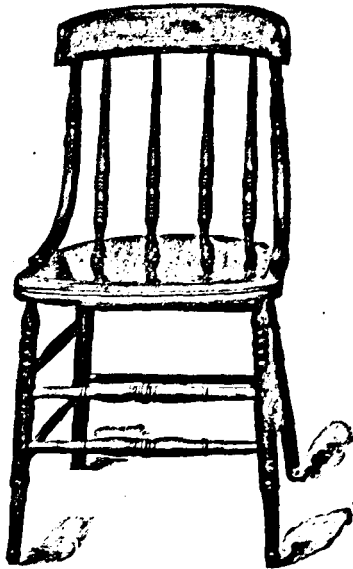
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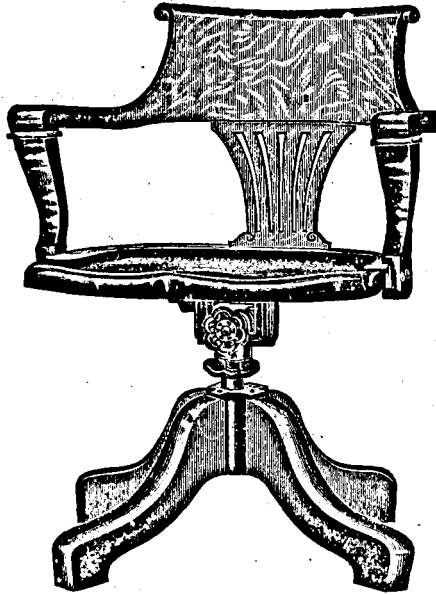
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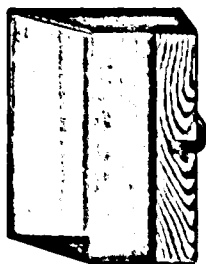
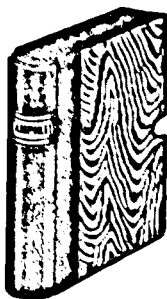
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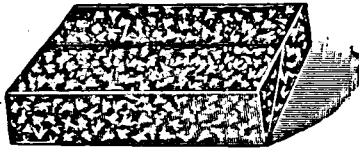
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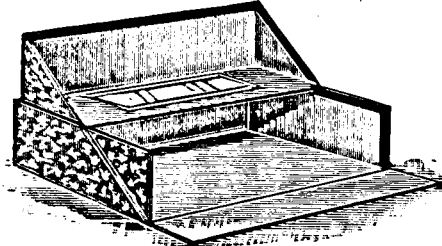
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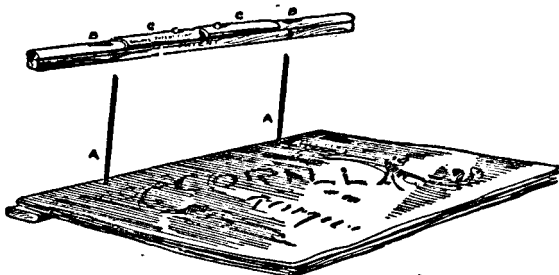
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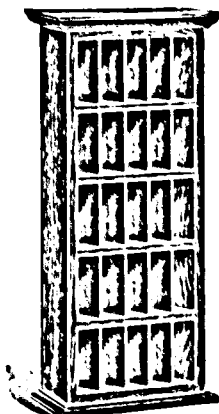
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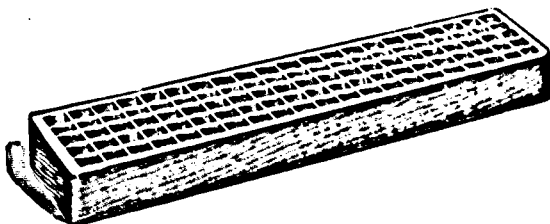
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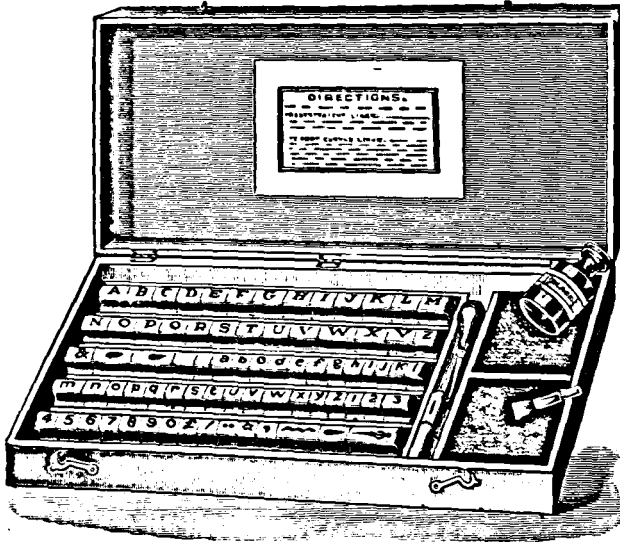
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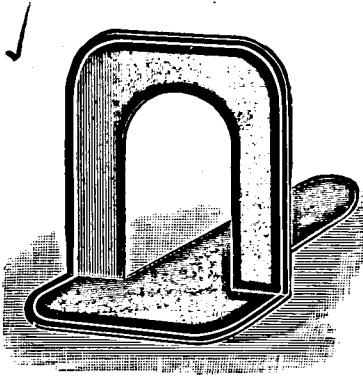
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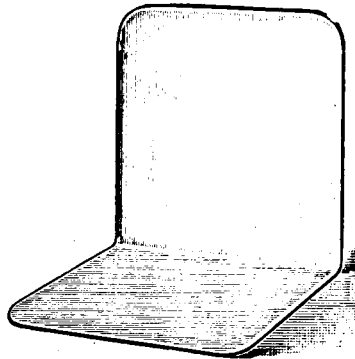
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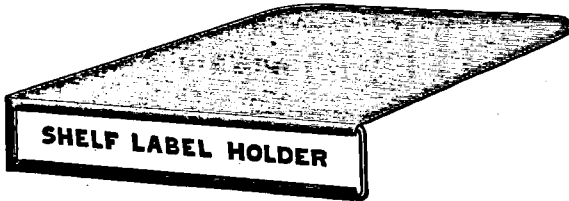
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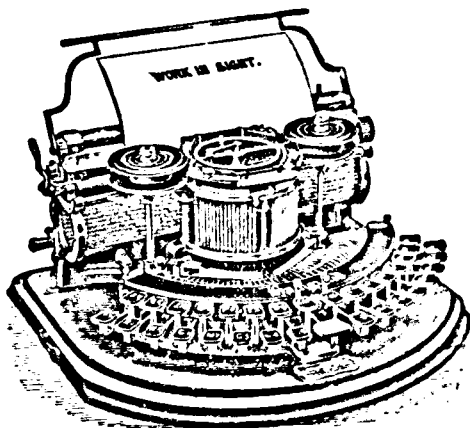
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