A GUIDE TO
Woodworking Projects
A Companion Volume to
A Guide to the Study of Woodworking

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PREFACE

In presenting this book to the teachers of woodworking as a companion volume to *A Guide to the Study of Woodworking*, it seems fitting to consider, in the outset, an explanation of the apparent differences in policy regarding the references in these two books.

In *A Guide to the Study of Woodworking*, it was the author's aim to make reference only to a few of the best books dealing with tools, processes, and materials. In the present work it seems best to list practically every American publication now in print which deals wholly or in part with woodworking projects. After making an extended study of the woodworking books of this country it appears to the writer that considerations of tools, processes, and materials are rather standard throughout these publications. On the other hand, while there is some similarity in projects found in the various books, a large variety of distinctly original designs may be noted, even in books that might generally be considered entirely out of date. Too, there are many projects from Acrobats to Zither that are described in only one book, most of which have considerable merit as projects for school use.

In *A Guide to the Study of Woodworking* many references were starred when considered to be especially valuable. This practice has seemed impractical in the present volume because of the large number of projects and because the educational value of many projects is dependent upon local conditions, student individuality, and other such factors, whereas the value of treatises of tool processes, tools, and materials is affected very little by such things as the geographical location of the reader.

In considering the teacher's problems of instruction, we should note that modern education does not demand so much that we become mere store-houses of information, as it does
that we learn how to locate information when wanted for a given situation. The author's purpose in this series of guides is to offer a systematic means of organizing information so that it can be found quickly when wanted, and that pupils may be taught to search for knowledge in a systematic manner. The appreciation and judgment are also aided in having at one's finger tips the creations of those who are older in training and experience—the books of the past centuries. The *Guide* is a new, but tested device which has as one of its purposes this feature of directing teachers and pupils to the accumulated knowledge and ideas of the past. It lists the woodworking projects found in the form of drawings and descriptive material in 20,000 pages of 118 books.

This method of indexing the bulk of the world's knowledge on a given subject is an outgrowth of an attempt to reduce routine duties in the schoolroom so that more time might be left for actual instruction. The production of these guides is based on an experience of ten years of teaching shop and academic subjects, preceded by a number of years at the bench, a four-year college course in science, and a special course in engineering, as well as subsequent study in a state university, a state normal, and one university abroad.

A few suggestions as to the use which can be made of this guide may be appropriate. For executives whose duty it is to work out courses of study and to prescribe certain limits as to the kind of projects, the breadth of contact found in the use of this guide will be a welcome time-saver. For those few teachers who are still required to follow prescribed formal courses, but who are allowed to introduce optional models, and for others who are free to make changes as they see fit, regardless of the grades taught, this guide will be found convenient in suggesting models. The *Guide* helps to provide interesting supplementary problems for the fast worker who finishes his project before the rest have gotten well started. It also helps provide for the "repeater" who often has to repeat a grade, not because of poor shop work, but of poor academic work, by giving him a choice of a large list of projects. In other words, it makes easier the consideration of individual differences. The busy teacher with from fifty to a hundred and fifty pupils demanding attention each day, finds it hard to treat the boy as an individual. The nearest approach to this individual instruction and guidance is to be attained when the teacher has every possible device which furthers quick disposition of all questions and routine work of the shop satisfactorily. Charles G. Wheeler, in his book, *Woodworking*¹ says: "The more he (the teacher) can be freed from routine duties the less likely he will be to go stale or become narrow; and the breadth and enthusiasm of the teacher react powerfully upon the pupils. . . ." For the student himself who thinks he has made about everything that he wants to make, this will suggest about 1400 other interesting projects. It will help the student in designing. As there are several good books treating the processes of this art, and as this is a guide to projects already designed, the author will not attempt here a treatise on designing, except to suggest the place of this guide as an aid in the process. It seems reasonable that to design something new in any field of human endeavor, it is best to thoroughly investigate the fund of related knowledge already available. By gathering all the designs possible with the aid of this guide, analyzing and comparing them, selecting a good feature here, avoiding a poor one there, the student begins to learn to discriminate, to evaluate, and to create his own designs. Teachers will think of other uses of the *Guide* as they turn its pages.

¹G. P. Putnam's.
THE IMPORTANCE OF PROJECTS IN THE EDUCATION OF BOYS

From earliest childhood the boy likes to tinker with tools and materials and to make something. There probably isn’t a boy in the United States who has not sometime set out to make something which he thought he needed very much. Possibly it was an animal trap, a fishing tackle box, or a radio cabinet. He carries this tendency into school age and if properly encouraged and guided, furnished with pictures, drawings, books, tools, and congenial conditions, will spend many happy hours both in school and out, at this most wholesome activity. Before the advent of manual-training in the schools, for every boy who succeeded in completing what he wanted, there were probably ninety-nine who failed—and they failed because they lacked information, they had no drawings, and they had no one to encourage and guide them. But all this is different now, there are many splendid books and school shops, and there are teachers who are specialists in this guidance work.

Importance of choice projects. What Mr. Cotton said fifteen years ago in his introduction to Manual Training for Common Schools, is just as true today: “From the standpoint of character-building, it matters not little upon what problems pupils work, but the attitude displayed and the habits formed as they attempt a solution, are matters of great moment. Intelligent attack, orderly procedure, skillful execution, painstaking completion, habits of industry, good, honest work, respect for labor, the ability to do things, these are qualities that belong to real education.”

Paul V. Woolley.

Muncie, Indiana.
July, 1926.
But it is very important that the teacher understands that to obtain to the highest degree, any one of these qualities on the part of the boy, it is absolutely essential that he approach the subject matter with interest and enthusiasm. This he will not do when working on a project for which he does not feel a need. Therefore, great importance is connected with choosing a project.

Considerable difficulty arises sometimes concerning projects. The writer has experienced failures and has observed that many other teachers fail to obtain good results in manual arts classes because of having permitted a poor selection of projects. Too often, the course consists simply of work which centers around a few old-type problems such as the taboret, foot stool, and necktie rack. So often big brothers having made these and filled the home with such articles so that no more are needed, but young Johnnie makes one because teacher suggests it, and because almost every other boy makes such projects. In helping choose projects, teachers too often think in terms of their own interests rather than those of their pupils. Young teachers in particular, are generally interested in pieces of furniture because they are equipping their own household and because they themselves made such projects while attending the normal school or college. We need more to vitalize our project selection, to take into account the age of our pupils and to consider their interests.

Some facts which have a bearing on the selection of projects.

1. The things to be made should be worth making and the process of making them should be interesting to the student. A consideration frequently overlooked by the teacher is that cooperation which he can give to the boy, helping him with his problem of earning money. A boy should not expect, nor be expected to draw upon his father's purse for everything needed in his school activities. It is very important that he learn to earn his spending money so that he may become more independent and that he may appreciate the dignity of labor and the value of a hard-earned dollar. Carefully chosen projects, of value when well made, may be easily sold at school sales and bazaars arranged just before Christmas and at the close of school each year. Private sales may also be encouraged and the boy aided in his boyish financial enterprises which are so certain to be helpful to him in later years.

2. The project should possess educational value. Education may be general or specific. Projects should provide specific education by necessitating the learning of the proper tool processes, and by calling for a sufficiently large amount of drill to develop skill in using tools. General educational value should be derived in the making of projects which correlate with history, mathematics, and many other subjects which make for more efficient citizenship.

3. We must take into account the child's viewpoint, his inclinations and emotions, his instincts of ownership, curiosity, play, and social tendencies. These should be permitted to be expressed through the making of various toys, game projects, puzzles, and "boy activity" projects. Consider the instinct of play. "Let the pupil's work become as play and his play will develop into useful work." While it is not advocated that all shopwork center around play instincts, it seems that we need to cooperate more with boys in producing projects that help take care of their recreation and leisure time. It has been the writer's observation that in many shops no organized activities along these lines have been attempted. This is probably one reason for a lack of interest and for disciplinary troubles in some classes. There are many reasons for encouraging the making of projects for the kitchen and living room, yet there are just as many reasons for these other phases of work.
One very desirable activity which teachers are beginning to find highly successful is toy-making. There are many project books now on the market in which there are veritable gold mines of information along this line. One splendid feature about toys described in one leading series of books is that the greater part of them require little more than the "pick-up" material around the home. "Children take to this work like a duck takes to water." Anticipation of play or the pleasure of giving a toy to someone will spur any boy on to make a good job of game or play project.

Another such activity is that of boat-building. Every boy likes to build boats. The interest in boats seems to be born in the race. Nature made it inevitable that Americans should be water-loving people. Even the three-year old child is instinctively attracted to a puddle of water in which to sail his boat, which usually consists of nothing more than a chip or a common board.

Growing out of an interest in kites, for the younger children, is that of model airplane building. Thousands of boys, the world over, have built these ingenious little crafts, some of which have flown over one mile. The materials required are very inexpensive and there is much training of the hand as well as general educational value in the modeling.

4. The work must be within the mental grasp and constructive ability of the boy, and the age and former experience of the pupil must be considered. Failure is often due to having permitted a pupil to attempt too large or too difficult projects. Sometimes troubles arise because we attempt to keep all students together on uniform projects, in order to take more advantage of group instruction, regardless of the individualities of the students, and have thereby set up greater difficulties because of a lack of interest on the part of some pupils, and inferior ability on the part of others.

Going more into detail, experience has shown that beginning groups should be held closely to simple projects, the making of which teaches the most fundamental principles and uses of simple hand tools including the plane, square, saw, and hammer. The emphasis should be placed on technique and processes. Dimensions on drawings and blueprints should be fixed, and no variations permitted except as necessitated by poor work. All beginners should be required to make the same exercises the first few weeks so as to permit comparison of results and the establishment of high standards of accuracy. Authorities are well agreed that it takes some formal exercises and drill in beginning woodworking to teach a pupil to respect a "working line," and for this reason the pupil should be permitted to make only the simple projects which involve the squaring up of stock, both rough and mill-planed. Small projects should also be adhered to because beginners ruin more pieces and require extra material. Drawings and designs should be provided and no variation of dimensions permitted.

As the pupils' knowledge, appreciation, and skill increase, they should begin, by the second year, to modify existing projects and to make ones which involve accurate use of the chisel and accurate sawing to knife line with the back-saw. Projects containing dado joints may be found suitable for practice in sawing to fit. Most authorities suggest that projects involving mortise and tenon, miter, glue, joints and modeling, belong to the third year of woodworking, generally the first year of high school. This is probably best as a rule, though some very strong students may be ready for this work in the latter part of their second year. The modeling work, too frequently given in the early grades, should be left for the third year. Good modeling requires skill, judgment, and experience. To place it earlier is likely to give pupils the wrong impression
of its accuracy requirements. Projects requiring the use of only a few machines should be allowed in the third years, except with older and larger boys. Those requiring the hand-saw and scroll or jig-saw, and possibly the lathe, are appropriate. Cabinet making or millwork courses, beginning and advanced, allow the more difficult projects which include framed structures such as the various cabinets, desks, tables, and other pieces of furniture. These involve various degrees of difficulty and call for a bit of study on the part of the teacher, of the processes involved and the ability of the pupil before such projects are assigned.

By this time at least a few problems should be given which involve invention or original design, thereby encouraging the development of initiative. This brings us to the problem of just how much attention to give to designing. "Always to construct a project from a borrowed design is not meeting the entire requirements of the educational process," yet, woodworking as well as any other field of manual expression must develop the power to create, and to select and reject. While originality is to be encouraged in every way it should never be forced at the expense of appreciation, which must come first. Griffith says: "Better a chair of good design and proportion made after another's design with appreciation than an absurdity made after one's own design and its weakness not seen." (See CC 16-21.) The relative importance of design in public school education is well expressed by Professor Sargent when he says: "For one who will produce a design, a thousand must know how to select it."

5. Make a study of what boys most like to do and to make at home, and of the influence of the change of the seasons on the children's interests. "Tell me what a boy does of evenings after school or during vacations and I will tell you what kind of a man he will be." Taking the seasons into account helps to solve the problem of project selection, it being natural that one's interests are modified by their coming. From spring to fall the boys like to be outdoors. With the younger boys especially, kites should be ready for the kite tournament in March and the bird houses ready for the contest in April. These powerful socializing influences arouse enthusiasm to the "nth" degree. In farming communities, the practical needs of the farmer, which vary with the seasons, influence the interests of the boys on the farm. With the coming of long winter evenings, the indoor part of life assumes larger importance. Then the games and other indoor projects made in the shop should contribute to a harmless enjoyment of leisure time and toward keeping the boy happy and contented in his own home. He then needs healthful diversion, both mental and physical, more than at any other time. It is then that the interests turn to radio, gymnasium equipment, sleds, and Christmas toys.

There are other considerations which might be taken up in connection with projects, but these would only detract from the main issues already enumerated. Projects and boys will ever be associated as long as there are boys. Boys are live subjects, so must projects be, and let's always remember we are teaching boys.
EXPLANATORY NOTE

The key which follows is the bibliographical identification of the books. Key letters identify the books and the numbers indicate the pages except where special note indicates plate numbers.
<table>
<thead>
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<th>Title</th>
<th>Author(s)</th>
<th>Publisher</th>
<th>Year</th>
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<tr>
<td>CAFK—Construction and Flying of Kites</td>
<td>Charles M. Miller</td>
<td>The Manual Arts Press</td>
<td>1925</td>
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<tr>
<td>CAM—Carpentry and Mechanics for Boys</td>
<td>A. Neely Hall</td>
<td>Lothrop, Lee &amp; Shepard Co.</td>
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<tr>
<td>CC—Correlated Courses in Woodwork and Mechanical Drawing</td>
<td>Ira S. Griffith</td>
<td>The Manual Arts Press</td>
<td>1924</td>
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<tr>
<td>CFB—Carpentry for Beginners</td>
<td>John D. Adams</td>
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<td>CL—Farm Mechanics</td>
<td>Crawshaw and Lehmann</td>
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<td>CLk—Collector’s Luck</td>
<td>Alice Van Leer Carrick</td>
<td>Atlantic Monthly</td>
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<td>CM—Ship Carving</td>
<td>Harris W. Moore</td>
<td>The Manual Arts Press</td>
<td>1922</td>
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<tr>
<td>CR—Construction and Repair Work for the Farm</td>
<td>E. T. Struck</td>
<td>Houghton, Mifflin Co.</td>
<td>1923</td>
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<td>CSW—Coping Saw Work</td>
<td>W. B. Johnson</td>
<td>The Manual Arts Press</td>
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<td>CW—Cedar Chests</td>
<td>Ralph F. Windoes</td>
<td>The Bruce Publishing Co.</td>
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<td>DP—Drawing Problems Related to Agriculture</td>
<td>Louis M. Roehl</td>
<td>The Bruce Publishing Co.</td>
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<td>EAF—Measured Drawings of Early American Furniture</td>
<td>Burt L. N. and Bernice B. Osburn</td>
<td>The Bruce Publishing Co.</td>
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<td>EC—Elementary Cabinet Work</td>
<td>Frank H. Selden</td>
<td>Rand McNally Co.</td>
<td>1909</td>
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<td>ET—Educational Toys</td>
<td>Louis C. Peterson</td>
<td>The Manual Arts Press</td>
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<td>ETS—Elementary Turning</td>
<td>Frank H. Selden</td>
<td>Rand McNally Co.</td>
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<td>EWW—Educational Wood Working for Home and School</td>
<td>Joseph C. Park</td>
<td>The Macmillan Co.</td>
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<td>FD—Furniture Design</td>
<td>P. D. Crawshaw</td>
<td>The Manual Arts Press</td>
<td>1920</td>
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<td>FP—Furniture Projects</td>
<td>Frederick J. Bryant</td>
<td>The Manual Arts Press</td>
<td>1925</td>
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<td>FSB—Farmer’s Shop Book</td>
<td>Louis M. Roehl</td>
<td>The Bruce Publishing Co.</td>
<td>1924</td>
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<tr>
<td>FSW—Farm Shop Work</td>
<td>George M. Brace and D. D. Mayne</td>
<td>American Book Co.</td>
<td>1913</td>
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</tbody>
</table>

*Figures refer to plates.
| MBB— *Model Boat Building for Boys*  |
| --- |  |
| John W. Cavileer | The Bruce Publishing Co. | 1923 |  |

| MF— *Mission Furniture, Volume 1*  |
| --- |  |
|  | Popular Mechanics Press | 1909 |  |

| MF— *Mission Furniture, Volume 2*  |
| --- |  |
|  | Popular Mechanics Press | 1910 |  |

| MF— *Mission Furniture, Volume 3*  |
| --- |  |
|  | Popular Mechanics Press | 1912 |  |

| MM— *The Boy's Book of Mechanical Models*  |
| --- |  |
| William B. Stout | Little, Brown & Co. | 1924 |  |

| MT— *Manual Training for Common Schools*  |
| --- |  |
| Allen & Cotton | Chas. Scribner's Sons | 1910 |  |

| MTP— *Manual Training Play Problems for Boys and Girls*  |
| --- |  |
| W. S. Marten | The Macmillan Co. | 1919 |  |

| MTRS— *Manual Training for the Rural Schools*  |
| --- |  |
| Louis M. Rechel | The Bruce Publishing Co. | 1922 |  |

| MW— *A Course in Woodturning*  |
| --- |  |
| Milton & Wolbers | The Bruce Publishing Co. | 1919 |  |

| OBC— *Outdoor Boy Craftsman*  |
| --- |  |
| A. Neely Hall | Lothrop, Lee & Shepard Co. | 1925 |  |

| OHIB— *The Outdoor Handy Book*  |
| --- |  |
| D. C. Beard | Chas. Scribner's Sons | 1900 |  |

| PA— *Poultry Architecture*  |
| --- |  |
| George B. Fiske | Orange Judd Publishing Co. | 1919 |  |

| PAP— *Problems and Projects in Industrial Arts*  |
| --- |  |
| Kenneth R. LaVoy | The Manual Arts Press | 1924 |  |

| PBH— *Permanent Bird Houses*  |
| --- |  |
| Gladeck Calvert | The Bruce Publishing Co. | 1924 |  |

| PCM— *Practical Cabinet Maker and Furniture Designer*  |
| --- |  |
| Fred T. Hodgson | Frederick J. Drake & Co. | 1910 |  |

| PCn— *Photograph Construction*  |
| --- |  |
| E. M. Winterborne | The Bruce Publishing Co. | 1923 |  |

| PF— *Projects in Furniture Making*  |
| --- |  |
| F. A. Adams | The Bruce Publishing Co. | 1924 |  |

| PG— *Projects for Beginning Woodwork and Mechanioal Drawing*  |
| --- |  |
| Ira S. Griffith | The Manual Arts Press | 1923 |  |

| PIFM— *Problems in Furniture Making*  |
| --- |  |
| Fred D. Crawford | The Manual Arts Press | 1924 |  |

| PIW— *Problems in Woodworking*  |
| --- |  |
| M. Murray | The Manual Arts Press | 1924 |  |

| PT— *Problems in Wood-Turning*  |
| --- |  |
| Fred D. Crawford | The Manual Arts Press | 1923 |  |

| PTST— *Practical Things with Simple Tools*  |
| --- |  |
| Milton Goldsmith | George Sully & Co. | 1916 |  |

| PW— *Problems in Woodwork*  |
| --- |  |
| Edward F. Worst | The Bruce Publishing Co. | 1922 |  |

| PWB— *The Playwork Book*  |
| --- |  |
| Ann Macbeth | Robert M. McBride & Co. | 1918 |  |

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| RC— *Shop Work*  |
| --- |  |
| *Rush & Conway, Industrial Book & Equipment Co.* | 1918 |  |

| SAC— *Boys' Home Book of Science and Construction*  |
| --- |  |
| Alfred P. Morgan | Lothrop, Lee & Shepard Co. | 1921 |  |

| SB— *Help Projects Based on Community Problems*  |
| --- |  |
| Myron G. Burton | Ginn & Co. | 1915 |  |

| SSP— *Selected Shop Problems*  |
| --- |  |
| George A. Sexton | The Manual Arts Press | 1910 |  |

| SW— *Seal Weaving*  |
| --- |  |
| L. Day Perry | The Manual Arts Press | 1926 |  |

| T— *Manual Training Toys for the Boys' Workshop*  |
| --- |  |
| Harris W. Moore | The Manual Arts Press | 1921 |  |

| TBC— *The Boy Craftsman*  |
| --- |  |
| A. Neely Hall | Lothrop, Lee & Shepard Co. | 1905 |  |

| TC— *Toy Craft*  |
| --- |  |
| Leon H. Baxter | The Bruce Publishing Co. | 1922 |  |

| TF— *Trade Foundations Based on Producing Industries*  |
| --- |  |
| Guy M. Jones | American Book Co. | 1919 |  |

| TH— *Teacher's Handbook*  |
| --- |  |
| Charles A. King | American Book Co. | 1911 |  |

| THB— *The Handy Boy*  |
| --- |  |
| A. Neely Hall | Lothrop, Lee & Shepard Co. | 1913 |  |

| TPD— *Toy Patterns*  |
| --- |  |
| Michael C. Dank | The Manual Arts Press | 1920 |  |

| VD— *Beginning Woodwork*  |
| --- |  |
| Clinton S. Van Dusen | The Manual Arts Press | 1910 |  |

| VTZ— *Problems in Elementary Woodworking*  |
| --- |  |
| Hugo J. P. Vitez | The Southern Publishing Co. | 1920 |  |

| WC— *Woodwork and Construction*  |
| --- |  |
| Charles A. King | American Book Co. | 1911 |  |

| WD— *Working Drawings for Cabinet-Making Models*  |
| --- |  |
| Frank Holstead | D. C. Heath & Co. | 1913 |  |

| WFG— *Woodwork for the Grades*  |
| --- |  |
| Frank H. Selden | The Maudslay Press | 1917 |  |

| WLF— *Woodwork for Little Folks*  |
| --- |  |
| H. Pierce | Chas. Scribner's Sons | 1915 |  |

| WS— *Prevocational and Industrial Arts*  |
| --- |  |
| Wood and Smith | Mentzer, Bush & Co. | 1919 |  |

| WTC— *A Laboratory Course in Wood-Turning*  |
| --- |  |
| Michael J. Golden | American Book Co. | 1897 |  |

| WW— *Woodwork for Secondary Schools*  |
| --- |  |
| Ira S. Griffith | The Manual Arts Press | 1924 |  |

| WWC— *Woodwork for Amateur Craftsmen*  |
| --- |  |
| Ira S. Griffith | Popular Mechanics Press | 1911 |  |

| WWR— *Woodwork*  |
| --- |  |
| E. Ritchey | American Book Co. | 1905 |  |

| WWW— *Woodworking—A Handbook for Beginners*  |
| --- |  |
| Charles G. Wheeler | G. P. Putnam's Sons | 1924 |  |

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*Figures refer to plates.
†Roman numerals refer to plates.
ADDRESSES OF COOPERATING PUBLISHERS

American Book Company, 300 Pike St., Cincinnati, Ohio.
The Atlantic Monthly Press (Purchased by Little, Brown & Co.)
The Bruce Publishing Company, 354-364 Milwaukee St., Milwaukee, Wis.
The Century Company, 353 Fourth Ave., New York City.
Dodd, Mead & Company, 443-449 Fourth Avenue, New York City.
Frederick A. Stokes Company, 443-449 Fourth Avenue, New York City.
Frederick J. Drake & Company, 1006 S. Michigan Avenue, Chicago, Ill.
The A. C. Gilbert Company, New Haven, Conn.
Ginn & Company, 2301-2311 Prairie Avenue, Chicago, Ill.
Guy M. Jones Company, Merchants Bank Building, Indianapolis, Ind.
Harper & Brothers, 49 E. 33rd St., New York City.
D. C. Heath & Co., 1815 Prairie Avenue, Chicago, Ill.
Houghton, Mifflin Company, 2451-2459 Prairie Avenue, Chicago, Ill.
Industrial Book and Equipment Company, Maryland & Missouri Sts., Indianapolis.
Lothrop, Lee & Shepard Co., 275 Congress St., Boston, Mass.
The Macmillan Company, 60 Fifth Avenue, New York City.
Mentzer, Bush & Co., 2210 S. Park Avenue, Chicago, Ill.
Moffat, Yard & Co. (Purchased by Dodd, Mead & Company).
Munn & Co., Woolworth Building, 233 Broadway, New York City.
Popular Mechanics Press, 200 East Ontario St., Chicago, Ill.
G. P. Putnam's Sons, 2-6 W. 45th St., New York City.
Robert M. McBride & Co., 7 West Sixteenth St., New York City.
Charles Scribner's Sons, 320 E. 21st St., New York City.
The Southern Publishing Company, 2015 Jackson St., Dallas, Tex.
George Sully & Company, 114 E. 25th St., New York City.

ACERBATS—ET 64, HC 128.
ACEFELLE—HF 267.
AERIAL CONVEYOR—THB 351.
AERIAL MASTS—BA 126.
AEROPLANES—TPD 12, PWB 136, MTTP 100, IW 62, 64, HWFB 102, THB 178, BMA entire, Building and Flying an Aeroplane, Hayward.* (See also under Models.)
GLIDERS—See under KITES.
PROPELLERS—BMA 72, HBB 310, THB 274, 282.
WEATHERVANES—HC 64, VTZ 97.
AIRLINE RAILWAYS—MM 47, 53, AB 283.
AIRSHIP, SANTA CLAUS—THB 193.
ALPHABET—WLF 3, 4, 5.
AMBULANCE—HC 68.
ANEMOMETER—SAC 408.
ANIMAL CASES—JAT 33-47, ABW 137, HBB 399, PTST 108.
ANIMAL TRAPS—See under TRAPS.
ANTIQUE FURNITURE—AF entire, EAP entire.
APPLE BOX PRESS—FWR 107, FSB 206.
AQUARIUM—MTTP 134.
ARM CHAIRS—See under CHAIRS.
ARMORED CAR—HC 60.
ARROWS—T 33, BA 72, 74, VTZ 30, PWB 103, ABW 125, TBC 232, PTST 41, HWFB 116.
ARTIST'S PALETTE—TPD 1.
ASH RECEPTACLE (For Smokers)—ABW 248.
ASH SIFTERS—WS 104, BBC 123, ABW 280, TBC 52.

*Popular Mechanics Co.
Auto Creeper—SB 221.
Auto-Kar—ATM 104. (See also Kiddie Kar.)
Automobiles—T 83, HC 142, AST 53, ATM 71, 72, MM 7, 19, PAP 53.
Carts—HC 68, GC 52.
Auto Trucks—HFB 228, HHB 180, 374, HMT 192, TBC 352, IW 57, 58, HWFB 104.
Electric—HMT 132, THB 162.
Auto Wagon, Life Size—HFB 374.
Clockwork—HMT 104, TBC 343.
Awl—JSHM 4, HWFB 17.
Axe Handle—RC 111.

B

Baby's Bed and Play Yard—HC 80.
Baby's Cart—ATM 66, TC 93.
Baby's Chair—ATM 110.
Back Rest—EWP 28.
Back-Stop for Ball Games—HMG 270, 303.
Back-Yard Club-Houses—TBC 175. (See also Club-Houses.)
Bag Holders—FWR 64, HFD 111, FSB 189.
Bag Puncher—HC 108.
Balance—MT 178.
Ball Players' Equipment—
Back-stop—HMG 270.
Baseball Bats—BA 20, ATM 117.
Baseball Goods Box—BA 22.
Baseball Target—HMG 260.
Bench—BA 32.
Bleachers—BA 28, 30.
Home Plate—BA 24, HMG 267.

Banjo, "Uncle Toms"—BHB 424.
Bamboo—HC 104, AST 66.
Barn Door Stop—FSB 187.
Barns, Dairy and Horse—DP 25, AW 128, 132.
Basket—
Feed—HFB 83.
Fireplace—PW 92.
Fruit—VTZ 95.
Hanging—PW 25, LUC 96, CFB 225, CAM 316.
Knitting—HC 108.
Log—CFB 128, PW 92.
Newspaper—CFB 129, PW 108.
Rustic, Fern—CFB 225, LUC 96.
Scrap—(See Waste Basket.)
Sewing—PW 162, 223, MP 14, CAM 83.
Waste—HC 132, PW 222, HW 189, MP 93, FSB 53, DW 1, CM 42.
CC 224, JSWW 26, MF 27, CFB 70, LUC 83, VTZ 113, DC 35-37, PW 90, 137, 144, 219, 222, EWP 108, FWR 37, FM 41, RC 4V, CAM 81, 106, 113, ABW 238, WFG 201, 203. Woven—FWR 55, PW 137.
Wood—FWR 53, FWP 78.
Woven—FWR 51, 55, 78, PW 137, 1W 100-128.
Bathroom Mirror—CFB 42. (See also Shaving under Cabinets.)
Bean Shooters—ABW 150, TBC 262.
Beethoven—MP 99, IA 113, CFB 189, AP 166-174, RC XXII, WD 72.
Beeswax—FW 116, 120, HFD 127.
Beehive Seat and Tool Box—AW 66, FSB 224.
Bench—MT 200, FW 60, IA 74, CFB 76, LUC 88, FSB 96, HIB 17.
AW 48, JSHM 1.
Ball Players’—BA 32.
Carver’s—HIB 44.
Bench—CR 319.
Bench Carriers—CR 161, FWR 116, AW 20, HFD 163, MTRS 34.
Bicycle Parcel Carrier—OBC 112.
Bicycle Rack—BA 32, 34.
Bike Garage—CAM 258.
Bill Files—PG 14, CC 155, CAM 37, BMT 45, IWF 52.
Billiard and Pool Table—HMG 194.
Billiard Table and Davenport Combined—MF 51.
Bird Bath—BHS 32.
Bird Cage Standard, Woven—FW 89.

Bird Feeders and Shelters—PW 31, BH 41-52, EWP 78, PAP 29, BA 100, CFB 245, HHH 387, PTST 123, BHS 32, 33, BHA 61, PBH 50, 52, 53, OBC 159.


Chickadee—FW 46, BHA 58, AW 24, BH 30.
Finch—BH 46.
Flicker—(See Woodpecker.)
Flycatcher—BH 33.

Martin—BH 42, WS 102, FW 47, CFB 247, PW 39, BHS 26, 28-31, CAM 364, OBC 73.


Nuthatch—BHA 54, 55.
Robin—BHS 18, BHA 46, 47, FWR 63, HHC 30, CAM 348, GC 62, JSWW 11, FSB 326.

Rustic—BH 22, 34, CFB 237, AW 24, BHA 60, PBH 43.

Sparrow Nest—BHS 20, BH 58, FSB 233.


Tinman—BHA 57.
Woodpecker—BH 28, 29, 31, WS 102, CFB 240, BHS 36, BHA 52,
WOODPECKER—Cont.
LUC 109, FSB 226, FWR 62, PW 41, JAT 64, CAM 353. Downy—BHA 50, 51.
Wren—BH 24, 25, 26, 27, 29, 31, 32, 35, FW 47, WS 102, DC 148,
BHA 48, 49, PBH 14, OBC 64, 67, AW 24, 38, PW 27, 41, BHS
12, 16, 18, 36, CFB 244, GC 62, CAM 343, 348, FWR 63, HJC
30, MTRS 24, PAF 125, JSWW 11. Bungalow—PBH 22, GC

BIRD STICKS—IW 25.
BLEACHERS—BA 28, 30.
BLOTTER HOLDERS—DC 133-136, PIW VII 9, WFG 189, CM 24, EWP
87, TH 81, CAM 36, EWW 183.

BLEACHED HOUSES—(See under BIRDHouses.)

BLUEPRINT FRAME—HBB 98. (See also Photographic Print Frame.)


Bicycle—BB 77, ABS 64.
Canoes—Birchbark—BBB 48, BHB 390. Canvas—AB 109, ABS 258,
HBB 307, BBB 33, 62, BB 5, 13, 17, TBC 201, BHB 406, ABW 40.
Dugout—BBB 27. Sailing—AB 111. Siwash—BBB 27, BHB 408.
Slab—BB 47, BBB 26, BHB 389. Umbrella—BBB 44, OHB 216.
War—BBB 34.

Catamaran—HBB 93, 101, BBB 8, BB 33, BHB 95, OHB 203.
Center-board Sharpies—HBB 79.
Chump's Raft—BBB 14, OHB 274.
Cruising Catamaran—BB 35.

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BOATS, LIFE SIZE—Cont.
Crusoe Raft—BBB 10, BHB 97.
Dory—HBB 223.
Dory, old type, rowing—HBB 73, BBB 69.
Dugout—BBB 27.
Flat—BBB 105, OBC 301.
Flat—HBB 119.
House—JAT 146, HBB 103, BBB 163, BB 52, BHB 105, OBC 315.
House-Punt—HBB 103.
House-Raft—BB 99.
Hydroplane—HBB 125, BB 33.
Ice—BBB 281, ABW 153, 185, PTST 101, AB 159, OBC 380.
Land—PTST 104, AB 215.
Logomaran—BBB 3.
Man—Friday—BBB 8, 18, BHB 95.
Motor—BBB 184, HBB 219, 267, BB 40, 65.
Paddle-Wheel—BB 44.
Paper—BB 37.
Portable, Folding—BB 16. (See also UMBRELLA CANOE.)
Power Punt—HBB 89.
Proa—HBB 82.
Punt—HBB 66, 103, 220, BB 64, ABW 61, HBB 351, BA 98.
Rafts—BBB 10, 15, 18, BHB 97, HBB 109, AB 256, OBC 321.
Rigs for boats—BBB 43, OHB 176.
"Rough-and-Ready"—BBB 154, OHB 187.
Row—ABW 37.
Run-about—BB 1, HBB 288.
Sail—ABW 50, ABS 297.
Sailing Catamaran—HBB 95, ABW 64.
Sailing Raft—BBB 18, ABW 63, AB 258, OHB 197.
Sailing Sharpie—HBB 75.
Scooter—BB 40, AB 183.
Boats, Life Size—Cont.

Scow—HBB 66, BHB 101, JAT 159, AB 59.
Sea-Gull—BB 56.
Sharpy—HBB 69, 75, 79, HBB 356.
Side-wheel Catamaran—HBB 101.
Skiff—HBB 221, ABS 18.
Skijack—HBB 221.
Swallow—HBB 84.
Yankee Pine—BIB 113, BBB 139.
Boats, Model or Toy—MTPP 28, HWFB 86.
Barge—BMB 34.
Battleship—CAM 128, 145, BMB 39.
Cruiser—BMB 31, CAM 130.
Electric Submarine Chaser—BMB 98.
Fishing—HBB 32.
Flat Bottom Skiff—MBB 67.
Floating Dry-Dock—BMB 135.
Freighter—BMB 36, 91.
Hulls—BMB 17, BMB 12, CAM 130, HBB 23.
Kite-String Sail—T 56, HC 132.
Launch—Electric—BMB 66. Steam—BMB 75.
Merrimac—TC 44.
Monitor—TC 42.
Motor—HMT 33, PTST 74, MBB 22, 40.
Noah's Ark—HWFB 96.
Paddle-Wheel—HBB 54.
Sail—BIB 32, 118, HC 132, T 56, 95, BMT 75, MTTP 122, HWFB 90.
Sailing Yachts—MBB 43, 46, 54, 58, BMB 164, 184, PAP 127.
Screw Propeller—HBB 48, PAP 55.
Shallow Draft Motor—MBB 40.

Boats, Model or Toy—Cont.

Ship—PWB 114.
Sloop—HBB 37.
Speed Motor—MBB 22.
Spring Drive—MTTP 29.
Steam—BMB 42, 55, 75, HBB 42.
Stern-Wheel, Rubber Band Drive—MBB 15, ET 50, MTTP 29, PAP 33.
Submarines—CAM 128, 139, BMB 26, 29, HC 148, MM 254. The Boy's Book of Submarines—A. Frederick Collins.*
Submarine Chaser, Electric—BMB 98.
Superdreadnought—CAM 129.
Torpedo Boat Destroyer—BMB 37.
Tug—BMB 32.
Yachts—THB 85, PIW IX 16, 17, 18, MBB 43, 46, 54, 58, BMB 40, 164, 184, HBB 19. Ice—ABW 185.
Boat Lift—ABW 67.
Boat Shade—ABW 66.
Bob Sleeves—(See under Sleeves.)
Revolving—FSW 285, PCM 306.
Sectional—ABW 206.
Book Ends—WW 231, 232, EWP 119, HC 58, GC 69, CAM 44, FP 35.
Book Racks—(See under Racks.)
Book Shelves—(See under Shelves.)
Book Stands—(See under Stands.)
Book Tower—HIB 307.
Book Trough—MF 28, PW 29, LA 64, FM 6, 26, RC I, V, PG 15, CC 169, 209, HC 118, VTZ 63, 114, CAM 118.

*Frederick A. Stokes.
Boomerang—BA 70, BHB 190.

Bows—T 34, ABW 125, BHB 418, HMG 242, TBC 236, HWFB 116, PTST 41. *(See Arrows.)*

Cross—*(See under Guns.)* Whip—BA 74, BHB 194.

Bow Drills—ABW 269, ET 7, ABS 61, MTFF 10.

Bow Guns—*(See under Guns.)*

Boxes—

Baseball Goods—BA 22.
Beehive Tool—AW 66.
Breeding, Larvae—BHB 244.
Boy Scout—HC 88, 128.
Camping, Lock—BA 96.
Card Index—TF 500, CAM 66.
Chicken Feed—FSW 56.
Coal and Wood—HIB 32, CL 58, PTST 174.
Collar—WS 116. *(See also under Turning.)*
Combination Plat and Germination—CR 65.
Common—WWW 139, 147, 154.
Covered—WWW 158, WFG 207. *(See also under Turning.)*
Flour—HIC 110.
Flower—WS 98, FWP 51, HC 146, CR 288, LUC 94, 98, JSWW 14,

CFB 54, 224, 226, CL 59, VTZ 82, CAM 309, THB 382. Rustic—

CFB 225, BBC 179.
Forcing—*(For Plants.)*—CR 75.
Freewright—HIB 64.
Geranium—CFB 226, LUC 98.
Germination—HFD 251, CR 65.
Glove—CM 12, PG 14, TH 85, CC 157, DC 138, WWR 120.
Hanging, for flowers—CAM 311, 313, ABW 240. *(See also under Baskets.)*

Jewelry—WW 221. *(See also Covered Boxes under Turning.)*

Boxes—Cont.

Knife and Fork—PIW VII 8, PIW VIII 9, CC 146, 147, MT 172,

AF 187, EWP 72, HIB 146, HC2 94, GC 77, PG 13, VTZ 47,

TH 95, IWF 64, WFG 191, EWW 195.

Letter—TH 101, WWR 123. *(See also Letter Holder and Mail Box.)*

Magic—T 38.
Mail—VTZ 48.
Marble—VTZ 44.
Match—THB 108, SB 25, LUC 31, CFB 27, HIB 185, AST 71,

EWW 171, IWF 58, IW 46. Self-Feeding—HC 144, GC 80.

*(See also under Turning.)*

Matting—CW 65.
Measuring for Concrete—CR 268, FSW 248.
Miter—VTZ 49, WC 192, HIB 39, BBC 40, SB 125, JSWW 13, FW 18, CR 302, WWW 57, FWR 37, TBC 10, HFD 24, AB 288,

JSWH 2, FSB 53.
Mixing, for Concrete—FW 122, CR 268.
Nail—MT 159, SB 161, FW 8, PG 13, CR 304, 310, WFG 216, 217,

CC 145, FSB 45, 55, IWF 60, 75, MTR 22, JSWW 8, WS 106,

VTZ 48, TBC 18, HIB 34; And Staple—AW 22, GC 58,

DP 19, 19, FWR 32.
Pencil—T 29, ACB 45, BMT 165.
Plant (For Porch)—GC 72, HIB 36, 106, HC 146, PTST 177. *(See also Flower Box.)*

Salt—LUC 44, CFB 35, IWF 57, PAP 37.
Seed Corn Testing—FWR 39, SB 183, FSW 44, FSB 212.
Shoe—PW 131, HIB 18, 343.
Shoe Brush—LUC 69, CFB 59, BBC 127.
Shoe Polishing—SB 201, CFB 57, EWP 40, 62, PIFM 19, WFG 229,

WS 116, PAP 49, RC IV, LUC 67, THB 100, BBC 127, PW 33,

122, HIB 20, VTZ 47, 115, ABW 229, PTST 165, MF 57.
Traveler's—HC 120.
Boxes—Cont.
Slipper—LUC 75, CPB 64, VTZ 85.
Stamp—CM 20.
Stationery—PIW VII 6, CPB 40, 44, DC 144. (See also Stationery Case.)
Tool—MT 199, LUC 22, CPB 16, WC 213, TBC 17, CR 309, 324, DP 10, FWR 49, AW 70, FSB 47, 64, MTRS 32.
Utility—CR 304, PTST 151.
Window—(Flowers)—CPB 290, SB 121, VTZ 82, CAM 310, PTST 177, HIB 160. Woven—FWP 51.
Wood—FWR 51, HIB 32, CL 58, PTST 174, FSB 78.
Box Furniture—Entire book, this title, Louise Brigham.*
Box Kites—(See under Kites.)
Box Traps—(See under Animal Traps.)
Boy Scout Equipment—
Belt Kit—HC 128.
Fire Making Kit—HC 78.
First Aid Kit—HC 88.
Heliograph—HC 94, AB 147.
Trek Cart—OBC 93.
Boy's Print Shop—TBC 126.
Brackets for Flower Box—JSWW 15.
Bracket Shelves—(See under Shelves.)
Bread and Meat Board—SB 69, FW 60, WS 126, IWF 62, MTRS 12, CL 47, PW 9, 10, 24, WFG 110, CC 141, PIW IX 3, WD 31.
PG 11, HC 70, AW 10, VTZ 33, PAP 43. (See also Cutting Boards.)
Breakfast Tables—(See under Tables.)
Bridges—AB 95, ABS 121.

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CABINETS, MUSIC—Cont.
HFM 141, WD 28.
Nail and Screw—HW 145, FW 24, FSB 32.
Phonograph—PCn 12-20, AF 183-186.
Piano Player—WD 82.
Seal—FW 42.
Sewing—PIFM 30, 31, CC 227, MF\textsuperscript{a} 14, 84, FM 44, FP 23, 31, PAP 139.
Woven—FNP 61. Martha Washington—FP 31. (See also under Stands.)
Shaving—ABW 245, 246, THB 88, SB 269, TH 103, PAP 135. (See also under Stands.)
Smoking—HC\textsuperscript{a} 54, CFB 158, WD 15. (See also under Stands.)
Sportman’s—BA 118.
Stationery—CFB 44, PW 68, 70.
Tool—FWR 25, HIB 11, TBC 14, HHB 33, THB 36, FSB 29.
Cabin, Daniel Boone—JAT 116.
Cake Boards—(See Bread Boards.)
Calendar Mounts—PG 14, 15, VTZ 17, ACB 24, CAM 34, 42, CC 153, 172, THB 110, PAP 23.
Camera for Drawing—BHB 252, PTST 81.
Camping Equipment—ABW 7.
Bed—BA 90, OBC 245, 263.
Boat—(See Boats.)
Chairs—(See under Chairs.)
Chest and Cupboard—OBC 271.
Cot—BA 90.
Lock-Box—BA 96.
Log Cabin—ABW 19.
Mess Kit—BA 96.
Stools—(See under Stools.)
Table—OBC 252, 255.
CAMPING EQUIPMENT—Cont.
Tip-Settle—(Combination Chair, Table and Storage Box)—CFB 97.
Candle Sticks—SB 165, DC 83-98, PAP 47, MF 35, PW 32, LUC 26, 28, CAM 33, 45, CFB 19, 23, AST 62. (See also under Turning.)
Scissors—PW 68, AST 63, CFB 202, ABW 247.
Cannon—(See under Guns.)
Canoe Paddle—PIW VIII 12, VTZ 32.
Canoe—(See under Boats.)
Card Cases—CM 22, PG 14, CC 154.
Card Index Box—TF 500, CAM 66.
Card Table—(See under Tables.)
Carts—T 78, ET 86, HHB 189, HMS 192, HC 66, VTZ 46, WIL 18, TH 92.
Auto—GC 52, HC\textsuperscript{a} 68.
Baby’s—ATM 66.
Bear—AST 48.
Chicken—AST 47.
Duck—AST 42.
Feed—CR 247.
Hay—ATM 67.
Horse—CSW 15, HFB 239.
Stock—HED 91.
Swan—AST 41.
Caster’s Bench—HIB 44.
Catarina—(See under Boats.)
Cedar Chests—(See under Chests.)
Chafing-Dish Stands—(See under Stands.)
Chairs—PIFM 34, WW 267, FD 111-120, CLK 23, HFM 60, HW 198.
Antique—AF 141-165, EAF 17, 25, 67.
Arm—AF 157, IA 14, EC 154, 160, 162, MF\textsuperscript{a} 18, 66, MF\textsuperscript{a} 47, 79, CC 215, FM 32, HC\textsuperscript{a} 138, GC 71, CFB 114, 168. Woven—FNP 128, WD 57, 68.
Baby’s—ATM 110.
Chairs—Cont.
Bannister-Back—EAF 25.
Book—HIB 311.
Boudoir—SW 25, PF 68, CFB 148.
Box-Rockers—CAM 108, HHB 164.
Camp—BA 92, 94, MF 15, HHB 349, OBC 248, 251.
Cane Back—SW 38, 54, IA 108. Wingback—SW 16, 18.
Child’s—HIC 40, ATM 110, SW 51, WD 52. Woven—FWP 123.
Chippendale—CLK 9.
Colonial—PF 70.
Corner—(Angle Chair)—PCM 267, HFM 60, WD 67.
Desk—PIFM 34.
Dining—SW 25, 38, 54, Mf 79, PF 69, FM 31, RC XVII, PW 161,
WD 53-55, CFB 117, 169, FSW 284, EC 133.
Doll—(See under Doll Furniture.)
Duncan Phyfe—AF 151, 153.
Eighteenth Century—CLK 161, 162.
Empire—AF 150, 152, 154, 155, 161, CF 46.
Folding—BA 92.
Hall—MF 115, PIFM 34.
Hepplewhite—CF 44.
Hickory—PW 167.
High—EAF 41.
Italian—AF 146, 149.
Jacobean—AF 163, 164.
Ladderback—SW 42.
Library—PIFM 32.
Louis XVI—AF 158, 159.
Mission—HHB 128, HFM 150, 187, MF 5, 36, 115, PIFM 311, RC
XV, PIFM 37, FM 37, CC 229.
Morris—FD 96, MT 207, PF 73, PW 143, MF 22, CC 216, WD 63,
64, RC XV, CFB 155, 174, HC 40, HFM 187, HHB 273, FM 33,
PIFM 32.

Chairs—Cont.
Office—HHR 163.
Porch—MF 15, FSW 31.
Renaissance—AF 162, 163.
Rockers—WW 257, FD 99, PF 72, MF 74, RC XV, FM 36, WD
60-63, PIFM 34, CC 219, IA 79, FU 27, 47, SW 23. Woven—
FWP 133.
Roman—HHB 126, MF 67.
Sewing—WD 59. Woven—FWP 125.
Sheraton—AF 155-157, CLK 161.
Shield-back—EAF 67.
Side—MF 62, MF 88, CAM 124, CC 214, PIFM 34, WFG 186, EC
Square—PF 74, MF 36, FM 37.
Stenciled—CLK 23.
Telephone—PF 48, CAM 121. (See also under Stools.)
Vase-Back—EAF 46.
Windsor—CF 38, 46.
Wingback—SW 16, 18, EAF 77.
Woven—FWP 123-137, SW 26, 34, 41, 51, EC 140, 144.
Chair-Ladder, Combination—CFB 94, TF 425.
Chair Lounge—(Woven)—FWP 136.
Chandeleers—AC 21, 55, CC 174.
Checker-Boards—(See Games and Tables.)
Chess-Boards—(See under Games.)
Chests—FD 68, RC XIII, PF 89, EAF 36.
Bureau-Chest—EAF 33.
Cedar—CW entire, RC XIII, CFB 90, SB 273, MF 79.
Guild—AF 103.
Hall—HFM 101. (See also Hall under Seats.)
Italian—CW 15.
Linen—CC 234, WD 27, FM 51.

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Chests—Cont.
Matting—CW 66.
Of Drawers—AF 103-125.
Tool—HIB 13, HFB 22, SB 253, FW 20, 22, CR 325, WWW 159,
FSW 146, THB 40, HIB 30, PTST 8.
Treasure—HIB 280.
Venetian—(16th Century)—CW 14.
Chest Weights—(See under Gymnastic Apparatus.)
Chicken House—(See under Bird Houses.)
Chicken Brooder—(See under Poultry Projects.)
Chicken Coop—(See under Poultry Projects.)
Chicken Crates—(See under Poultry Projects.)
Chicken Feathers—(See under Poultry Projects.)
Chiffonier—RC XXII, HIB 167.
Child’s—
Cart—TC 93, ATM 66.
Chair—(See under Chairs.)
Clothes Rack—TC 55.
Costumers—ATM 106. (See also Costumers.)
Dresser—MF 85.
Dump Wagon—TC 95.
Garden Tools—MTPP 114.
Ironing Boards—TC 49-54.
Jumping Board—BA 70.
Playhouse—BA 84.
Sand-Box—ATM 111, 112.
Settle—WD 65.
Snow-Shovel—TC 46, HC 98.
Step-Ladder—TC 59.
Swings—(See under Swings.)
Tables—TC 128, WD 65.
Wash-Bench—TC 57.
Wheelbarrows—(See Wheelbarrows.)

Chippendale Chair—CLk 9.
Chippendale Sofa—CLk 10.
China Closet—(See under Cabinets.)
China Racks—(See under Racks.)
Chisel Handles—(See under Handles.)
Chiseling Board—VD 39.
Choo-Choo-Kar—ATM 105.
Christmas Fireplace—JAT 237.
Christmas Tree Stands—HC 140, BMT 171.
Christmas Tree Table—HC 122.
Cigar Box Toys—HIB 178, HMT 187, 191, PTST 58, TBC 122.
Automobile—MM 7.
Banjo—BHB 24.
Cash Register—MM 67.
Doll Furniture—TBC 109, HMT 187, MTPP 4.
Dump Car—MM 34, HIB 178.
Monorail—MM 41.
Perpetual Calendar—MM 157.
Railway Freight Car—MM 30.
Railway Locomotive—MM 24.
Railway Tender—MM 25.
Telephones—MM 73.
Threshing Machine—MM 165.
Toy Scales—MM 59.
Wagons—HIB 180, HMT 192.
Walking Horse—MM 170.
Windmill—HMT 4.
"X-Ray" Machine—MM 111.
Circus—JAT 191, 270, BMT 107, 129, TBC 255. (See also Toy Animals.) Cage—HWFB 108.
Clocks—
Banjo—CF 36.
CLOCKS—Cont.
Bracket—HIB 322.
Electric Alarm—THB 113.
Grandfather’s—MF 10, CF 31, AF 175, PCM 200, WD 76.
Hall—(See Grandfather’s.)
Mantle—MF 52, HIB 324, 328, THB 118, FP 37, 39.
Miniature, Tall or “Grandmother”—EAF 63.
Queen Anne—AF 175.
Wall—HIB 324, 326.
Clock Shelves—(See under Shelves.)
Clockwork Motors—HMT 97, HIB 199.
Clockwork Toys—(See under Toys.)
Clothes-Hanger—(Corner of Room)—SSP 10. (See also Coat Hangers.)
Clothes-Line Holder—FSB 75.
Clothes-Line Winder—FW 12, 26, EWP 50, TBC 48, FSB 76.
MTS 18, AW 58. With pin holder—VTZ 45.
Clothes-Pin Blacksmiths—GC 66, MTSP 54.
Clothes-Pin Holders—VTZ 44, 45.
Clothes-Press—HIB 359.
Clothes Racks—(See under Racks.)
Clothes Stick—EWP 58.
Clothes Tree—(See Costumers.)
Cloth-Houses, Back Yard—TBC 175.
Castle—HIB 404.
On the Water—JAT 97, ABS 28.
Tree-Top—JAT 3, THB 340, AB 132, OBC 221.
Underground—JAT 89, AB 171.
Coal and Wood Box—(See under Boxes.)
Coaster Sleeper—(See under Sleeper.)
Coaster Wagon—(See under Wagons.)
Coat and Hat Rack—(See under Racks.)

COAT HANGERS—SB 41, PTW VIII 1, GD 40, WC 210, PG 12, EWW 175, LUC 14, CC 144, CFB 11, TH 79. Suit—EWP 85, PTW IX 2, EWW 176.
COLD FRAME—FW 82.
COLLAR BOX—(See under Boxes.)
COLONIAL CHAIR—PF 70.
COLONIAL LOOKING GLASS—CF 48. (See also Mirrors.)
COMMODES—AF 105, 110, 114.
CONCRETE MIXING PLATFORM—CR 269.
CONCRETE TAMPER—CR 270.
COPS, CHICKEN—(See under Poultry Projects.)
COPING SAW WORK SUPPORTS—TC 21, WWW 55, ET 7, AST 11, IW 12.
CORN CRATES—FW 38, CR 149.
CORN CRIBS—AW 127, TF 431, HFD 212, FSB 251.
CORN DRIER—CL 83.
CORNER CHAIRS—(See under Chairs.)
CORNER SEATS—ABW 200, BBC 134.
CORNER SHELVES—(See under Shelves.)
CORNER TABLES—(See under Tables.)
CORN RACKS—(See under Racks.)
COT—BA 50.
COUCHES—MF 33, TBC 63, HFM 158, WD 71, EAF 69.
COUNTING BOARDS—VD 23, FG 10, CC 133, EWW 188, WFG 105.
COWBOY AND INDIAN, MOUNTED—JAT 271.
COW STANCHIONS—SB 213, CR 240, 242, CL 85, FSW 122, FSB 185.
CRADLE, BARREL—HFD 46.
CRANES, LIFTING—MM 98, PWB 99, CAM 181, 190.
Crate—Bushel—WS 166, HFD 248, FSB 223.
Carrying—FWR 78.
Chicken—FW 34, FWR 78.
Corn—CR 149, FW 38.
Peck—CL 34.
Potato—CR 147.
Sheep and Hog Shipping—FWR 97, CL 58, FSB 146, 151.
Show—FWR 78.
Creep for Lambs and Pigs—CR 214.
Crock Covers—CC 142, WS 106.
Crossbow—(See under Guns.)
Cup Bracket—HC 46.
Cupboard—(Jacobean)—AF 176.
Cutting-Boards—WS 106, WD 31, HC 42, FW 60, EWP 32, CC 132.
PFG 9, TH 75, EWW 177, JSWW 6, WFG 92.

Dairy and Horse Barns—DP 25, AW 128, 132, FSB 252.
Darts—T 16, 19, TC 75, HC 32, PWB 105, MTPP 76.
Davenport—MF 68, WD 69.
Caned Ends and Back—SW 22, WD 69.
Combined with Billiard Table—MF 51.
Upholstered—PF 76, HFM 213.
Desk Pignonholes—PF 62, 66, ABW 226.
Desk, Writing—(See Writing Desks.)
Desk Trays—(See under Trays.)
Desk With Bookcase—ABW 216, CFB 81.
Dictionary Stand—(See under Stands.)
Desk Telephone Directory—CAM 49.
Dining Chairs—(See under Chairs.)

Dining Tables—(See under Tables.)
Dipping Frame—(For Painting Toys)—ATM 29, 30.
Dish-Cloth Rack—(See Racks.)
Dish Drainer—EWP 26, VTZ 105, TH 78.
Diving Tower—OBC 333.
Dog-House—FW 58, WS 104, BA 116, FWR 57, CL 82, HHB 89, 389,
PTST 120, FSB 138.
Doll Buggy—ATM 80.
Doll Furniture—CLk 194, 207, PWB 92, CAM 23, BMT 89, TBC
109, HFB 74, HMT 174, ATM 75, 77, PTST 56, AST 32,
HHB 182, MTPP 4, IW 49.
Beds—ET 56, PW 21, AST 32, ATM 85, 86, TC 89, CLk 202, 205,
TBC 119, 123, HC 114, GC 42, BMT 63, MTPP 112.
Chairs—PW 20, ATM 76, HC 40, ET 54, CLk 202, 206, WLF 14,
MTPP 18, 110, 140 AST 33, 34, TBC 113, BMT 59, HHB 182,
Clothes Rack—TC 55.
Costumer—HC 116.
Cradles—MT 170, ET 54, PW 22, TC 84-88, HC 84, CLk 202, HHB
183, HMT 195, IW 52.
Ironing-Boards—TC 49-54.
Tables—ET 56, AST 35, ATM 75, HHB 182, BMT 59, IW 51,
HFB 76, TC 62, MTPP 108, HMT 178, 189, 194, TBC 115.
With Drawer—TC 62.
Dolls—HC 60, Jointed—MTPP 118, 138.
Doll’s Hobby Horse—ET 50.
Doll’s Houses—ATM 113, 114, 115, TBC 71, 91, HMT 145, 165,
PTST 51, HFB 100, PWB 140.
Doll’s Sleigh—TC 125.
Door-Knocker—(Woodpecker)—HC 28.
Door-Stops—EWP 56, HC 24.
Dovetailed—PTST 116.
Door Zither—SAC 193.
Road—AW 106, FSW 75, FSB 102, IWFB 91.
Draining Pen—CR 224.
Dressing-Boards—FW 18, SB 81, WS 126, TH 107, WC 218. (See also under Tables.)
Dressing-Board Support—(To use with vise)—CR 327.
Dressers and Dressing Chests—MF 190, MF 19, CFB 192, WD 81,
EAF 60.
Dressing-Glasses—AF 132-136. (See also Mirrors.)
Dressing-Tables—(See under Tables.)
Drill Press—HC 20.
Duncan Phyfe—
Card-Tables—AF 87-90, 100.
Chairs—AF 151, 153.
Dining Table—EAF 70.
E
Easels—CM 10, HIB 22, HIB 276.
Egg Candlesticks—WS 180, FW 34, CR 93, CL 84.
Egyptian Fiddle—HFB 266.
Eighteenth Century—
Chair—CLK 161, 162.
Chest—CLK 195.
Foot Stool—CLK 167.
Mirror—EAF 26, 44.
Tilt-top Table—CLK 165.
Elastic Cross-Bow—(See Bow, under Guns.)
Electric Auto Trucks—HMT 132, THB 162.
Electric Freighters—BMB 91.
Electric Lamps—AC Entire.
Electric Sconce—AC 81.
Chairs—GC 45, HC 134.

Electric Lamps—Cont.
Chandeliers—AC 21, 55, CC 170.
Clusters—CC 170, PG 15.
Desk—CFB 207, CC 171, WFG 238.
Dining Room Dome—AC 25.
Drop Light Shade—AC 50.
Fixtures—AC Entire.
Floor—(Piano Lamp)—AC 65, RC X, FP 45. Woven—FVP 115.
Glazed Shades—MF 37, AC 26, 50.
Lanterns—AC 37, 42, DC 147-157, CFB 204.
Library Table Lamps—MF 8, CC 171, MF 73, FP 43, PAP 123,
JSWV 22, FG 15, JSSH 14, RC XII, PW 54, 105-107, AC
17-36, MW 303-307, CFB 213, FM 34, HFB 130, WD 124. Woven
—FVP 98, 104.
Newel Post Light—AC 75.
One-Light Bracket—AC 59, 83.
Porch Lantern—(See Lantern.)
Portable Table Lamp—AC 11, 47, MF 74. Two-Light—AC 15.
Reading—AC 32, CC 217, FM 34.
Two-Light Portable—AC 15.
Electric Launch—BMB 66.
Electric Shocking Machine—HMT 124, THB 155.
Electric Submarine Chaser—BMB 98.
Electro-Magnet Derricks—HMT 117, THB 151.
Electro-Magnet Traveling Crane—CAM 190.
Elevators—MM 127, 135.
Empire—
Bedsteads—AF 166.
Card-Tables—(See under Tables.)
Chairs—(See under Chairs.)
Chest of Drawers—AF 120.
Commodores—AF 105, 110, 115.

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Empire—Cont.
- Dressing Glasses—AF 132-136.
- Four-Post Bedsteads—AF 167, 169.
- Mirrors—AF 126-131, 140.
- Tilt-Top Table—AF 62-67.
- Envelope Holders—VTZ 61, ACR 42. (See also Stationery Holders.)
- Ewer and Single-Trees—SB 189, SW 150, RC 11, FW 96, CR 254, FSB 100, AW 46, FSW 109, IWFB 85, 86.
- Exhibit Cage, Mouse-Proof—FW 128.
- Extension Tables—(See under Tables.)

Fancywork Frame—CAM 77.
- Farmers' Livestock—FSW 96.
- Farmers' Leveling Rods—FSW 105, FWR 127.
- Farm Fence—AW 44, HFD 182, FSB 130.
- Farm Gates—(See under Gates.)
- Farm Slacks—(See under Slacks.)
- Feed Bins—(See under Poultry Projects.)
- Feed Carts—CR 247.
- Feeding Racks—(See under Racks.)
- Feed Scoop—SB 57.
- Fence, Farm—AW 44, HFD 182, FSB 130.
- Fencing Rods—MTPP 62.
- Fence Post Mold—CL 95, WS 195.
- Fernery—FWP 57, 67, 95, PW 97, 124, 132, 213. (See also under Stands.)
- Field Drag—(See under Drags.)
- Figure-Four Trap—(See under Animal Traps.)

File Handle—(See under Handles.)
- Fireless Cookers—CR 292, HHB 136, IWFB 77.
- Fireplace Basket—PW 92.
- Fireplace, Santa Claus—THB 198.
- Fire Screens—(See under Screens.)
- First Aid Kit, Boy Scout—HC 88.
- Fish Line Reels—EWP 20, TH 68, IWFB 49.
- Flag Holders—HC 86, AST 67, 68.
- Flat-Iron Holders—HIB 33, HIB 143.
- Flemish Stools—AF 145-147.
- Flicker House—(See under Bird Houses.)
- Flipper Fork—(Sling Shot Handle)—BA 72, VTZ 30.
- Float for Concreting—CR 270, FSW 252.
- Floor Lamp—(See under Electric Lamps, also under Turning.)
- Flour Box—HC 110.
- Flower Holder—IWFB 52.
- Flower Pot Bracket—LUC 63, CFB 54.
- Flower Stands—(See under Stands.)
- Flower Stick—TIH 64.
- Flower Trellises—(See Trellises.)
- Flying Airships, Gondolas, Etc.—HIB 203, HMT 102.
- Flying Propeller—HC 96.
- Flying Tops—(See under Tops.)
- Fly Screens—(See under Screens.)
- Fly Traps—SB 93, FW 62, WS 138, HC 144, PW 40, AW 16, FSB 91, IWFB 76.
- Folding Benches—(See under Benches.)
- Folding Chairs—BA 92.
- Foot Benches—(See under Benches.)
- Footmobil—(See Scooters.)
- Foot Power Jig Saw—HC 18.
FOOT POWER LOOM—TF 492.
FOOT RESTS—(See Foot under Stools.)
FOOT STOOLS—(See under Stools.)
FOOT WARMER—MF* 111.
FOUR-POSTER BED—(See under Bureaus.)
FOURTH OF JULY OUTFITS—HC 44, TBC 272.
FRAME FOR SWINGS—BA 64, HC 48.
FRUIT BASKET—VTZ 95.
FRUIT DRIERS—CL 83, CAM 327.
FRUIT TREE PROP—CR 171.

GAMES—Cont.
Animal Targets—HMG 1, HMT 143.
Bean Bag Boards—ATM 82, TC 72, MTTP 16.
Billiard Table—HMG 194.
Bird Target—HMG 9.
Bowling Alley—HMG 55.
Checker-Boards—WS 128, VD 14, ATM 108, HMG 146, 173, HC 56, MTTP 139, BA 124, CM 16, GC 49.
Checker Men—HMG 149.
Chess-Boards—HMG 146, BA 124, MTTP 139, EWW 200.
Chess Men—HMG 150.
Crokinole, Carom and Checker-Board—HMG 181.
Croquet—MTTP 64.
Dart and Target—HC 32.
Dart Board—TC 74.
Flip-it Basket-Ball—HMG 46.
Flip-it Tennis—HMG 49.
Fox and Geese—ATM 64, PW 11, ET 104, HMG 136. With Directions for Playing—CM 28.
Hearts—HC 126.
Hockey Goals—HMG 358.
Gardening Projects—Cont.

Plant Labels—TPD 1, EWP 22, TH 61, MTTP 12, EWW 193, IWFBB 50, HWFB 52.
Plant Racks—(See under Racks.)
Plant Trellis—FW 74, THB 380, GC 46, MTTP 12, EWW 201.
Potato Crate—CR 147.
Potato Marker—FW 78.
Potting Bench—CR 77.
Screened Frame for Cucurbits—CR 73, WS 165.
Seed Cabinet—FW 42.
Shrubs Label—FW 74. (See Plant Labels.)
Spotting Board—CR 69.
Stake—EWP 23, MTTP 12.
Sticks—HC 118, HWFB 40.
Tomato Trellises—FW 74, CL 86.
Transplanter—FW 74.
Trencher—CAM 320.
Wheelbarrows—(See Wheelbarrows.)
Gate-Leg Table—(See under Tables.)
Gates—

Farm—SB 193, WS 146, RC III, CR 258, AW 44, 60, FSB 130, 132, IWFBB 89, FSW 113, HDF 174, 177.
Garden—FW 50.
Yard—FW 50, WWW 135.

Goals, Basketball—BA 16, HMG 321.
Hockey—HMG 358.
Grain Bed—AW 108, FSB 104. (See also Wagon Box.)
Grain Troughs for Feeding—FW 86, CR 215, FSW 49.
Grandfather’s Clock—(See under Clocks.)
Grape Arrows—CR 176.
Gravel Bed—(Sand Box)—FW 106.

Greenhouse Bench—CR 82.
Grill for an Arch—MP 107.

Guns—

BHB 197, 415, PWB 106.
Cannons—TBC 273, WLF 17, TPD 10, T 81, HC 44. Disappearing
Crossbows—BHB 197, TBC 231, PWB 106, AB 55.
Drill—CAM 210.
Elder—BHB 203.
Machine—CAM 196.
Pistols—TBC 233, TPD 1, T 86, WLF 19, BHB 204, MTTP 22,
HWFB 92. Card Shooting—HMG 7, HMT 143. Target—HC 90.
Pop—T 30.
Potato—HC 58.
Rattle-Bang—T 92.
Siege—CAM 162.
Spring—PTST 45.
Squirt—BHB 202, HC 52.
Target Pistol—HC 90.
Toy Field Artillery—CAM 157, TBC 274.
Trench Mortars—HC 104, TBC 275.

Gymnastic Apparatus—

Basket-Ball Back Boards—BA 16, HMG 321. Standard—HMG
317, 321.
Bleachers—BA 28, 30.
Chest Weights—BA 38, ABW 254, HHH 170, HHB 254.
Dumb-Bells—BA 48, HIB 218. (See also under Turning.)
Grip Bars—BA 42, ABW 259.
Horizontal Bars—ABW 112, BA 10, HHH 175, HIB 246, TBC 243,
PTST 186.
Hurdles—BA 12.
Indian Clubs—BA 48, HIB 240. (See also under Turning.)

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GYMNASTIC APPARATUS—Cont.
Jumping Board, Spring—BA 34, 70, TBC 251, ABW 117.
Ladder—BA 46, ABW 113.
Lockers—BA 50, 52, HW 147.
Overhead Weights—BA 40.
Parallel Bars—HIB 244, BA 8, 36, TBC 245, BBC 155, PTST 89, ABW 256.
Rowing Machine—ABW 250.
Swing Trainer—ABW 115.
Twisting Rod or Grip Bar—BA 42, ABW 259.
Vaulting Horses—ABW 258, BBC 148.
Vaulting Standards—BA 14, WS 122, MTPP 128. (See also Jumping Standards.)

H
Hall Benches—MF 82, HFM 130.
Hall Clocks—(See under Clocks.)
Hall Mirrors and Racks—(See under Mirrors and Racks.)
Halloween Fun Makers—HC 126, MTPP 96, HWFB 94.
Hall Rack with Mirrors—(See Racks.)
Hall Seats—(See under Seats.)
Hall Trees—(See Costumers.)
Hammer Handles—(See under Handles.)
Hammock Frame—FW 48.
Handles—
Axe—RC III.
Chisel—MW 103, 105, 107, 113, AE 43.
Hammer—SB 149, MW 149, 151, RC III, CL 73, FW 15, FM 3, FSW 71, CC 186.
Hatchet—CL 73, SB 149.
Pick—FW 15, RC III.

HANDLES—Cont.
Scratch Awl—MW 111.
Screw Driver—MW 145, 147.
Sledge—FW 15.
Turning Chisels—MW 115, AE 43.
Vise—FWR 123, FW 16, MW 143.
Handkerchief Box—(See under Boxes.)
Hand Looms—SB 33, TF 491.
Hand Mirrors—(See under Mirrors.)
Hand Saw Filing Clamp—FSB 67.
Hanging Baskets—(See Baskets.)
Harmonograph—SAC 103.
Harness Racks—(See Racks.)
Harp, Aeolian—HFB 267.
Hat and Coat Rack—(See under Racks.)
Hatnut Handles—Cl. 73, SB 149.
Hatpin Holders—CAM 39, MW 211-213.
Hay-Racks—(See under Racks.)
Hay-Rack and Manager—CR 209.
Heliograph—HC 94, AB 147.
Hen's Nest—(See under Poultry Projects.)
Heplewhite—
Bookcase—AF 182-183.
Card Table—AF 97, 99, CF 22, FP 17.
Chairs—CF 44.
Herbarium Press—OBC 125.
Hickory Furniture—FP 162-170.
High-Boy, Queen Anne—AF 113.
High Speed Drill—HC 82.
Hockey Goals—HMG 338, Sticks—MTPP 72.
Hog Chutes—(See Loading Chutes.)
Hog Crates—(See under Crates.)
Hog Feeder, Ohio, Self—CR 198, 200, FWR 91.

52
Hog Houses—WS 182, AW 125, TF 426, HFD 103, FSB 246.
Iowa Gable-Roof—CR 193.
Hog Hubble—CR 185.
Hog Pen, Knock Down—CR 186.
Hog Racks—(See under Racks.)
Hog Troughs—WS 185, FW 84, CR 181, FSB 145.
Home Made Anvils—HFD 10, FSB 290.
Homemade Planks, Baseball—BA 24, HMG 267.
Horns, Boatman’s—JAT 139. Wabash—JAT 143.
Horse Barrow—ATM 79.
Horses—
Saw—MT 185, SB 145, FW 12, DP 21, IWF 75, MTRS 36, JSHM 1, HW 100, WS 144, CL 65, HFD 13, AW 74, RC TV, CR 312,
TBC 9, HHB 36, FWR 45, GC 33, FSB 49, 51, 69.
Shaving—HFD 12.
Take Down, For Tables—FW 43, FSB 61.
Tenter—BA 69.
Toy—(See under Toy Animals.)
Hose Nozzle Holder—GC 44.
Hot-Bed—(See under Gardening Projects.)
House Boats—(See under Boats.)
House Numbers—WLF 2.
House Screens—(See under Screens.)
Hurdles—BA 12.
Hygroscope—T 59.
Ice Boats—(See under Boats.)
Ice-Scooter—(See under Scooters.)
Implement Sheds—AW 126, TF 426, FSW 250.
Indian Clubs—(See under Turning.)

INK STANDS—(See under Stands.)
INSET CAGES—BA 100, BHB 243.
INSET MOUNTING-BOARDS—MTP 104, BHB 242, PIW VII 12, BA 100.
IRONING-BOARDS—FW 64, WS 114, IWF 79, PAP 137.
Child’s—TC 49-53.
Clamps to Table—AW 34, FSB 82, MTRS 42.

J
JACOBSEN CUPBOARD—AF 176.
JACOBSEN WRITING DESK—AF 116.
JARDINIERE (Plant Tube)—IUC 100, CFB 227, VTZ 112, CAM 312.
JARDINIERE STANDS—(See under Stands.)
Jig for Making Apple Boxes—CR 172.
Jig Saw, Foot Power—HC 18.
Jitney—ATM 99.
Jumping Boards—BA 34, 70.
Jumping Jacks—(See under Toys.)
Jumping Standards—(See under Gymnastic Apparatus.)

K
KEY RACKS—(See under Racks.)
KEY TAG—TH 62.
KIDDE KABS—RC I ATM 90, 91, 92, TC 113, HFB 231.
Trailer—ATM 70.
KIDDE ROASTER—TC 116.
KITCHEN ORDER PAD—VTZ 20.
KITCHEN SINK—FW 70.
KITCHEN STOOLS—(See under Stools.)
KITCHEN TABLES—(See under Tables.)
KITES—CAFK entire, KC entire, ET 58, BHB 3-27, 383, PWB 124,
T 50, HMT 9, HC 109, ABW 104, THB 296, PTST 23, HFB 56,
OBC 132, 143, PAP 51.
Aeroplane Models—KC 103-107, 112-120, BMA entire. (See also under Models.)
Kites—Cont.
Animal Forms—KC 35-38, OHB 75.
Arrow—KC 50.
Auto—KC 36.
Banner—KC 62, CAFK 19.
Bibliography—(78 Books)—KC 142.
Bird—KC 33, 54.
Boat—KC 31.
Box—SB 37, T 51, 54, HC 100, KC 39-47, PAP 51, HWFB 58, PWB 129, THB 302, HMT 12, PTST 29, ABW 108, AB 236, CAFK 15, 20, OBC 149.
Boy—BHB 10, KC 36, CAFK 18.
Butterfly—BHB 13, KC 32, CAFK 18.
Cannibal—OHB 79.
Circular—KC 30, 47.
Combined—Box and Plane—KC 48-60.
Compound—OHB 64, CAFK 8.
Coyne—THB 296, KC 48, HC 101, OBC 146.
Decorations—KC 61-68.
Dragon—CAFK 22.
Fish—BHB 13, KC 51.
Flower—KC 62.
Frog—BHB 11.
Gilders—KC 101-111, CAM 230, BMA 31, 36, MTPP 100, HWFB 46.
Hagrave—OHB 61.
Hexagonal—KC 46.
Holland—BHB 384.
Japanese, Square—BHB 4, 21, KC 28, 62.
King Crab—BHB 14.
Malay—THB 301, HMT 9, AB 231, OHB 67, OBC 143.
Man—BHB 5.

Kites—Cont.
Man-Lifting—ABW 106.
Messengers—KC 69-74.
Moth and Butterfly—KC 32, 34.
Moving Devices on—KC 75-81.
Parachutes—ABW 111, KC 95.
Plane—ABW 105.
Propellers—KC 121-126, BMA 72.
Pulley and Weight—OHB 48.
Rectangular Box—KC 41-45, HC 101.
Round—PWB 129, ABW 109.
Series of—KC 51.
Shield—BHB 18, KC 25.
Star—KC 26-29, 55, 61, BHB 19.
Steering—OHB 49.
Suspended Figures and Appliances—KC 82-91.
Tailless—KC 24, 57, BHB 384, HMT 9, PTST 26, T 51, AB 229, OHB 68, CAFK 11, 14.
Tandems—KC 53-55, OHB 71.
Tetrahedrals—KC 45-47.
Triangular—KC 44.
Tubular—ABW 109, PWB 129, KC 47.
Turtle—BHB 16.
Water—ABS 250.
Woglo—OHB 69.
Woman—BHB 8.

Kite String Reels—T 103, MT 161, PW 26, KC 97-102, EWP 114, OBC 154, THB 307, HMT 17, PTST 32.
Knife and Fork Box—(See under Boxes.)
Knife Strap—EWP 18, BMT 5.
Knitting Baskets—HC 108.
LADDERS—RC II, FWR 71, FSB 129, 200, IWF 81.
Chair—CFB 94, TF 425.
Combination—FSW 89, CAM 69, TF 424, 425.
Fruit—AW 68, 84, FW 76, FSB 200, 209.
Gymnasium—AWB 113, BA 46.
Orchard—CR 165, 169, FWR 109, 113, AW 68, HF 415, FSB 197.
Revolving—BA 62.
SPP 10, TF 424, CAM 69, PTST 168. Child’s—TC 59, IWF 82.
Truss—HF 150.
LAMPS—Oil—MF 91, ABW 211. (See also Electric Lamps.)
LAND BOATS—PTST 104, AB 215.
LANIERS—(See under Electric Lamps.)
Larvar Breeding Box—BH 204.
Laundry Ranges—FG 11, CC 139.
Laundry Stick—EWP 58.
Lawn Swing—MF 47.
Lawn Tennis—Court Backstop—HMG 303.
Lawn Tennis—Court Marker—HMG 204.
Leg Rests—HC 136, PW 141, GC 84, PF 28, CC 191, SW 9, FM 8.
Letter Holders—WS 108, EWP 92. (See also under Racks.)
Tray—EWP 76.
LEVEL—JAT 74, THB 69. Farmer’s FSW 96.
Leveling Rod—FWR 127, FSW 105.
LEVEL—SQUARE—FSW 10, HF 14.
Library Tables—(See under Tables.)
Light Screens—(See under Screens.)
LINE HOLDER—FSB 128.
Linens—Chests—(See under Chests.)
Loading Chutes—CR 206, WS 186, FW 90.
LOCKERS—BA 50, 52, HW 147.
LOG BASKETS—(See under Baskets.)
LOG CABIN—ABW 19, TBC 186, AB 254, 259.
LOOKING-Glasses—(See Mirrors.)
LOOMS—MT 185, PW 226, TF 492.
Hand—SB 33, TF 491, MT 84, Roller—MT 132.
LUMBER RACKS—(See under Racks.)
M
MAGAZINE RACKS AND STANDS—(See under Racks and Stands.)
MAGNETIC LANTERNS—HIB 203, HFB 148, BHB 345.
MAIL BOX—VTZ 48.
MAIL BAGS—DC 115-121, CR 311. (See also under Turning.)
MANGER AND STALL—CR 210, 232.
MARINE TELESCOPE—ABW 34.
MARKING GAGE—GC 70.
MARTEN HOUSES—(See under Bird Houses.)
MATCH BOXES—(See under Boxes.)
MATCH SAFES—HIB 63, ABW 243, WFG 199.
MATCH STRIKERS—EWP 82, VTZ 20, PAP 23, IWF 49, IW 15, EWP 165, WFG 198.
MASSING BOXES—CW 66.
MEASURING BOX FOR CONCRETE—CR 269.
MECHANICAL MOVEMENTS, MODEL OF—MM 219.
MECHANICAL TELEAUTOPHOT—SAC 94, MM 91.
MEDICINE CABINETS—(See under Cabinets.)
MERRY-GO-ROUND TOY—(See under Toys.)
LARGE, WINTER—ABW 167.
MILK BOTTLE HOLDER—EWP 70.
MILK RECORD CASE—CR 245, AW 79, FSB 179.
MILK STOOL—(See under Stools.)
MILK TEST BOTTLE HOLDER—FWR 79.
MILK WAGON, TOY—ATM 14, 74.
MINIATURE GREENHOUSES—CAM 301, 307.
MINIATURE THEATRES—HIB 259, TBC 303, THB 208, JAT 278.
Minstrels—ET 30.
Mirrors—AF 126-140, WWR 139, WD 21, 75.
   Bathroom—CFB 42, TH 104.
   Colonial—CF 48.
   Eighteenth Century, Mahogany—EAF 26, 44.
   Empire—AF 126, 131, 140.
   Georgian—CLK 9.
   Half Rack and—FM 29, CFB 103, PW 134, WWR 137, CC 173,
   PG 15, VTZ 94, IA 34, 134.
   Hand—WWR 96, 128, ACB 63, SB 169, PIW 1X 8.
   Old Fashioned—CR 50, FP 41.
   Oval—AF 137.
   Shaving—RC VI, TH 103. (See also under Turning.)
Mission Chairs—(See Chairs.)
Miter Box—(See under Boxes.)
Models—
   Aeroplanes (Will fly)—ABW 93, 99, HHB 297, KC 103, 112, CAM
   224, THB 263, HMT 21, BMA entire.
   Boats—(See under Boats, Model.)
   Elevators—MM 135.
   Grain Elevators—MM 127.
   Hydro-Aeroplane—ABW 85, THB 283.
   Mechanical Movements—MM 219.
   Motor Bus—MM 19.
   Pile Driver—ABW 267.
   Steam Engines—HFB 301, HC 50.
Mole Trap—BHB 214.
Moiris Chairs—(See under Chairs.)
Motif Trap—(See under Traps.)
Motif Tray and Mounting-Board—BA 100, PIW VII 12, OBC 123.
Moto-Kar—ATM 105.
Motor Boats—(See under Boats.)
Mouse Proof Cage for Agricultural Exhibits—FW 128.

Mouse-Trap—HC 120.
Mouse-Trap Shooter for Targets—HMG 15.
Musical Push Pipe—HFB 260.
Music-Cabinets—(See under Cabinets.)
Music-Racks—(See under Racks.)
Music-Stands—(See under Stands.)
Music-Stools—(See under Stools.)

N
Nail and Screw Cabinets—HW 145, FW 24. (See also under Boxes.)
Nail and Screw Trays—SB 161. (See under Boxes.)
Nail Boxes—(See under Boxes.)
Necktie Racks—(See under Racks.)
Neckyokes—FW 96, CR 253, CL 73, RC II.
Newspaper Baskets—CFB 129, PW 108.
Newspaper Racks—(See under Racks.)
Numerals—WLF 2.
Nut Bowls—(See under Turning.)

O
Oats Sprouters—CR 107, AW 81, WS 179, FW 33, FSB 211.
Oilstone Base—CR 297.
Orchard Ladders—(See under Ladders.)

P
Packing Tables—(See under Tables.)
Pail Stand—(See under Stands.)
Panorama Show—JAT 278.
Panographs—SAC 91, PTST 78, HFB 122, ABS 53.
Paper Baler—CAM 57.
Paper-Knives—CAM 37, TH 97, CM 46, IA 122, IW 20.
Paper Racks—(See under Racks.)
Parallel Bars—(See under Gymnastic Apparatus.)
Pea Shooter—HC 96. (See also Bean Shooters.)
Peck Measure—LUC 18, CFB 14, CL 34.
PEDESTALS—PG 17, PIFM 20, CC 177, 218, WS 128, RC VIII, 438, FM 35, MF 3, FD 22-39, WFG 147. (See also Flower Stands and Taboretts.) Cupboard—MF 96.

PEN AND INK STANDS—(See under Stands.)

PEN AND PENCIL HOLDERS—EWP 46, 104, VTZ 22.

PENCIL BOXES—T 39, ACB 45.


PENDULUM OF GALILEO—MM 184.

PEN TRAYS—(See under Trays.)

PERCOLA—BA 120.

PERISCOPE—TC 47, CAM 284.

PHONOGRAPH—

Adam—PCn 36.

Craftsman—PCn 40.

Gothic or Renaissance—AF 190, PCn 30, FP 27.

Home-made—SAC 200, PTST 207.

Period—FP 29.

Porter 9 or Picnic—PCn 20, FP 27.

Queen Anne—PCn 34.

Record Cabinets—PCn 12-20, Jacobean—AF 183-186.

Renaissance—PCn 30, AF 189.

Sheraton—PCn 38.

William and Mary—PCn 32, 53.

PHONOGRAPH DANCER—HC 150.

PHONOGRAPH SOUND AMPLIFIERS—PCn 43-46.

PHOTOGRAPH FRAME—CM 40. (See also Picture Frames.)

PHOTOGRAPHIC—

Dark Room—TBC 153.

Enlarging Apparatus—HFB 148.

Negative Washing Rack—TBC 159.

Print Frames—PIW IX 6, MTTP 46.

PHONOGRAPH—BHB 314.

PIANO BENCHES—(See under Benches.)

PIEZ HANDLES—FW 15, RC III.

PICTURE FRAME CLAMPS—DC 59, HW 168.

PICTURE FRAMES—DC 65-82, SB 129, HW 168, HWFB 82, GC 82, TPD 1, EWW 188, 207, EC 237, PG 15, JSHM 13, VTZ 96, PTST 145. (See also under Turning.)

Carved—CM 38, TH 98, ACB 37.

And plate rail—SSP 8, CC 174.

PICK GLASS—AF 139.

PIGEON HOLES FOR DESKS—PP 62, 66, CAM 99, IA 142.

PIGEON HOUSES—FW 112, BA 114, AW 124, HHH 402, PTST 114, OBC 76.

PIGEON LOFTS—JAT 54.

PIN PLAIN—SAC 192.

PLANE TABLE AND LEVELING ROD—FWR 127.


PLANT BOXES—(See under Boxes.)

PLANTING BOARD—CR 160.

PLANT LABELS—TPD 1, EWP 22, TH 61.

PLANT PRESS—BA 102.

PLANT RACKS—(See under Racks.)

PLANT STANDS—(See under Stands.)

PLANT TRENCHER—CAM 320.

PLANT TUBS—CAM 310, 312. (See also Jardiniere.)

PLATE-RACKS—(See under Racks.)

PLATE-RAILS—HIB 348, SSP 8.

PLATE-WARMER—THB 80.

PLAYGROUND APPARATUS—(See also Gymnastic Apparatus.)

Circle Swing or Revolving Ladder—BA 62.

Horizontal Bars—ABW 112.

Jumping Boards—BA 34, 70, TBC 251.

Parallel Bars—(See under Gymnastic Apparatus.)

Slides—BA 57.

Swing Frames—BA 64, HC 48.
Playground Apparatus—Cont.

Swings—(See Swings.)
TeeTotters—FWR 68, ATM 106, BA 60.

Playhouse—BA 84.

Plow—JAT 75, THB 68, HHB 153, TBC 12.

Pony Kar—ATM 92.

Pop Gun—(See under Gun.)

Porch Boxes—(See boxed under Boxes.)

Porch Lanterns—(See under Electric Lamps.)

Porch Swings—(See under Swings.)

Potato Crates—CR 147.

Potato Sorter and Cleaner—HFD 247.


Bantam Coops—JAT 54, BA 112.


Carrying Crates—FWR 78, FSB 162.

Catching Hook—FWR 79.


Chicken-Crates—FW 74, FWR 78, WS 181, FSB 165.


Chicken House—FSW 276.

Colony Houses—AW 120, PA 24, FSB 243.

Dry Mash Hoppers—CR 99, 101, 111, FWR 76, WS 178.

Feed Bins—CR 96, FWR 74, CL 58, FSW 56, FSB 155, 157.

Feeders—CR 109, CL 83, 89, EWP 74. Trays—WS 178. Troughs—

*Grange Todd & Co.

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Poultry Projects, Feeders—Cont.

CR 95, FWR 72, AW 14, WS 179, MTRS 16, Grit and Shell—CR 109.


Portable Run-way for Coop—CR 117, 121, AW 42, 55.

Show Crates—FWR 78, FSB 162.


Watering Troughs—FW 32, FWR 72.

Pressing Board—VTZ 34, PiW VII 12.

Printing Frame, Photographic—PiW IX 6.

Printing Press, Lever—HIB 220.

Projector—(See Reflectoscope.)

Prop for Fruit Trees—CR 171.

Procession—THB 298.

Pulleys—CSW 14, PT 22.

Punching-Bag Frame—(See under Gymnastic Apparatus.)

Pushmobile—HIB 364, PTST 11, OBC 1, 10.

Push Wagon—HIB 376.

Puzzles—

Ball—ET 108.

Disc—ET 108.

Magic Stick—HWFB 107.

Nine Man Morris—(See under Games.)

Picture to Assemble—TC 27, CAM 18, MTPP 44.

Policeman’s—HFB 227.

Prism—CAM 21.

Ring—PT 23.

Shark—ET 16, HC 102.

Solitaire—(See under Games.)

*DuBelday, Page & Co.
Puzzles—Cont.
Square—CAM 20.
String, Mysterious—HC 102, ET 16.
T-Blocks—CAM 19.

Queen Anne—
Chest of Drawers—AF 118.
Clock, Grandfather’s—AF 175.
Gate-Leg Table—AF 42.
High-Boy—AF 113.
Phonograph—PCn 34.
Side Table—AF 70.
Stool—AF 141-144.
Quilt Frame—FSB 80.

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Rabbit Hutch—BA 108, CR 266, HHB 391, PTST 126.
Rabbit Trap—(See under Animal Traps.)

Racks—
Bicycle—BA 32, 54.
Book—LUC 56, CFB 47, 88, 171, VTZ 59, 83, 84, 92, 102, WC 228,
FM 6, JSWW 20, EWW 182, 189, 195, 203, 205, WFG 112A,
151, 164, 168, 172, EC 99, TH 109, HHIB 105, 107, THB 99,
BBC 129, PIW IX 15, SSP 9, HIB 306, 315, WWR 46, SB 77,
CC 139, 180, 189, BMT 50, WD 2, 8, 9, WS 168, WW 223, MF
74, MF 27, HW 186, RC I, V, IX, PIW IX 14, 15, PG 14, CR
266. Adjustable—GC 59. Folding—SSP 9, PAP 129. Revolving
—WFG 225. With Clock Case—CFB 88. Woven—FWR 73.
Bottle—HHB 141.
Broom and Dust Pan—TBC 50.
China—CC 176, 213, PG 17, FM 30.
Clothes—WS 112, THB 83, FSW 36, PTST 163, MT 177, IWFB 80.
Corn—(Fodder) FSW 118, HFD 164.

Racks—Cont.
Dish Cloth—SW 133, WS 112.
Drill and Bit, Portable—CR 300.
Egg—CAM 43, 47.
Ensilage—AW 98, FSB 115.
Feeding—For Cattle—AW 102, FSW 122, FSB 135, CL 87. For
Hogs—FSB 137, AW 109. For Sheep—CL 79, 92, FWR 92-95,
FSW 49, FSB 143, CR 222, HFD 94.
File—CR 301.
Plat Iron—HHB 143, 144, HIB 33.
Fruit Can—FWR 52, WS 167, MTRS 18.
Gun—VTZ 85.
Hall with Mirror—CFB 103, PG 15, VTZ 94, CC 174, 212, WD 22,
FM 29.
Harness—SB 101, CR 228, 230, FWR 105, CL 65, FSW 227, FSB
191.
Hat and Coat—TH 68, PIW VII 1, PG 10, VTZ 17, 18, 92, EC 239,
CC 134, PIFM 24, JSWW 5, WWR 66, 137. (See also
Costumer.)
Hay—FW 110, RC 111, DP 12, FWR 80-83, AW 88, 104, FSW 280,
FSB 111, 113, 117.
Hay Fork—WS 152.
Ice Pick and Ice Chisel—HHB 148.
Indian Club and Dumb-Bell—HHB 177.
Key—VTZ 18, 81, TH 80, THB 104, PG 10, CC 135, PIW VIII 3,
EWP 16, HHB 183, EW 187, IWFB 48.
Kitchen Tool—CAM 65.
Letter—THB 111, HC 112. (See also Stationery Case.)
Lumber—CR 314, FWR 28, FSB 63.
Magazine—SB 261, HIB 313, VTZ 59, 60, 114, WWR 141, PIFM 27,
28, WFG 166, HHB 120, EWW 208, WD 11, THB 99, MF
55.
RACKS, Tooth Brush—Cont.
EWW 178, HC 146, IWF 59, 70.

Towel—TH 87, 99, TBC 70, HHB 107, PIW IX 11, EWP 64, EWW 191, HC 92, PAP 31.


Watch and Key—VTZ 81, PAP 23.

RAFTS—(See under Boats.)

RAILWAYS, Toy—MM 24.

READING CORNER—ABW 199.

RED CROSS Truck—HC 68.

REED Baskets—PW 137.

REED BOTTOM Stools—(See Woven under stools.)

REFLECTING Drawing-Board—HFB 123.


RENAISSANCE Phonographs—(See under Phonographs.)

REVOLVING Ladder—BA 62.

ROAD Drag—(See under Drags.)

ROBIN House—(See under Bird Houses.)

ROCKERS—(See under Chairs.)

ROCKING Pony—PAP 35.

ROMAN Seats—(See under Seats.)

ROOT Study Case—FWR 125, MTPP 86.

RUNNING Wheel—T 73, MTPP 20, 24.

RUSH Seats—(See under Seats.)

RUSTIC Furniture—BBC 168, CFB 218, OBC 257.

Baskets—(See under Baskets.)

Bench—CFB 219,

Bird Houses—(See under Bird Houses.)

Boxes—CFB 229, BBC 179, PTST 177.

Chairs—(See under Chairs.)
Fern Baskets—CFB 225, LUC 96.
Flower Tubs—LUC 94, CFB 224.
Lounge—ABW 292.
Stands—CFB 218.

SACK HOLDERS—FW 8, HFD 110.
SAIL BOATS—(See under Boats.)
SAIL CART—ABW 77.
SAIL WAGON—THB 356, OBC 27.
SALT BOX—(See under Boxes.)
SAND BOX—(See under Boxes.)
SAND MOTOR—CAM 170.
SANDPAPER BLOCKS—TH 65, TBC 12, WS 106, JSSW 3, WFG 104.
SAND SCREEN—CR 270.
SAND SHovel—TH 76.
SAND TOYS—CAM 170.
SANTA CLAUS AIRSHIP—THB 193.
SAVINGS BANK—PAP 39.
Saw Brackets (For holding Coping Saw Work.)—ET 7, AST 11,
TC 21, WWB 55, HWPB 15.
Folding—FSW 27.
Saw Filing Clamps—CR 307, FWR 47.
SAWSHARPERS—(See under Horses.)
SCALES—MT 185.
SCARF PIN AND COLLAR BUTTON HOLDER—HC 134.
SCONCES—PW 68, FM 61, CFB 202.
Scoop—SB 57.
Scooters—ATM 88, ABW 79, 80, PTST 15, BA 68, GC 61, OBC 21.
Ice—ATM 93, HMG 378. Water—OBC 331.
Scouring Board—PG 12, CC 143.
SCRAP BASKETS—(See under Baskets.)

SCREENS—PW 88, 224, PIFM 29, MF 95, FD 64-68, CC 210, RC XVIII,
IA 24, 68, FWW 199.
Fire—HIB 332, WD 26.
House—(See Fly.)
Light—WC 220, HIB 331, TH 114, HFSM 174, MF 71, 94, FM 27,
PW 88, 224, 226, EC 228, WD 80.
Sand—CR 270.
Sewing—PIFM 30, WFG 181.
Shoe—HIB 334.
Telephone—GC 64, HC 152.
SCREEN DRIVER HANDLES—MW 145, 147.
Bee Hive—AW 66.
Corner—ABW 200, BBC 134.
Dressing Table—CFB 200.
Hall—ABW 218, PIFM 33, CC 206, MF 107, 115, MF 83, IA 134,
142, WD 66, EC 165.
Lawn or Porch—AW 76, FSB 89.
Roman—MF 67, RC 441, CC 206, FM 23.
Rush—PW 153.
Rustic Garden—PTST 161, CFB 220.
Shoe Box—HIB 339, 346.
Spring Wagon—PW 102, CR 259.
Telephone—CFB 108. (See under Stools.)
Upholstered—FU 38, 53, JSSW 31. (See also under Stools.)
Window—MF 65, HIB 327, 344, ABW 201, TBC 64.
Woven—PW 209, WW 313.
SEATS AND CHESTS COMBINED—FD 68.
SEED CABINET—FW 42.
SEED CORN RACK—(See under Racks.)
SEED Fiat—CAM 298, CR 65.
SERVING TRAYS AND TABLES—(See under Trays and Tables.)
Settles—MF 70, CFB 178, PCM 318, MF 67.
   Hickory—PW 166, 169.
   Settle—HIB 30, 274, 340, PCM 321, WD 70. (See also Tip Settle)
   Sewing Baskets—(See under Baskets.)
   Sewing Cabinets—(See under Cabinets.)
   Sewing Chair—(See under Chairs.)
   Sewing Companion—HC 116.
   Sewing Horse—FSW 79.
   Sewing Table or Stand—(See under Tables and Stands.)
   Sheeting Cabinets—(See under Cabinets.)
   Sheep Feeding troughs—CR 215, FSW 49. (See also Racks.)
   Shelves—TBC 67, PIW VII 4, WWW 260, BBC 129, HW 185, HIB 305, 319.
   Bird Nesting—CFB 245. (See also Bird Feeders and Shelters.)
   Book—FD 58, MF 56, HIB 25, 305, 308, 310, WC 216, ABW 208, 235, SW 33, SB 137, WS 110, EWP 100, VTZ 63, PIW IX 4, PIFM 25, 28; with Desk—CFB 81, ABW 235, HTS 155; with Spools—TBC 67.
   Bracket—SB 61, MT 173, HW 186, TH 82, MT 173, EWW 174, 178, 198.
   Clock—EWP 60, LUC 59, CFB 32, CAM 64, HIB 105, 184, HIB 329, WFG 119, JSSW 10. Combination ABW 241.
   Closet—THB 78.
   Corner—HIB 26, 305, TH 88, HIB 184, BBC 137, EWW 194.
   Fruit and Fruit Can—FSW 81.
   Lock—HIB 353.
   Table or Desk—PG 14, CC 165, CR 286.
   Wall—MF 50, FM 10, PTST 158, PG 14, CFB 86, HIB 25, 305, 308, HW 185, CC 164, 193, WFG 114, 117.

SHERATON
   Breakfast Table—CF 14.
   Bureau—CLk 3.

SHERATON—Cont.
   Card Tables—CF 10, AF 95.
   Chairs—AF 154, 155, CLk 161.
   China Closet—AF 178.
   Commode—AF 110.
   Four-Poster Bed—AF 168.
   Gate-Leg Table—AF 45.
   Phonograph—PC 38.
   Pier Glass—AF 139.
   Work Table—CF 12.
   Writing Desks—AF 123, IA 73.
   SHINNY STICKS—MTTP 72. Shin Guards—MTTP 72.
   Shipping Crates—(See under Crates.)
   Shoe Horn and Hook Holder—VTZ 32.
   Shoe Polishing Boxes—(See under Boxes.)
   Shoe Screen—HIB 334.
   Shooting Board—HHB 41.
   Shoot the Chute, Acquatic—ABW 74.
   Shop Tool Case—SB 225.
   Shoulder Weight Carrier—CL 73.
   Sideboards—Pendleton—EAF 19. (See also Buffets.)
   Side-Hill Railway—MM 53.
   Signal Lantern—THB 336, Heliograph—AB 147, HC 94.
   Silhouette Camera—HC 114.
   Silk Wedge—TH 67.
   Silo Forms—AW 117, FW 124, FSB 245.
   Sink Drain—PW 23.
   Skatemobile—THB 352.
   Skate Sharpener—HC 48.
   Skating Sails—ABW 174, THB 368, AB 21, 26, OBC 388.
   Ski Gleer—ABW 181.
SKIES—BA 76, RC I, BHB 279, ABW 179.
Skee Sled—BA 78.
Ski—RC I, AB 42, OBC 397.
Ski Skipper—TC 122.
Ski Sledger—TC 119.
Ski Marker—EWP 116.
Sled—Hammer Handle—FW 15.
SLED—
Barrel Stave—BHB 275.
Bicycle—ABS 267.
Bob—BA 82, CAM 275, ABW 160, PTST 97, HC 80, HCB 62, HHB 290, OHB 480.
Chair-Sleigh—BHB 275.
Coaster—SB 141, WS 114, RC I, WFG 246, FWR 70, PW 38, ATM 95, 96, ABW 158, TBC 296, HHB 287, 290, THB 258, FSB 239, OBC 169, PTST 94. Single Runner—THB 261, ABW 162, OBC 172.
Saw Horse—ABW 166.
Seed Corn—FW 44.
Single Runner Coaster—THB 261, ABW 162.
Skeg—BA 78.
Straddle-Bug—ABW 163.
Tank—Snowball—HMG 373.
Wagon—ABW 165.
SLEEVES BOARD—PG 11, SB 113, WS 114, PIW VII 3, SSP 9, EWW 193, CC 140, LUC 49, CFB 38, TH 90, HHB 145, IWFB 63.
SLIDE BOARD—BA 57. For Water—OBC 341.
SLIPPER BOX—(See under BOATS.)
SMOKING STANDS—(See under STANDS and CABINETS.)
Snow Ball Mortar—HMG 367.
Snow Plow—CR 264, TBC 169.
Snow Scraper—TBC 170.

SNOW SHOVELS—HC 98, TBC 171, TC 46.
Snow Tank—(Sled)—HMG 373.
Soap Holders—LUC 16, CFB 12, PAP 31.
SOIL SIEVE—FWR 125.
Solitaire Board—(See under GAMES.)
Sonometer—Sac 191.
Sparrow Traps—(See under TRAPS.)
SPOOL PROJECTS—CAM 33, TBC 67, HMT 196.
SPOOL REEL—EWP 118.
Spring Board—(See Jumping Board under Gymastic Apparatus.)
Spring Seats—(See under Seats.)
SQUIRE CHAIR—(See under Chairs.)
Squirrel Cage—BA 110.
STANCHION—(See Cow STANCHION.)
STANCHION AND MANGER—CR 243.
STANDS—RC VI.
Bedside—MF 112, CFB 146, 196.
Berry—FWR 117, FSB 219.
Blacking—LUC 67, CFB 57, IWFB 83. (See also Shoe Polishing under Boxes.)
Book—CFB 131, PIW IX 5, MF 41, CC 201, GC 57, FM 18.
Cabinet—ABW 224.
Chafing Dish—MF 35, FM 46, CC 229, PIFM 29.
Christmas Tree—HC 140, BMT 171.
Dictionary—MF 43, CFB 137.
Empire—AF 67.
Fern—FW 133, MF 17, PF 40. (See also FERNERY.)
Flower—LUC 72, CFB 62, VTZ 94.
Flower Pot—SB 173, PIW VIII 2, VD 46, CFB 62, PW 14, DC 97.
Garden—CFB 218.
STANDS—Cont.
Ironing—VTZ 21.
Jardiniere—CC 204, SB 249, CFB 227, EWW 206, FM 21.
Light—CC 207, FM 24.
Magazine—MF 42, WWC 84, GC 57, MT 203, MF 43, 55, 102, WD 10, 12, 13, FM 22, CC 205, SB 261, PIFM 23, 27, PG 14, RC V, IX, CFB 133, WC 228, CAM 118, HFM 31, 92. Table—MF 24, MF 43. Woven—FWP 82, PW 102, 125.
Match Box—EW 102.
Medicine—MF 112. (See also Cabinets.)
Music—CFB 119, MF 55.
Paint—FWP 24.
Pen and Ink—FWP 90, PW 13.
Plant—MF 109, HOB 110, 114, PIFM 21, CC 204, WFG 176, WS 118, VTZ 96, 102, 105, 112, RC XVI, WW 238, 256, HFM 70, TH 72, 83, CAM 116, 311, ABW 232, FP 7. Woven—PW 27. (See also Tarboards.)
Rustic—CFB 218.
Sewing—FWP 31, 80, CFB 135, CAM 79. Woven—FWP 61, PW 214, 216. Pelican—ET 84, AST 69. (See also under Cabinets.)
Shaving—MF 89, CFB 163. (See also under Cabinets.)
Small—WW 218, AF 66, ABW 227.
Smoking—MF 43, PW 71, RC VI, CAM 117, DC 98, HFM 166, WD 14. (See also under Turning.)
Suit Case—CFB 93.
Teakettle—EAF 31.
Corner—CFB 101. (See also under Tables.)
Test Tube—FWR 124.
Tub—IWFB 71.
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STANDS. Umbrella—Cont.
PTST 171. (See also Racks.)
Wash—RC XXII, CFB 194.
Watch—VTZ 81, CAM 52.
Water—CR 104.
Stationery Cases—PW 68, CFB 40, 44. Holder—PW 18, CFB 40, PIW VII 6. With Ink Stand—EWP 106, LUC 54. (See also under Boxes.)
Steam Engines—HC 50, SAC 247.
Model—HFB 301, 6 C, P—HC 50.
Steering Gear for Wagon—ABW 81.
Stenciled Furniture—CLK 17.
Step Bench—HIB 18.
Step Ladder—(See under Ladders.)
Steps—FW 52.
Stereoopticons—HIB 203.
Stilts—BA 68, TC 91, PTST 35, OHB 102, MTTP 70, OBC 41. Adjustable—ATM 87.
Stone Boat—WS 152.
Stock Chute—(See Loading Chutes.)
Stock Watering troughs—CR 231, FWR 126.
Antique—AF 141, 145.
Camp—SB 75, BA 92, CG 56, PTST 148, RC I, EWW 190, IWFB 69, PAP 131.
Canal—WW 313, VD 78, GC 41, SW 33, JSWW 30, WFG 155.
Child's—VTZ 83.
Desk, with Box Top—CAM 102.
Flemish—AF 145.
Flower Pot—VD 46.
Foot—VTZ 45, 60, 61, 104, 110, WC 212, TH 102, FM 5, WFG 122.
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STOOLS, Foot—Cont.

ABW 244, PIFM 23, JSWW 21, EC 120, SB 209, CC 162, 188,
PG 14, PF 20, 25, 31, HHB 114, EWW 199, 204, MF a 59, 101,
LUC 64, SB 209, IA 66, FU 21, 28, PW 95, 154, 172, 210, 220,
PIW VII 7, IX 9, CFB 56, HIB 342, RC VII, EWP 36, WD 3.
Martha Washington—FF 29. Woven—FWP 86, PW 95, 127,
SW 63.

Hickory—PW 163.

Kitchen—AW 58, VTZ 46, FSB 77.

Low—PT 25, FU 16, 46, FM 9, HW 187, CC 192.

Milk—CL 64, SB 97, AW 32, FW 94, CR 237, FWR 59, 61, HFD
89, 90, FSB 147, 149, MTRS 30, IWF 69.

Music—PCM 317.

Ottoman—PF 22, 24, 31.

Padded—SSP S. (See also Upholstered.)

Queen Anne—AF 141.

Reed Bottom—SW 64, 67, 70.

Step Ladder—CAM 69.

Telephone—IA 69, CFB 107, MF a 112, ABW 231, SB 265, WD 29.

Upholstered—PFM 111, PIFM 22, 23, BU 6, 16, 22, 28, 36, 46, 48, 49,
WFG 126A, FM 5, 7, 11, MF a 59, CC 190, 194, TF 460, TH 102.

FP 13, PW 220, JSWW 21, EC 124.

Woven Seat—SW 33, 50, 54, 64, SSP 6, VD 78, DC 114, GC 41, PW
154, 160, 205, PIFM 22, EC 130.

STOVE TRUCK—BBC 119.

STRING CUTTER AND WINDER—HC a 106.

STRING HOLDERS—MT 161, CL 48, IWF 17.

STRING MACHINE—T 105.

STUDY TABLE—(See under Tables.)

SUBMARINES—(See under Boats.)

SUMMER HOUSE—PTST 182.

SUN-DIAL—ACB 30, ABS 219.

SWALLOW HOUSE—(See under Bird Houses.)

SWING BOARDS—VD 24, FW 60, CFB 10, VTZ 19, CL 48, LUC 12,
WFG 121.

SWINGS

Circle—BA 62.
Child's—SB 89, ATM 83, 84, BA 62, PTST 192, MTTP 42.
Frame—BA 64, HC a 48.

HIGH-LOW—HFB 235.

Lawn—MF 47.

Playground—FWR 67, FSB 235.

Porch—SB 245, HFM 180, FW 56, HIB 31, WS 142, RC VIII, WD
74, MF a 108, CFB 181.

Trainer—ABW 115.

Whirling—ABW 116.

SWITCHBACK—(Summer Toboggan Slide)—JAT 170.

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TABLE LAMPS—(See under Electric Lamps.)

TABLE MATS—VTZ 31, TH 69.

TABLES—

Apple Packing—FWR 119, 121, CR 174, HFD 151, FSB 202, 204.

Billiard and Davenport Combined—MF 51.

Billiard and Pool—HMG 194.

Bedroom—PF 38, HC a 35, CFB 146, 196, MF 112.

Bookcase—CFB 142, HIB 311.

Box—CAM 109.

Breakfast—CF 14.

Buffet—CFB 152.

Butterfly—AF 83, EAF 49.

Card—American Empire—AF 91. Duncan Phyfe—AF 87, 100. Empire—
CF 24, AF 91, 94. Folding—MF a 97. Hepplewhite—AF
97, 99, CF 22, FP 17, CL k 6. Sheraton—AF 93, CF 10.

Checker—HC a 56, CFB 139, ABW 214.

Chess—CFB 139.

Christmas Tree—HC a 122.
### Pyrographers
- MF 74, MF² 104.

### Reading
- AF 74.

### Round
- EC 174, 180, WD 31-36, 45, FM 14, CC 196, 197, 211.

### Rustic
- CFB 222, AB 67.

### Serving
- FD 90, IA 71, 144, RC XXIII, MF² 30, WD 68-69.

### Sewing

### Side
- AF 70.

### Signers
- EAF 35.

### Simple
- ABW 204, BBC 138.

### Small
- FD 74, MF³ 80, AF 62, 73, SSP 11, WWC 93, CC 197, WWR 135, 155, TP 5, EAF 22, 42, FM 14, EC 183.

### Smoking
- (See under Stands.)

### Sofa
- AF 40, 42.

### Student
- PF 48, CFB 78, 141, RC 440.

### Study
- LUC 90, CFB 78, HIB 281, WD 39, 61, 62, 64, 86.

### Tavern
- CF 16, EAF 54, 58.

### Tea
- AF 85, CF 18, PW 97, PF 42, PIFM 29, CC 211, WD 30, FM 28.

### Telephone
- IA 69, PW 47, CAM 121, ABW 231, PF 36, 39, FM 43, CC 226, CFB 107. (See also under Stands.)

### Tilt-Top

### Towel
- EWP 52.

### Typewriter
- IA 24.

### Work
- CF 12, 20. Empire—CLk 167.

### Writing
- FD 80, IA 44, 72, 73, PF 43, 44, 52, 56, 57, FM 45, CC 228, HIB 277, ABW 219. (See also Writing Desks.)

### Tarbets
- HIB 110, PG 14, 15, MT 183, 201, 202, WFG 130, 139, 142, 162, 233, 236, SB 205, PIFM 18, 19, 21, 22, GC 79, CC 166, 175, 195, 196, 198, HW 186, DC 99-114, WD 5-8, FD 22-39, CAM 110, 116. LUC 85, WD 65, RC XIV-XVI, MF² 105, PAP 121. PW 33, 35, 92. PIW VIII 6, 11, WW 256, 259, FM 12, 13, 15,

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**Tables—Cont.**
- Corner—AF 71.
- Davenport—FB 15.
- Den—MF² 60.
- Dining—MF² 77, MF³ 75, WD 35-36, IA 44, CFB 144, AF 54-61.
- American Empire—AF 30, 55. Duncan Phyfe—EAF 70. Empire—CLk 166. Extension—MF² 76, MF³ 75. Empire Extension—AF 52.
- Directors’—WD 67.
- Draw—AF 49, 51.
- Drawing—CR 320, HC² 78, GC 63, ABW 197, HHB 133, EC 169.
- Drop-Leaf—CC 221, FM 38.
- Fern—PF 40.
- Gate-Leg—AF 42, 45, PF 19, EAF 29.
- Kidney Shaped—AF 65.
- Kitchen—WS 130, PW 68, FWR 55, FS 92.
- Magazine—MF² 24.
- Packing—CR 174, FWR 118, 120.
- Photograph—PF 40.
- Pie Crust—AF 68.
- Pool and Billiard—HMG 194.
- Portable—MF 50.
TARBET—Cont.
HC 136, WWC 63, MF 17, 57, EC 104, 107, 117, HF 39, WWR 126, 132, SSP 8, VD 65, EWW 190, 192, 197. Woven—FWP 46.

TACKLING DUMMY—BA 26.

TAMMERS—(For Concrete)—CR 270. For Vegetable Flat—CR 67.

TEA-POT BLOCKS—CC 151, PW 14, PG 14, HWFB 84.

TARGETS—OBC 33. (See also Animal Target under GAMES.)

TEA-TABLES—(See under TABLES.)

TEA-WAGONS—RC XV11, PF 83, 84, FP 47.

TETTER ROCKER—ATM 107.

TETTER TOTTERS—ATM 105, FWR 68, HMT 201, MTTP 116, FSB 237, And Horse—BA 60.

Falling—ET 76, MTTP 116.

TETTER TOY (Sand Motor)—CAM 177.

TEETOTUM—PWB 102.

TELEAUTOGRADES—SAC 94, MM 91.

TELEPHONE—T 42, PTST 211.

TELEPHONE BRACKETS—EWP 67, TF 497.

TELEPHONE CHAIRS—PW 48, CAM 121. (See also under Stools.)

TELEPHONE FAB—GC 68.

TELEPHONE STANDS—(See under Stands and Tables.)

TELEPHONE STEALS—(See under Stools.)

TELESCOPE, MARINE—ABW 34. Water—BHB 83.

TENNIS EQUIPMENT—
Back Stop—HMG 303.

Court Marker—HMG 294.

Judge’s Stand—BA 18, HMG 305.

Net Posts—HMG 300.

Net Tightener—HMG 301.

Racket Press—HMG 306.

TEXT COTTAGE—OBC 231.

TETHER BALL POLE—HMG 308.

THEATER—(See Miniature Theatre.)

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THERMOMETER RACKS—CC 152, CM 30, PG 14, VZ 21, THB 103.

THROW STICK—BA 74.

THUR-zheimer, GERMAN—MM 200.

THE RACKS—(See under RACKS.)

TILT TOP TABLES—(See under TABLES.)

TIP SETTLE—CFB 97.

TOBACCO STANDS—BA 80, BHB 278, ABW 109, PTST 91, AB 167.

TOBACCO SLIDES—JAT 170, 182, CAM 266, TBC 291.

TOBACCO RACKS—(See under RACKS.)

TOBACCO TRELLIS—(See under TRELLIS.)

TOOL BOX—(See under BOXES.)

TOOL CABINETS—(See under CABINETS.)

TOOL CARRIERS—PW 10, CR 310, AW 70, FWR 48.

TOOL CHESTS—(See under CHESTS.)

TOOL RACKS—(See under RACKS.)

TOOL TRAYS—(See under TRAYS.)

TOOTH BRUSH RACKS—(See under RACKS.)

TOOTHPICK HOLDER—CM 12.

TOPS—T 26, HMT 79, PWB 101, PTST 38, OHB 38, MTTP 2, IW 47, HWFB 80.

Aerial or Flying—CAM 232, T 22, 24, MTTP 6, PTST 71.

"Spinnet"—MW 221.

Whittled Clown—BMT 95.

TOWEL HOLDEERS—VZ 31. (See also under RACKS.)

ROLLERS—VD 54, LUC 46, CFB 37, TH 94, HHB 147, HWFB 68, WFG 223, PIW 1X 7, EWW 179, 194.

TOY ANIMALS—
Basses for—HWFB 28.

Bears—AST 44, 48, TPD 2, CSW 9, BMT 56, HWFB 32, 36, 60.


BUFFALOS—JAT 274, IW 42, 43, HWFB 32.

Camels—ET 36, AST 58, TC 38, HMG 4, HWFB 36.

Cats—AST 37, 65, HWFB 38.
Toy Animals—Cont.

Cougars—CSW 9.
Cows—ET 22, HMG 5.
Deer—ET 22.
Dogs—ET 44, AST 21, 26, 59, 61, HC 138, HMG 4, TPD 4, IW 37.
  AST 59. Fighting Bull-Dogs—HC 82. Wiggle or Jointed—
  HWFB 68.
Donkeys—HWFB 38, IW 71, CSW 9, JAT 199, TPD 2. Kicking—
  HC 22, IW 72.
Elephants—ET 97, AST 45, HC 52, MM 247, TC 33, HMG 4, IW 37,
  46. HWFB 79.
Giraffes—ET 38, HC 72, HMG 5, WLF 12, BMT 55, IW 31, HWFB
  32, PAP 27.
Giants—IW 42, HWFB 32, AST 24, 25, HC 76, TC 36. Bucking—
  ET 60.
Hippopotamus—BMT 54.
Horses—AST 19, 43, 71, ATM 68, 69, HWFB 32, 72, CSW 13, TPD
  3, WLF 10, IW 27. And Cart—CSW 15, HFB 239. On a Stick—
  (straddle horse)—HWFB 237, AST 71, GC 81, HC 106, TC 109.
  Rocking—ET 94, HC 70, TPD 3, AST 43.
Kangaroos—ET 32.
Lamb—TC 35.
Lions—AST 30, 49, 51, BMT 56, HWFB 36.
  Up-a-Stick—PWB 131.
Mule—Buckling—ET 100.
Pigs—HC 38, ET 32, AST 37, HMG 5, WLF 7.
Rabbits—HC 88, CSW 9, TC 34, HMG 4, AST 20, 36, MTPP 102,
  IW 31, HWFB 38.
Rhinoceroses—ET 38, TC 32, HMG 5, HWFB 32.
Squirrels—ET 32, CSW 9, WLF 8, IW 31.
Tigers—AST 22, 23, ET 26, HMG 4, BMT 54.

Toy Animals—Cont.

Toy Bunnies—WLF 6.
Dinkeys—CSW 18, ET 82, MTPP 78.
Dodo—ET 92, WLF 27, BMT 75, IW 37.
Feeding—GC 83, HC 54.
Hissing Raven—HC 140.
Ostrich—AST 29, IW 42, 45.
Owl—HMG 5.
Pelican—Mounted—TC 29. Sewing Stand—ET 84, AST 69.
  PAP 25.
Wild Duck—ET 20.
Toy Fowls—

Ducks—ET 18, HWFB 39, AST 60, TC 30, HMG 4. Cart—AST 42.
  Decoys—BHB 423. Mechanical—HC 76, HC 66, MM 3, TC 40,
  41. Rocking—ATM 87, 98. Worm Pulling—IW 54, TPD 7.
Green—ET 18, HFB 241, TC 31, 39, IW 42, 44. HWFB 30. Flying—
  ET 90.
Hens—ET 20, 63, AST 37, Little Red—HC 102. Pecking—ET 69,
  IW 68. Rocking—AST 37.
Peacock, Balancing—ET 42, HWFB 30.
Roosters—TC 37, HWFB 39. Fighting—MM 234. Rocking—ATM
  TPD 7.
Turkey Gobblers—HC 62, AST 64, HWFB 30.
Toys—AST, T, ET, ATM, HMT, TC, TPD and WLF entire.
Toys—
  Acrobatic Monkey—WLF 24.
  Barn—HWFB 98.
  84
Toys—Cont.
Barn Yard—BMT 67.
Balancing Barrister—ET 68.
Boats—(See Boats, Model or Toy.)
Buffet—ATM 77. (See also Doll Furniture.)
Coachman—WLF 11.
Clockwork driven—HIB 189, HMT 88, 104, CAM 181, TBC 343.
Clog Dancers—THB 186, HMT 72.
Conveyor—CSW 16.
Dancing Darky—HFB 243, WLF 28, ET 70.
Dancing Fisherman—BHB 31.
Derricks and Cranes—HMT 117, CAM 181, THB 151, HMT 117.
Dump Cart—WLF 18.
Dutch Girl—WLF 13.
Elevators—HMT 59, 67, 148, TBC 94.
Engines—WLF 25. (See also under Models.)
Express Wagon—AST 52.
Falling Seesaw and Ladder—MTPP 82.
Ferris Wheel—HIB 191.
Fighting Wild Irishmen—MM 230.
Indian—AST 31.
Jack-be-nimble—HC 92.
Jumping Athletic Trick Maker—TPD 5.
Mechanical Grasshopper—PAP 45.
Merry-go-round—HIB 190, THB 173, HMT 85, 89, 201.
Nurse—AST 35.
Old Dock Quack—HC 42.

Toys—Cont.
Phonograph—MM 83.
Pine Cone—HWFB 112.
Policeman, Walking—MM 77.
Running Grasshopper—MTPP 120.
Sand-Wheels—T 70, TC 82.
Spanking Esquimaux—ET 72.
Shooting Gallery—HMT 140.
Sleigh—WLF 15.
Stables—HMT 160, TBC 160.
Street Cars—TBC 336, HMT 82.
Tom-Tom Drum—T 28.
Trees—HWFB 44.
Trolley Lines—TBC 331, HMT 47, PTST 66.
Tumbling Toby—HC 38.
Tumbling Tommy—ET 78.
Wagons—(See under Wagons.)
Wheelbarrows—(See under Wheelbarrows.)
Traveller's Sewing Case—HC 124.

Traps—
Animal—PTST 111, GC 76.
Barrel—MTTP 26.
Box—TBC 221, JAT 28, BA 104, MTTP 26, 90.
Coop—TBC 224.
Dead-Fall—TBC 222.
Figure-Four—TBC 219, JAT 25, BA 104, BHB 213, MTTP 26.
Frog—ABW 31.
Mole—BHB 214.
Moth—ODC 117.
Mouse—HC 120.
Traps—Cont.
Rabbit—FW 54, AW 59, ABW 149, FSB 105.
Sparrow, BH 58, BHS 20, FSB 233.
Squirrel—BA 104.
Trap Ball—HMG 333.
Turtle—JAT 32, OBC 373.
Trays—
Corn Exhibition—FW 38.
Crum—HC 84.
Desk—DC 123, PIW VIII 10.
Fruit Drying—CAM 326.
Jewelry—(See under Turning.)
Letter—EWP 76.
Nail and Screw—SB 161, DF 10, JSWW 8, 9.
Newspaper—PW 108.
Oats Sprouting—WS 179, FW 33.
Pin—CM 18. (See also under Turning.)
Seed Corn Testing—FW 36.
Seed Potato—CR 145.
Serving—WS 130, PW 207, HIB 351.
Silver—EWP 72.
Tool—MT 172, 199, FW 10, BBC 40, JSWW 8.
Trellises—EWP 22, GC 46, THB 381, SB 105, FW 74, WS 98, HFD 131, IW 21.
Tomato—WS 109, EWP 22, CR 90, CL 33, 86, CAM 324, HFD 134.
Trench Hammers—MM 104, CAM 173.
Trousers Hangers—EWP 54. (See also Suit Hangers.)
T-Square—WC 219, TH 106, PIW VIII 8.
Turaphone—HFB 264.
Tubular Hair—HFB 258.
Tumbler—For Polishing Toys—ATM 32.

Turning Saw—HC 64.
Turning Projects (or Projects with Turned Parts)—
Arm Chair—Sheraton—AF 154.
Ball Bats—ATM 117, BA 20.
Ball Inside of a Ball—WTG 66.
Bedsteads—AF 166, AF 97, 99.
Book Ends—AWT 24.
Book Trough—IA 64.
Bread Board—AE 65.
Bread Plate—PT 16.
Bridge Lamp—AWT 54.
Button Box—AWT 28.
Candle Sticks—IA 62, 64, AE 70-76, MW 285-293, AWT 31, 37, 40, ETS 133, 136.
Card Receivers—PT 14, MW 229-235.
Caster Cups—AE 57.
Cedar Chest Legs—CW 46.
Chairs—PF 70, AF 154, 158. Legs—ETS 153. Rungs—ETS 156.
Checker Men—MW 283.
Cheese and Cracker Dish—AE 85.
Chess Men—MW 317-319.
Chess Handles—WTG 33, PT 6, MW 103, 115.
Clock Casing—AE 88.
Costumers—IA 48.
Cups—EWW 227, 239.
TURNING PROJECTS—Cont.
Darning Spheres—PT 8, MW 129-133, AE 29, 31, WWR 94, AWT 22, ETS 117.
Desk Trays—PT 15.
Dining Tables—American Empire—AF 30.
Doll Furniture—CLk 201, 202, 205, 206.
Drawer Pulls—MW 163, 165, AE 57.
Drawing Set—AE 64.
Dresser Set—AWT 30.
Dressing Glass—AF 132-136.
Duncan Phyfe Card Table—AF 87.
Empire Four-Poster Bedstead—AF 169.
Fernery—AWT 60.
File Handles—PT 6, MW 109.
Flemish Stool—AF 145.
Floor Lamps—AE 100, 101, AWT 56.
Martha Washington—PF 29.
Four-Poster Beds—AE 97, 99, AF 166-174.
Fruit Bowl—AWT 39.
Gate-Leg Tables—AF 42. Sheraton—AF 45. Trestle-Footed—EAF 29.
Girl's Dresser Set—AE 71.
Goblets—ETS 93, 143.
Glove Danner—PT 8, ETS 118.
Hairpin Receivers—MW 207-209, AWT 30.
Hair Receiver—AWT 31.
Hat Pin Receivers—MW 211-213.

TURNING PROJECTS—Cont.
Handles—AE 40, 43, WTG 33, 61, PT 6, MW 149-151. Chisel—MW 103, 105, 107, ETS 105, 125.
Hand Mirror—WWR 96.
Hat Rests—ETS 137.
High-Boy—AF 113, EAF 73.
High Chair—EAF 41.
Indian Clubs—PT 10, MW 153, 155, ATM 116, AE 38, BA 48.
Ink Stand and Pen Holder—WWR 99.
Italian Chair—AF 147.
Jewelry Trays—PT 24.
Knife Box, Antique—AF 188-189.
Lamps—MW 303-307, 327, 333, AE 76, 100, AWT 44, 46, 49.
Leg Rest—PF 28.
Low Stool—PT 25.
Match Boxes—MW 197, 199, 201, AWT 25.
Match Box Holder—AE 58.
Mirror Frame—Empire—AF 126, CF 50.
Neck Tie Rack—AWT 37.
Napkin Rings—PT 20, MW 253-257, AE 60, AWT 25, EWW 220, ETS 121, 124.
Parchment Light—AWT 45.
Pedestals—MW 309-325, AWT 50, 53.
Phonograph Cabinet, Gothic or Renaissance—AF 189. Jacobean—AF 183.
Phonograph Table—PF 41.
Picture Frames—PT 19, MW 237-243, AE 68, AWT 34, ETS 147.
Pin Cushion and Spool Holder—MW 315.
Pin Trays—MW 203, 205, PT 13, ETS 145.
Plate, Bread—PT 16.
Turning Projects—Cont.
Potato Mashers—PT 7, MW 135-137, AE 36, AWT 22, EWW 226.
Rammer—PT 9, ETS 116.
Ring Puzzle—PT 23.
Ring Stake—PT 24.
Rolling Pin—PT 7, MW 39, 141, AE 51, AWT 22, EWW 226.
Rope Pulley—PT 22.
Rosettes—WTG 41, PT 12, WWR 95, EWW 232, ETS 101.
Scratch Awl Handle—MW 111.
Screwdriver Handles—Pr 6, MW 145-147, AE 40.
Serving Table—IA 71.
Serving Trays—AWT 34.
Sewing Rings PT 18.
Sewing Sets—AE 86.
Shaving Mirrors—MW 295-301, WTG 62.
Sheraton Four-Poster Bedsteads—AF 168.
Smoking Stands—AE 81, MW 311-313.
Spheres—WTG 52, 55, 56, MW 281, AE 96, WW 211.
Spinet—MW 221.
Spinet Desk—AWT 64, 65, 66, 67.
Tables—American Empire Card—AF 91. American Empire Dining—
CF 24, Hepplewhite—AF 97, 99. Sheraton—CF 10. Draw—AF
49-51. Empire—CF 24, AF 52. Empire Stand—AF 66. Extension—AF 53, 55-61. For Phonograph—PF 41. Gate-Leg—AF
42-47. Sheraton—AF 45. Kidney Shaped—AF 65. Pie Crust—
AF 68. Sewing—AF 75, 79. Sheraton—AF 45, 95, 100, CF 10.
Small—AF 73. Tavern—CF 16. Tea—CF 18 Tilt-Top—AF
62-64, CF 18, 26.

Tea-Pot Stands—AE 66.
Ten Pins—MW 161.
Toothpick Holders—WTG 46, 49, AWT 25.
Top, Spinnet—MW 221.
Torcher—AWT 52, 55.
Towel Rings—MW 223-227, PT 17.
Towel Rack—AWT 37.
Trays—WTG 36, 43, MW 229-235, EWW 228, AWT 27, 31.
Umbrella Handles—AE 53.
Umbrella Stand—EC 242.
Vases—MW 215-219, AWT 32, WTG 65. (See Bud Vases.) For
Spoons—AWT 24.
Yarn-Ball Holder—AWT 28.
Turning Saw—HC 64.
Turtle Trap—JAT 32.
Two Man Weight Carrier—AW 72, FSB 107. For Barrel—HFD 260.

U
Umbrella Stands—(See under Stands and Racks.)
Upholstered Seats—(See under Seating.)
Upholstered Stools—(See under Stools.)

V
Vases—(See under Turning.)
Vaulting Standards—WS 122, BA 12.
Vegetable Bins—HIB 353.
Vegetable Flats—CR 65, 70.

W
Wabblers—ET 74.
Wagon Boxes—(See under Boxes.)

Wagons, Toy—ET 88, PTST 63, HC 122, HC 124, WLF 20-22, HMT 192, AST 59, HHH 180, MTTP 124, IW 63.

Wall Bracket—HW 106.

Wall Cabinets—(See under Cabinets.)

Wall Pocket—TH 89.

Wall Racks—(See under Racks.)

Wall Shelves—(See under Shelves.)

Wardrobes—RC XVII, MF 20, PP 87, 92.

Wash-Bench—(See under Benches.)

Wash-Stands—(See under Stands.)

Wash-Tub Bench—WS 100, FW 60.

Water Scooter—OBC 331.

Water-Baskets—(See under Baskets.)

Water Rocker—MM 214.

Water Telescope—BHB 83, OBC 376.

Water Mill—TC 82.

Water Motor—T 67, TF 488, SAC 161, THB 168, HMT 42.

Water Troughs—CR 231, FWR 126.


Weather Vanes—HC 64, ET 50, SAC 402, BMT 37, MTTP 34, EWW 210, HWFB 48.

Aeroplane—VTZ 97, HC 64.

Weaving Frame—WS 120.

Well House—IA 14.

Wheelbarrows—ABW 83, THB 374, AW 110, HFD 239, MTTP 124, FSB 184, 196, 222.

Toy—HF 233, GC 67, ATM 78, 79, PTST 63, WLF 16, HC 130, IW 57, 58, PWB 94, 98.

Wheels for Toys—ATM 51.

Whirligigs—ET 86, MTTP 6, Large Hanging—ABW 120.

Whisk Broom Holders—(See under Broom Holders.)

Whistles—T 32, PWB 78.

Bamboo—PWB 79.

Siren—MM 192.

Wigglebug—MM 243.

Windmills—MT 167, SB 85, T 44, 46, 48, 100, 106, HMT 4, PTST 142, PWB 68, 73, GC 51, TPD 11, TC 77, 80, HC 128, VTV 93, AB 273, ABW 147, 271, MTTP 34, EWW 210.

Clothes Dryer—THB 83.

Force Pump—T 108.

Window Flower Boxes—(See under Boxes.)

Window Refrigerator—THB 81.

Window Screens—(See under Screens.)

Window Seat—(See under Seats.)

Window Stick—CL 33, IWFB 51.

Window Ventilator—BBC 122.

Wind Wagon—ABW 269.

Wings, Skates—BHB 286.

Wireless Telegraph Set—BA 126-142.

Wood Baskets—(See under Baskets.)

Wood Choppers—ET 60, IW 69.

Wooden Doll—HC 60.

Wood Float for Concerting—CR 270.

Woodpecker House—(See under Bird Houses.)

Woodpecker Door Knocker—HC 28.

Wooden Chain and Rattle—TBC 360.

Wood Box—(See under Boxes.)

Wood Splitter—HFD 245.

Wood Turning Lathe—HC 16, BMT 21.

Wool Yarn Box—CR 217, FSB 152.

Work Benches—(See under Benches.)

Work Corner—ABW 196. (See Work Shops.)
Work Shops—AW 93, JAT 72, ABW 189, HHB 1, THB 1, BBC 24, HFD 7, CR 1, TBC 3, FSB 34, 37, 248, HWFB 14.

Woven Articles—FPW entire, SW Passim.

Woven Baskets—(See under Baskets.)

Woven Chairs—(See under Chairs.)

Wren House—(See under Bird Houses.)

Writing Board—FPW 34.


Writing Telegraphs—MM 91, SAC 94.

X

Xylophone—HPF 263.

Y

Yarn-Winder—CAM 92.

Yachts, Models—(See under Boats.)

Z

Zither—MTTP 38. (See also Door Zither.) Thur-Zither, German—MM 200.