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MUSEUM OF MODERN ART
MACHINE ART
Machine Art

March 6 to April 30, 1934

The Museum of Modern Art, New York
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LENDERS TO THE EXHIBITION

The Accessories Co., Inc., 40 West 40th Street, N. Y.  
Division American Radiator Co.

Bathroom equipment

Aluminum Company of America, Pittsburgh, Pa.  
Tubing, pistons, propellers, radiators, partitions


American Radiator Co., 40 West 40th Street, N. Y.

American Sheet & Tin Plate Co., 71 Broadway, N. Y.  
Subsidiary United States Steel Corp.

Stainless steel partitions, automobile hubcap


Cables, springs, strip steel

Arundell Clarke Ltd., 620 Fifth Avenue, N. Y.  
Ash tray

The Bingham Stamping & Tool Co., 1062 Post Street, Toledo, Ohio  
(R. Aberli, Jr., 225 Fifth Avenue, N. Y.)

Trays

Bissell Carpet Sweeper Co., Grand Rapids, Mich. (46 West Broadway, N. Y.)

Meter

Brown & Sharpe Manufacturing Co., Providence, R. I.  
(Brown & Sharpe of N. Y., Inc., 20 Vesey Street, N. Y.)

Precision instruments

L. D. Cahn Co., 31 Spring Street, N. Y.  
Stainless steel utensils


Car wheel and axle

Chase Brass & Copper Co., Waterbury, Conn.  
(Specialty Sales Division, 200 Fifth Avenue, N. Y.)

Bowls, trays, plates

Clyde-Mallory Line  
Switchboard

Bathroom fittings

The Conover Co., Chicago, Ill., (101 Park Avenue, N. Y.)  
Dishwasher

Coors Porcelain Co., Golden, Colorado  
Laboratory porcelain
LENDERS TO THE EXHIBITION—Continued

P. & F. Corbin, 101 Park Avenue, N. Y.
Hardware

Corning Glass Works, Corning, N. Y., (501 Fifth Avenue, N. Y.)
Laboratory glass, vases, bowls

Design Engineers, Inc., 745 Fifth Avenue, N. Y.
Picture frames

Dictaphone Sales Corporation, 420 Lexington Avenue, N. Y.

Eugene Dietzgen Co., Inc., 218 East 23rd Street, N. Y.
Drafting and surveying instruments

Saw, trowel

Distillers Products Corp., Empire State Building, N. Y.
Rumidor

Alfred Dunhill of London, Inc., 622 Fifth Avenue, N. Y.
Pipes and smoking accessories

Eimer & Amend, Third Avenue at 18th Street, N. Y.
Laboratory glass, scientific instruments

Electric Boat Company, Bayonne, N. J.
Propeller

Electrol Inc., 227 East 45th Street, N. Y.
Furnace

Electromaster Inc., 1803 East Atwater Street, Detroit, Mich.
Range

The Fay Co., 130 Madison Avenue, N. Y.
Floor machine

Fleetwings, Inc., Garden City, L. I.
Aeroplane wing rib

Headlamps

Measuring device

Fostoria Glass Co., Moundsville, W. Va., (200 Fifth Avenue, N. Y.)
Tumblers, goblets, plates, vases

The Gorham Co., Providence, R. I., (6 West 48th Street, N. Y.)
Flat silver

Hamilton Beach Manufacturing Co., Racine, Wis. (280 Broadway, N. Y.)
Vacuum cleaner

Hamilton-Standard Propeller Corp., Hartford, Conn.
LENDERS TO THE EXHIBITION—Continued

Hanson Scale Co., 523 North Ada Street, Chicago, Ill., (1150 Broadway, N. Y.)
Bathroom scale

Hoffmann & Billings Manufacturing Co., Milwaukee, Wis.
(Henry Stein, 50 Cliff Street, N. Y.)
Mixer Faucet

Holophane Co., Inc., 342 Madison Avenue, N. Y.
Diffusing lenses

Howell Co., Geneva, Ill.
Metal chairs

The International Nickel Co., Inc., 67 Wall Street, N. Y.
Sink

Jaeger Watch Co., Inc., 304 East 45th Street, N. Y.

Janes & Kirtland, Inc., 101 Park Avenue, N. Y.
Kitchen cabinets

Lalance & Grosjean Mfg. Co., Woodhaven, L. I. (405 Lexington Avenue, N. Y.)
Kitchenware

Potentiometer

Lenox Inc., Trenton, N. J.
Porcelain vases, plates

Lewis & Conger, 45th Street and Sixth Avenue, N. Y.
Knives, spoons, enamel kitchenware, glassware

Lily-Tulip Cup Corp., 122 East 42nd Street, N. Y.
Paper cups and containers, dispensers

Herman Miller Clock Co., Zeeland, Mich. (62 West 47th Street, N. Y.)

The National Cash Register Co., Dayton, Ohio. (205 East 42nd Street, N. Y.)

National Tube Co., Pittsburgh, Pa. Subsidiary United States Steel Corp.
Stainless steel tubing

Ovington’s, Fifth Avenue at 39th Street, N. Y.
Imported glassware, enlarging mirror

Owens-Illinois Glass Co., Toledo, Ohio. (405 Lexington Avenue, N. Y.)
Bottles and jars

Platinel, Inc., 103 Washington Avenue, Albany, N. Y.
Ash tray

Platinum Products Co., 521 Fifth Avenue, N. Y.
Cigarette lighters

Polar Ware Co., Inc., Sheboygan, Wis. (239 Eleventh Avenue, N. Y.)
Kitchenware

Revere Copper & Brass Inc., Rome Manufacturing Division, Rome, N. Y.
(230 Park Avenue, N. Y.)
Kitchenware, bowls
LENDERS TO THE EXHIBITION—Continued

Ritter Dental Manufacturing Co., Inc., Rochester, N. Y. (200 Fifth Avenue, N. Y.)
X-ray apparatus

Ball bearing

Saks-Fifth Avenue, 611 Fifth Avenue, N. Y.
Accessories

Scovill Manufacturing Co., Waterville, Conn.
Flush valve

Scully Steel Products Co., Waverly, N. J. Subsidiary United States Steel Corp.
Rolled steel sections

The Silex Company, Hartford, Conn. (E. B. Latham & Co., 250 Fourth Ave., N. Y.)
(Louis C. Eitzen, 280 Broadway, N. Y.)
Measuring device

The Standard Oil Co. of Ohio, Cleveland, Ohio
Gasoline pump

Carol Stupell, 443 Madison Avenue, N. Y.
Martini mixer

Sullivan Shipyards, Inc., 827 East 9th Street, N. Y.
Propeller

Taylor Instrument Companies, Rochester, N. Y. (30 Rockefeller Plaza, N. Y.)
Thonet Brothers, Inc., 33 East 47th Street, N. Y.
Metal chairs

The Torsion Balance Co., 92 Reade Street, N. Y.
Torsion scale

United States Steel Corp., 71 Broadway, New York—Lent through subsidiaries

Kurt Versen, 19 East 47th Street, N. Y.
Lighting fixtures

Waters-Genter Co., Minneapolis, Minn.
(Tumbridge Sales Corp., 196 Lexington Avenue, N. Y.)
Electrical cooking appliances

Western Clock Co., LaSalle, Ill.

Westinghouse Electric & Manufacturing Co., N. Y.
Insulators, lamps, fuse, switchboard, micarta panels, meters, clock motors

The S. S. White Dental Manufacturing Co., 500 Fifth Avenue, N. Y.
Russel Wright, 165 East 35th Street, N. Y.
Wooden bowls and tableware

The Yale & Towne Manufacturing Co., Stamford, Conn.
Padlock

York Safe & Lock Co., York, Pa. (55 Maiden Lane, N. Y.)

Carl Zeiss Inc., 485 Fifth Avenue, N. Y.
Optical instruments
In addition to those who have lent to the Exhibition, the President and Trustees of The Museum of Modern Art wish to thank for their assistance in procuring objects not manufactured or owned by them

United States Steel Corporation
Westinghouse Electric & Manufacturing Company
Aluminum Company of America

for generously lending materials for installation

American Sheet & Tin Plate Company, Subsidiary United States Steel Corp.
Aluminum Company of America
Westinghouse Electric & Manufacturing Company
Lily-Tulip Cup Corporation

for the design of the cover

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Prof. H. R. Hitchcock, Jr. of Wesleyan University

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By beauty of shapes I do not mean, as most people would suppose, the beauty of living figures or of pictures, but, to make my point clear, I mean straight lines and circles, and shapes, plane or solid, made from them by lathe, ruler and square. These are not, like other things, beautiful relatively, but always and absolutely.

Plato: *Philebus* 51 c


For beauty three things are required. First, then, integrity or perfection: those things which are broken are bad for this very reason. And also a due proportion or harmony. And again clarity: whence those things which have a shining color are called beautiful.


Industrial civilization must either find a means of ending the divorce between its industry and its “culture” or perish.

L. P. Jacks: *Responsibility and Culture*
FOREWORD

Machine Art and Geometrical Beauty.

The beauty of machine art is in part the abstract beauty of “straight lines and circles” made into actual tangible “surfaces and solids” by means of tools, “lathes and rulers and squares.” In Plato’s day the tools were simple handworker’s implements but today, as a result of the perfection of modern materials and the precision of modern instruments, the modern machine-made object approaches far more closely and more frequently those pure shapes the contemplation of which Plato calls the first of the “pure pleasures.”

Machines are, visually speaking, a practical application of geometry. Forces which act in straight lines are changed in direction and degree by machines which are themselves formed of straight lines and curves. The lever is geometrically a straight line resting on a point. The wheel and axle is composed of concentric circles and radiating straight lines. The watch spring (No. 7) is a spiral. Sphericity and circularity are the geometrical characteristics of a ball bearing (No. 50). Screws, bearing springs (No. 1), and propellers (No. 41) are various—and variously beautiful—applications of the helix and helicoid.

Static and Kinetic Rhythms.

The beauty of machine art depends often upon rhythmical as well as upon geometrical elements—upon repetition as well as upon shape. The teeth of a saw form a simple static rhythmic series; the keys and levers of the cash register (No. 88) make a more varied and complex series.

Motion is an essential function of many machines and sometimes increases their aesthetic interest, principally through the addition of temporal rhythms, both of movement and of sound. The pistons of a locomotive or the rising and falling frames of a mechanical loom illustrate the point. On the other hand a propeller, a governor, a rotary saw, a ball bearing are more beautiful as objects when they are still or, better, moving very slowly. Even the streamlined object is more frequently admired when at rest than when in motion. Fortunately for this exhibition machines proper are only a small part of machine art as a whole.
Technical and Material Beauty.

In addition to perfection of shape and rhythm, beauty of surface is an important aesthetic quality of machine art at its best. Perfection of surface is, of course, made possible by the refinement of modern materials and the precision of machine manufacture. A watch spring is beautiful not only for its spiral shape but also for its bright steel surface and its delicately exact execution.

Machine art, devoid as it should be of surface ornament, must depend upon the sensuous beauty of porcelain, enamel, celluloid, glass of all colors, copper, aluminum, brass and steel. The circles and spheres of a ball bearing (No. 50) are greatly enhanced by the contrasting surfaces of brushed steel races, shining polished steel balls, and brass carriers.

Visual Complexity.

The beauty in machine art as in all art varies in relation but not in proportion to its complexity. A watch crystal, perfect though it may be, is too simple a form to hold our visual interest for long. A printing press, on the other hand, is too complicated an arrangement of shapes for the human eye to enjoy aesthetically. Moderately simple machine compositions such as the door of a wall safe (No. 91) or the microscope (No. 314) or our classical example, the ball bearing (No. 50) prove more satisfactory.

Function.

A knowledge of function may be of considerable importance in the visual enjoyment of machine art, though Plato might have considered such knowledge an impurity. Mechanical function and utilitarian function—“how it works” and “what it does”—are distinct problems, the former requiring in many cases a certain understanding of mechanics, the latter, of practical use. Whoever understands the dynamics of pitch in propeller blades (No. 41) or the distribution of forces in a ball bearing (No. 50) so that he can participate imaginatively in the action of mechanical functions is likely to find that this knowledge enhances the beauty of the objects.* In the same way, using or understanding the use of, the calipers (No. 294), the retort (No. 394), or the rotary floor polisher (No. 71) is likely to increase their aesthetic value.

* For most people the beauty of that ingenious engine, the Gothic vault, is augmented by a knowledge of the mechanics which govern its structure and visible form.
Fortunately the functional beauty of most of the objects is not obscure and in any case, so far as this exhibition is concerned, appreciation of their beauty in the platonic sense is more important.

Machine Art and the Designer.

The previous paragraphs have considered the aesthetic enjoyment of machines and machine-made objects without mentioning their designers. The designers are of two kinds, technical and artistic. Often one man will combine both rôles. For even the most impractical and fantastic “styler” of “modernistic” plumbing fixtures (not included in the exhibition) must consider function; and the most forthright technical designer of microscopes (No. 314) will insist on a perfection of shape and finish which is partially aesthetic.

Many of the finest objects in the exhibition such as the bearing spring (No. 1) or the depth gauge (No. 289) are produced quite without benefit of artist-designer. Their beauty is entirely unintentional—it is a by-product. Nevertheless they satisfy through their “integrity”, “due proportion” and “clarity,” the excellent thomistic definition of the beautiful as “that which being seen, pleases”.*

Many other objects, the clock (No. 270), the chair (No. 282), the lamp (No. 273), are the result of conscious artistic intention. For in a great many useful objects function does not dictate form, it merely indicates form in a general way. The rôle of the artist in machine art is to choose, from a variety of possible forms each of which may be functionally adequate, that one form which is aesthetically most satisfactory. He does not embellish or elaborate, but refines, simplifies and perfects.

Machine Art and Fine Art.

Good machine art is entirely independent of painting, sculpture and architecture. But it may be noted in passing that modern artists have been much influenced by machine art. The Italian futurists, Russolo and Balla, and their English and Russian followers were romantically excited by the power and speed—the dinamismo—of machines.† Painters such as Léger and Baumeister have been interested in the decorative and formal qualities

* *Id quod visum placet; Saint Thomas Aquinas—<i>Summa Theologiae</i> I, g. 5, a 4, ad 1.

† The romantic attitude toward the machine reached its height in America about five years ago. The Machine-Age Exhibition held in New York in 1927 was an important pioneer effort which included fantastic drawings of the city of the future, "modernistic" skyscrapers, constructivists, robot costumes, theatre settings, and factories, together with some excellent machines and photographs of machinery.
of machines. Malyevitch, Lissitsky and Mondriaan have used technicians’
tools, the compass and the square, to achieve “abstract” geometrical paint-
ings of a machine-like precision. Picabia and Grosz used machines to invoke
the mirthless laughter of dadaism.

The Russian constructivists, Tatlin, Gabo, Pevsner, employed the
technique, the materials and something of the structural feeling of machinery.
The severity and glittering polish of machines have also affected the sculpt-
tors Brancusi, Archipenko and Belling.

Machine art has been the principal influence which has purged the best
post-war architecture from the compromises of both the “modernistic” and
revivalist architects. It is true that the ideas back of Le Corbusier’s famous
phrase “the house should be a machine à habiter” have given rise to much
naive and dreary functionalism. But the leaders of modern architecture
today are united in restoring the artistic function of the architect to its
place beside his technical function.

**Machine Forms and Natural Forms.**

The beauty of the machine art in so far as it is a mere by-product of
function may seem a meagre and even trivial kind of beauty. But this is not
necessarily so. The beauty of all natural objects is also a by-product—the
helix of a snail’s shell (and a steel coil), the graduated feathering of a bird’s
wing (and the leaves of a laminated spring), the rabbit’s footprints in the
snow (and the track of non-skid tires), the elegance of fruit (and of incan-
descent bulbs).

**“Industry and Culture”**

It is in part through the aesthetic appreciation of natural forms that
man has carried on his spiritual conquest of nature’s hostile chaos. Today
man is lost in the far more treacherous wilderness of industrial and com-
mercial civilization. On every hand machines literally multiply our diffi-
culties and point our doom. If, to use L. P. Jack’s phrase, we are to “end
the divorce” between our industry and our culture we must assimilate the
machine aesthetically as well as economically. Not only must we bind
Frankenstein—but we must make him beautiful.

A. H. B., Jr.
HISTORY OF MACHINE ART.

Machine Art and Handicraft.

The history of machine art is interwoven with that of handicraft, but in spirit machine art and handicraft are diametrically opposed. Handicraft implies irregularity, picturesqueness, decorative value and uniqueness: figured textiles, pottery vases, decorative friezes, hand-wrought metal work, hand-hammered silver bowls. The machine implies precision, simplicity, smoothness, reproducibility: plain textiles, vases as simple as laboratory beakers, smooth polished metal work.

The difference between craft and the machine lies in spirit and convention as much as in actual method of manufacture. Tools, and simple machines have always been used: the potter’s wheel and the hand loom are machines. Modern equipment is merely more efficient and complex. But whether the designer sits at the loom and works up the pattern as he weaves or whether a motor weaves and the designer sits in an office, the actual work is by machine. A man at a hand loom can weave a rug of machine-like simplicity. A glass blower can make laboratory beakers as well as picturesquely shaped vases. But the craft spirit does not fit an age geared to machine technique. Machine-made imitations of craft objects are parodies, and the real handicrafts have lost their original vigor.

In the development of the design of machines and useful objects, the nineteenth century is an anomaly. In previous periods the normal tendency had been to utilize the best technical and mechanical devices known and to design for these devices. After the invention of the potter’s wheel, vase designs were logically based on its use. But in the nineteenth century technics and design were divorced. Machines made bad designs while good designs continued to be executed by primitive methods.

The twentieth century is gradually rectifying this anomaly and is returning to the more reasonable principle of designing tools and useful objects with reference to the latest technique, out of the most durable material, and as economically as possible. In the same way the mother art of architecture has achieved style after the revivals of the nineteenth century by once more fusing with the latest technique of building science.

The Nineteenth Century.

The Industrial Revolution and the development of machine production in England in the latter part of the eighteenth century brought only ugliness
to ordinary life. It caused slums; it built ugly factories. For utensils it made bad replicas of ugly hand-made objects. People of sensibility in the nineteenth century hated the machines which seemed ugly and created ugliness. They failed to see the possibilities inherent in the new technics. Instead, they misused or rejected the new technics and developed their architecture and useful arts on a handicraft basis.

Nevertheless the science of engineering in the nineteenth century produced a few great buildings. The Crystal Palace at the London Exposition of 1851 is now considered one of the important ancestors of modern architecture. At the time, however, its great mass of glass and steel framework was considered too plain and ugly to deserve even the label of architecture. All the engineering works of the latter part of the nineteenth century and the beginning of the twentieth were considered mere utilitarian objects and as such were looked down upon. The science of building, however, developed rapidly and by the time of the World War had produced many excellent factories, grain silos and bridges.

Meanwhile architecture, independently of engineering, was moving toward simplicity. Philip Webb, Norman Shaw and their followers broke away from Classical and Medieval Revivalism and started the movement known as Queen Anne. In America, H. H. Richardson under the guise of Romanesque Revivalism, was creating his own sturdy simplicity. But only after the War did the stream of architecture join the stream of engineering, to give birth to a genuinely modern architecture. The development of the dependent arts paralleled that of architecture.

At first Gothic and Classical ornament (Fig. a), then Victorian rococo ornament was used whenever possible in designing machine art. Remarkable exceptions were the designs of Sir Joseph Whitworth, strictly simple and functional (Fig. b). He exhibited his machines in the same London Exposition of 1851 where the Crystal Palace caused so much comment. They received no more approbation from the designers of the day than the Crystal Palace did from the architects.

William Morris, the great reformer of the minor arts, especially hated the machine; indeed, it made him almost physically ill to look at the Crystal Palace which he visited as a young man from Oxford. His whole life was devoted to a crusade against the machine and for the ideals of art in everyday objects and art created by the common man himself.

This movement was at the time a healthy one. The minor arts on the
Continent of Europe had become sterile adaptations by indifferent craftsmen of Classical and Baroque forms. Morris had real ideas of simplicity and good workmanship which have their influence even at present. He and his followers revolutionized design in the minor arts toward simplicity and originality, although Morris himself believed that he was reviving the Gothic style.

The English Arts and Crafts Movement reached its heights in the '90s in the work of Voysey, MacIntosh and Baillie Scott, but was not acknowledged as a modern movement until it had been transplanted to the Continent, where it thrived in Vienna and Brussels under the leadership of such men as Josef Hoffmann and Henry van der Velde. Indeed one phase of the Arts and Crafts Movement on the Continent, characterized by curvilinear and naturalistic ornament, may even be called a style: the Art Nouveau (Fig. c).

Fig. a
Classical architecture in machine design, typical of the mid-nineteenth century. This false art drove William Morris and his followers to the refuge of medievalistic handicraft.

Fig. b
Straightforward machine design by the father of modern machine tool building. The aesthetic possibilities of these simple lines, entirely ignored by Whitworth's contemporaries, are only today being realized.
The Twentieth Century.

As in architecture it was only after the War that designers realized the possibility of beauty in the construction of machines. In Germany particularly the post-war generation prided itself on achieving a mechanistic age and on designing the proper utensils for living in it. This was most clearly expressed in the Bauhaus School at Weimar under the leadership of Walter Gropius. In spite of a cubist aesthetic and much left over craft spirit, the movement was more and more toward machine-like simplicity. It was here, for instance, that Marcel Breuer first developed the now ubiquitous tubular steel chair. The movement in Germany has been more and more against Kunstgewerbe—Arts and Crafts—until the modern expositions of what we call industrial art are practically free from that tradition.

The situation in America has been somewhat special. The Arts and Crafts developments in Europe have affected us less, whereas the tradition of machine construction has been purer and stronger. Our precision instruments especially have led the world (Nos. 289 to 313). But our minor arts have suffered from imitation of second-hand European designs. In 1900 Louis Tiffany was the only designer whose work was independent and known outside America. For the most part we inherited the worst of the English Arts and Crafts Movement and the worst of the Art Nouveau style, the worst of the Viennese Kunstgewerbe.

In the '20's we received a fresh wave of foreign influence from France. Though France herself was influenced from central Europe, the Paris Exposition of Decorative Arts of 1925, with its neo-classic trappings and bizarre ornament, made a strong impression on our designers. The problem in America has not been the conflict against a strong handicraft tradition but rather against a "modernistic" French machine-age aesthetic.

Besides the French Decorative movement in the '20's there developed in America a desire for "styling" objects for advertising. Styling a commercial object gives it more "eye-appeal" and therefore helps sales. Prin-
ciples such as “streamlining” often receive homage out of all proportion to their applicability.

Conscious design and the development in machine building have fused and the twentieth century restores the art of making machines and useful objects to its place, as a technic of making rapidly, simply and well the useful objects of current life.

The Scope of the Exhibition.

The Exhibition contains machines, machine parts, scientific instruments and objects useful in ordinary life. There are no purely ornamental objects; the useful objects were, however, chosen for their aesthetic quality. Some will claim that usefulness is more important than beauty, or that usefulness makes an object beautiful. This Exhibition has been assembled from the point of view that though usefulness is an essential, appearance has at least as great a value.

The Exhibition cannot be exhaustive. The very number of useful objects and machines made it impossible even to cover the whole field in making the choices. Exigencies of space prohibited many large items. Inaccessibility prevented choosing items locally distributed in the Far and Middle West. Yet the Exhibition tries to be representative. Some fields, the kitchen and the laboratory, for example, are more fully present than others. This is because the nineteenth century did not consider these objects worthy of decorative treatment.

For the convenience of the reader and the visitor to the Exhibition, the list of objects is divided according to use into six categories.

1. **Industrial units**: Machines and machine parts: springs, insulators, cable sections, propeller blades, etc.
2. **Household and office equipment**: Sink, furnace, bathroom cabinets, dishwasher, carpet sweeper and business machines.
3. **Kitchenware**
4. **House furnishings and accessories**: Objects used in daily life: tableware, vases and bowls, smoking accessories, lighting fixtures, and furniture.
5. **Scientific instruments**: Precision, optical, drafting and surveying instruments.
6. **Laboratory glass and porcelain**: Beakers, hydrometer jars, petri dishes and boiling flasks.
SHORT LIST OF BOOKS

Historical:


Osthaus, Karl Ernst. Van de Velde. Hagen i. W., Folkwang-Verlag, 1920. (Die neue Baukunst I)


Contemporary:


Pfeiderer, Wolfgang, introd. Die Form ohne Ornament: Werkbundausstellung 1924. Stuttgart, Deutsche Verlags-Anstalt, 1924. (Bücher der Form I)


DIVISIONS OF THE EXHIBITION

1. Industrial units
2. Household and office equipment
3. Kitchenware
4. House furnishings and accessories
5. Scientific instruments
6. Laboratory glass and porcelain

Within each division the objects are listed according to use.

Listing of each object is as follows: Name of the object
Name of the manufacturer
Name of the designer
Price

Unless otherwise specified the object may be purchased from the manufacturer.

An asterisk before a catalog number indicates that the work is illustrated by a plate which bears the same number.
1. **INDUSTRIAL UNITS**

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
<th>Company</th>
<th>Subsidiary</th>
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<td>1.</td>
<td>Bearing spring</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<tr>
<td>2.</td>
<td>Section of spring</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>3.</td>
<td>Air brake spring</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<tr>
<td>4.</td>
<td>Railroad car spring</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<tr>
<td>5.</td>
<td>Typewriter carriage spring</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<td>6.</td>
<td>Motor spring</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<tr>
<td>8.</td>
<td>Bumper ring for electric refrigerator</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<tr>
<td>9.</td>
<td>Clutch spring</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<td>10.</td>
<td>Grease cup spring</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<tr>
<td>11.</td>
<td>Fine wire spring</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<tr>
<td>12.</td>
<td>Coil of strip stainless steel</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
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<tr>
<td>13.</td>
<td>Steel balls for ball bearings</td>
<td>S K F Industries</td>
<td></td>
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<tr>
<td>15.</td>
<td>Carnegie beam sections</td>
<td>Scully Steel Products Co.</td>
<td>United States Steel Corp.</td>
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<td>16.</td>
<td>Standard beam sections</td>
<td>Scully Steel Products Co.</td>
<td>United States Steel Corp.</td>
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<td>17.</td>
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</tr>
<tr>
<td>18.</td>
<td>Steel channel sections</td>
<td>Scully Steel Products Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>19.</td>
<td>Steel rail sections</td>
<td>Scully Steel Products Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>20.</td>
<td>Bare concentric strand of electrical cable</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>21.</td>
<td>Bare sector strand of electrical cable</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>22.</td>
<td>Hollow conductor of an electrical cable</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>23.</td>
<td>Lock coil cable</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>24.</td>
<td>Submarine power cable</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>25.</td>
<td>Armored submarine power cable</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>26.</td>
<td>Section of wire rope 3 3/4&quot; in diameter</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>27.</td>
<td>Cross-sections of unusual wire shapes</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>28.</td>
<td>Ordinary rail bond</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>29.</td>
<td>Third rail bond</td>
<td>American Steel &amp; Wire Co.</td>
<td>United States Steel Corp.</td>
</tr>
<tr>
<td>31.</td>
<td>Type PN grey strain insulator</td>
<td>Westinghouse Electric &amp; Mfg. Co.</td>
<td></td>
</tr>
<tr>
<td>34.</td>
<td>Porcelain wall bushing</td>
<td>Westinghouse Electric &amp; Mfg. Co.</td>
<td></td>
</tr>
</tbody>
</table>
INDUSTRIAL UNITS—Continued

36. Steel car wheel with axle and rail
   Carnegie Steel Co.
   Subsidiary United States Steel Corp.

37. Rectangular, oval and streamlined tubes of aluminum
   Aluminum Company of America

38. Stainless steel tubing sections
   National Tube Company
   Subsidiary United States Steel Corp.

39. Large boat propeller, iron
   Sullivan Shipyards, Inc.

40. Boat propeller, bronze
   Electric Boat Co.

41. Outboard propeller
   Aluminum Company of America

42. Aeroplane propeller
   Hamilton-Standard Propeller Corp.
   Rough forged blades, Aluminum Company of America

43. Radiator tubes with aluminum fins
   Aluminum Company of America

44. Arco convector
   American Radiator Co.

45. Murray radiator
   American Radiator Co.

46. Steel gears
   Atlantic Gear Works

47. Stainless steel wing rib for aeroplane, shot-welded
   Fleetwings, Inc.

48. Automobile hub cap
   American Sheet & Tin Plate Co.
   Subsidiary United States Steel Corp.

49. Automobile pistons
   Aluminum Company of America

50. Self-aligning ball bearing
    S K F Industries

51. Automobile headlamps
    Ford Motor Co.

52. Circular wood-cutting cross-cut saw
    Henry Disston & Sons, Inc.

53. Plastering trowel, stainless steel
    Henry Disston & Sons, Inc.

54. Gasoline pump
    Standard Oil Co. of Ohio

55. Welded ball of Enduro stainless steel
    Sholes Inc., New York

56. Switchboard
    Westinghouse Electric & Mfg. Co.
    Lent by Clyde-Mallory Line

2. HOUSEHOLD AND OFFICE EQUIPMENT

57. Lavatory panel of the Arco Panel Unit System, equipped with special tubular fittings
   The Accessories Co., Inc. Division of American Radiator Co.
   George Sakier, designer
   Panel: $60.00; Standard Sanitary lavatory: $50.00. Licensed plumbers

58. Special medicine cabinet with sliding mirror door
   The Accessories Co., Inc. Division of American Radiator Co.
   George Sakier, designer
   $75.00

59. Recess supply cabinet
    Conant Bros. Co.
    $140.00

60. Mirror
    Conant Bros. Co.
    $19.00

61. Niedecken mixer faucet
    Hoffmann & Billings Mfg. Co.
    $25.00. Henry Stein, 50 Cliff St., N. Y.

62. Flush valve
    Scovill Mfg. Co. Plumbers’ Brass Goods Division
    Licensed plumbers

63. Electrol-Kewanee heating unit, model 10
    Electrol Inc.
    Gerth & Gerth, designers
    $857.00

64. Electrochef range, model B-2
    Electronmaster Inc., Detroit, Michigan
    Emil Piron, designer
    $110.00

65. Streamline Monel metal sink
    The International Nickel Co., Inc.
    Gustav Jensen, designer
    $193.50. Licensed plumbers
66. Electric plate warmer, White House Line
   Janes & Kirtland, Inc.
   $100.00. Department stores

67. Thermotainer, roll warmer
   Waters-Genter Co. Division of McGraw
   Electric Co.
   $35.00. Tumbridge Sales Corp., New
   York

68. Broom closet, White House Line, Small
   House model
   Janes & Kirtland, Inc.
   $33.75. Department stores

69. Cupboard and drawer base unit with Monel
   metal counter
   Janes & Kirtland, Inc.
   $33.85. Department stores

70. Exhaust fan
   Westinghouse Electric & Mfg. Co.
   Department and hardware stores

71. Fay electric floor machine, Diamond model
   The Fay Co.
   $65.00. Department, furniture and hard-
   ware stores

72. Hamilton Beach vacuum cleaner, model 8
   Hamilton Beach Mfg. Co. Subsidiary
   Scovill Mfg. Co.
   $34.75. Department, furniture and hard-
   ware stores

73. Silver Streak carpet sweeper
   Bissell Carpet Sweeper Co.
   $5.00. Department, furniture and hard-
   ware stores

74. The Conover electric dishwasher
   The Conover Co.
   $160.00. Department stores

75. Health scale number 711
   Hanson Scale Co.
   $12.95. Department and hardware stores

76. Toastmaster, automatic electric toaster
   Waters-Genter Co. Division of McGraw
   Electric Co.
   $85.00. Tumbridge Sales Corp., N. Y.

77. Wallenmaster, automatic electric waffle
   baker
   Waters-Genter Co. Division of McGraw
   Electric Co.
   $85.00. Tumbridge Sales Corp., N. Y.

78. Range, BG-1, with 4 glass coffee machines
   The Silex Co.
   $56.95. E. B. Latham & Co., New York

79. Tenaket
   The Silex Co.
   $1.25. Department and hardware stores

80. Cafex
   The Silex Co.
   $2.95. Department and hardware stores

81. Door knob and lock
   P. & F. Corbin
   Howe & Lescaze, designers
   $14.75

82. Door knob and lock
   P. & F. Corbin
   $13.00

83. Loose joint hinges
   P. & F. Corbin
   $4.50 a pair

84. Olive hinges
   P. & F. Corbin
   $3.15 a pair

85. Yale Junior Lock
   Yale & Towne Mfg. Co.
   604. Hardware stores

87. Dictaphone, model 12
   Dictaphone Corp.
   Stanford Briggs, designer
   $200.00

88. National cash register, model 1934
   The National Cash Register Co.
   $325.00

89. Tulip drinking cup dispenser, equipped with
   aluminum tube for airplane, railroad
   and steamship service
   Lily-Tulip Cup Corp.
   $3.00

90. Tulip soda cup dispenser
   Lily-Tulip Cup Corp.
   $6.85

91. York round door chest, model 480
   York Safe and Lock Co.

92. Grain of wheat lamp
   Westinghouse Electric & Mfg. Co.

93. Automobile tail-light lamp
   Westinghouse Electric & Mfg. Co.

94. Automobile head-light lamp
   Westinghouse Electric & Mfg. Co.

95. 10 W. 5-11 lamp
   Westinghouse Electric & Mfg. Co.

96. 100 W. 7-8 lamp
   Westinghouse Electric & Mfg. Co.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Supplier</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>97.</td>
<td>300 W. T-10 lamp</td>
<td>Westinghouse Electric &amp; Mfg. Co.</td>
<td>$97.30</td>
</tr>
<tr>
<td>98.</td>
<td>500 W. T-20 lamp</td>
<td>Westinghouse Electric &amp; Mfg. Co.</td>
<td>$100.00</td>
</tr>
<tr>
<td>99.</td>
<td>250 W. G-30 lamp</td>
<td>Westinghouse Electric &amp; Mfg. Co.</td>
<td>$102.00</td>
</tr>
<tr>
<td>100.</td>
<td>1000 W. G-40 lamp</td>
<td>Westinghouse Electric &amp; Mfg. Co.</td>
<td>$101.00</td>
</tr>
<tr>
<td>101.</td>
<td>5000 W. bipost base lamp</td>
<td>Westinghouse Electric &amp; Mfg. Co.</td>
<td>$102.00</td>
</tr>
<tr>
<td>102.</td>
<td>10,000 W. lamp</td>
<td>Westinghouse Electric &amp; Mfg. Co.</td>
<td>$103.00</td>
</tr>
</tbody>
</table>

### 3. KITCHENWARE

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Supplier</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>105.</td>
<td>Wear-Ever steam jacketed kettle</td>
<td>The Aluminum Cooking Utensil Co.</td>
<td>$236.00</td>
</tr>
<tr>
<td>106.</td>
<td>Stock pot, Staybrite nonoxyd metalware</td>
<td>L. D. Cahn Co.</td>
<td>$47.00</td>
</tr>
<tr>
<td>107.</td>
<td>Stock pots, rustless steel</td>
<td>Polar Ware Co.</td>
<td>$36.00 to $50.00</td>
</tr>
<tr>
<td>108.</td>
<td>Wear-Ever stock pots</td>
<td>The Aluminum Cooking Utensil Co.</td>
<td>$6.50 to $12.15</td>
</tr>
<tr>
<td>109.</td>
<td>Bain Marie pots, rustless steel</td>
<td>Polar Ware Co.</td>
<td>$6.30 to $6.60</td>
</tr>
<tr>
<td>110.</td>
<td>Hotel pan, rustless steel</td>
<td>Polar Ware Co.</td>
<td>$5.10</td>
</tr>
<tr>
<td>111.</td>
<td>Wear-Ever hotel sauté pans</td>
<td>The Aluminum Cooking Utensil Co.</td>
<td>$3.30 to $7.45</td>
</tr>
<tr>
<td>112.</td>
<td>Crusader hotel sauce pans</td>
<td>Lalance &amp; Grosjean Mfg. Co.</td>
<td>$6.70 to $25.00</td>
</tr>
<tr>
<td>113.</td>
<td>Crusader hotel ladles</td>
<td>Lalance &amp; Grosjean Mfg. Co.</td>
<td>$1.08 to $4.45</td>
</tr>
<tr>
<td>114.</td>
<td>Wear-Ever bakers’ mixing bowl</td>
<td>The Aluminum Cooking Utensil Co.</td>
<td>$4.85</td>
</tr>
<tr>
<td>115.</td>
<td>Crusader bakers’ bowls</td>
<td>Lalance &amp; Grosjean Mfg. Co.</td>
<td>$25.00 to $64.75</td>
</tr>
<tr>
<td>116.</td>
<td>Wear-Ever food containers</td>
<td>The Aluminum Cooking Utensil Co.</td>
<td>93c to $3.55. Department stores</td>
</tr>
<tr>
<td>117.</td>
<td>Wear-Ever food bowls</td>
<td>The Aluminum Cooking Utensil Co.</td>
<td>50c to 65c. Department stores</td>
</tr>
<tr>
<td>119.</td>
<td>Crusader malted milk shaker</td>
<td>Lalance &amp; Grosjean Mfg. Co.</td>
<td>$4.15. Department stores</td>
</tr>
<tr>
<td>120.</td>
<td>Solid ladle, Staybrite nonoxyd metalware</td>
<td>L. D. Cahn Co.</td>
<td>$2.25</td>
</tr>
<tr>
<td>121.</td>
<td>Dipper</td>
<td>Polar Ware Co.</td>
<td>$7.50</td>
</tr>
<tr>
<td>122.</td>
<td>Apple cup</td>
<td>Polar Ware Co.</td>
<td>$1.60</td>
</tr>
<tr>
<td>123.</td>
<td>Frying pans</td>
<td>Polar Ware Co.</td>
<td>$5.00 and $6.00</td>
</tr>
</tbody>
</table>

*Note: Items marked with an asterisk (*) are available in various sizes and quantities.*
KITCHENWARE—Continued

129. French fryers
   Revere Copper & Brass Inc. Rome
   Manufacturing Division
   $1.80 and $2.00. Department stores

130. Skillet
   Revere Copper & Brass Inc. Rome
   Manufacturing Division
   $2.00. Department stores

*131. Stewpans, black enamel
   Imported by Markt & Hammacher
   75¢ to $1.35. Lewis & Conger

*132. Saucepans
   Revere Copper & Brass Inc. Rome
   Manufacturing Division
   $1.80 to $2.20. Department stores

133. Mixing bowls, black enamel
   Imported by Markt & Hammacher
   $2.15. Lewis & Conger

134. Mixing bowls
   Polar Ware Co.
   $3.00 to $8.00

*135. Mixing bowls
   Revere Copper & Brass Inc. Rome
   Manufacturing Division
   90¢ to $1.30. Department stores

136. Crusader cup
   Lalance & Grosjean Mfg. Co.
   $1.84. Department stores

*137. Wear-Ever round cake pans
   The Aluminum Cooking Utensil Co.
   30¢ to 45¢. Department stores

138. Wear-Ever ring cake mold
   The Aluminum Cooking Utensil Co.
   $1.00. Department stores

139. Wear-Ever fruit press
   The Aluminum Cooking Utensil Co.
   93¢. Department stores

140. Wear-Ever tea kettle
   The Aluminum Cooking Utensil Co.
   Laurelle V. A. Guild, designer
   $2.95. Department stores

141. Wear-Ever drip coffee pot
   The Aluminum Cooking Utensil Co.
   Laurelle V. A. Guild, designer
   $1.65. Department stores

*142. Wear-Ever griddle
   The Aluminum Cooking Utensil Co.
   $3.95. Department stores

*143. Beverage tumblers, rustless steel
   Polar Ware Co.
   90¢

*144. Bathroom tumblers, rustless steel
   Polar Ware Co.
   $1.75

*145. Imported cook's knives
   Lent by Lewis & Conger
   $2.34 and $3.25

*146. Imported cook's fork
   Lent by Lewis & Conger
   $1.88

*147. Imported slicers
   Lent by Lewis & Conger
   $2.00 to $4.50

148. Square coffee jars
   Owens-Illinois Glass Co.

*149. Nestrite paper containers
   Lily-Tulip Cup Corp.

150. Nestrite paper tubs
   Lily-Tulip Cup Corp.

*151. Squat Nestrite containers
   Lily-Tulip Cup Corp.

Hospital Supplies

*152. Needle box, rustless steel
   Polar Ware Co.
   $3.70

153. Serum cup
   The Aluminum Cooking Utensil Co.
   20¢

154. Sputum cup with hinged cover, Staybrite nonoxyd metalware
   L. D. Cahn Co.
   $3.00

*155. Graduated measure, Staybrite nonoxyd metalware
   L. D. Cahn Co.
   $5.50

156. Sponge bowl, rustless steel
   Polar Ware Co.
   $2.00
4. HOUSE FURNISHINGS AND ACCESSORIES

157. Dinner knives, Covington Plain pattern
   The Gorham Co.
   A reproduction of an old English design by W. C. Codman
   $41.00 per dozen. Silversmiths and department stores

158. Dinner forks, Covington Plain pattern
   The Gorham Co.
   A reproduction of an old English design by W. C. Codman
   $50.00 per dozen. Silversmiths and department stores

159. Teaspoons, Covington Plain pattern
   The Gorham Co.
   A reproduction of an old English design by W. C. Codman
   $21.00 per dozen. Silversmiths and department stores

160. Dessert spoons, Covington Plain pattern
   The Gorham Co.
   A reproduction of an old English design by W. C. Codman
   $37.00 per dozen. Silversmiths and department stores

161. Dessert knives, Covington Plain pattern
   The Gorham Co.
   A reproduction of an old English design by W. C. Codman
   $37.00 per dozen. Silversmiths and department stores

162. Dessert forks, Covington Plain pattern
   The Gorham Co.
   A reproduction of an old English design by W. C. Codman
   $37.00 per dozen. Silversmiths and department stores

163. Coffee spoons, Covington Plain pattern
   The Gorham Co.
   A reproduction of an old English design by W. C. Codman
   $14.00 per dozen. Silversmiths and department stores

164. Dinner knives, Dolly Madison pattern
   The Gorham Co.
   Original early American design by A. H. Staf
   $49.00 per dozen. Silversmiths and department stores

165. Dinner forks, Dolly Madison pattern
   The Gorham Co.
   Original early American design by A. H. Staf
   $52.00 per dozen. Silversmiths and department stores

166. Teaspoons, Dolly Madison pattern
   The Gorham Co.
   Original early American design by A. H. Staf
   $21.00 per dozen. Silversmiths and department stores

167. Dessert spoons, Dolly Madison pattern
   The Gorham Co.
   Original early American design by A. H. Staf
   $46.00 per dozen. Silversmiths and department stores

168. Dessert knives, Dolly Madison pattern
   The Gorham Co.
   Original early American design by A. H. Staf
   $39.00 per dozen. Silversmiths and department stores

169. Dessert forks, Dolly Madison pattern
   The Gorham Co.
   Original early American design by A. H. Staf
   $44.00 per dozen. Silversmiths and department stores

170. Coffee spoons, Dolly Madison pattern
   The Gorham Co.
   Original early American design by A. H. Staf
   $12.00 per dozen. Silversmiths and department stores

171. Windsor teaspoons, chromium
   Lent by Lewis & Conger
   25¢ each

172. Windsor dessert spoons, chromium
   Lent by Lewis & Conger
   42¢ each

173. Windsor table spoons, chromium
   Lent by Lewis & Conger
   48¢ each

174. Crystal bread and butter plate
   Fostoria Glass Co.
   $4.00 per dozen. Department stores and gift shops

175. Crystal salad plate
   Fostoria Glass Co.
   $5.00 per dozen. Department stores and gift shops

176. Crystal dinner plate
   Fostoria Glass Co.
   $7.00 per dozen. Department stores and gift shops
177. Crystal service plate
   Fostoria Glass Co.
   $15.00 per dozen. Department stores and
   gift shops

*178. White porcelain bread and butter plate
   Lenox Inc.
   $13.25 per dozen. Department stores and
   gift shops

*179. White porcelain luncheon plate
   Lenox Inc.
   $16.00 per dozen. Department stores and
   gift shops

*180. White porcelain dinner plate
   Lenox Inc.
   $19.00 per dozen. Department stores and
   gift shops

*181. White porcelain service plate
   Lenox Inc.
   $21.00 per dozen. Department stores and
   gift shops

182. White porcelain sandwich or cake plate
   Lenox Inc.
   $3.50. Department stores and gift shops

183. Tumblers, crystal with sham bottoms
   Fostoria Glass Co.
   $3.50 per dozen. Department stores and
   gift shops

184. Tumblers, crystal with sham bottoms
   Fostoria Glass Co.
   $4.50 per dozen. Department stores and
   gift shops

*185. Tumblers, blue glass
   Fostoria Glass Co.
   $2.50 per dozen. Department stores and
   gift shops

*186. Tumblers, burgundy glass
   Fostoria Glass Co.
   $2.50 per dozen. Department stores and
   gift shops

187. Liqueur tumblers, crystal with sham bot-
   toms
   Fostoria Glass Co.
   $2.00 per dozen. Department stores and
   gift shops

188. Cocktail glass
   Corning Glass Works—Steuben Division
   Walter Dorwin Teague, designer
   $2.00 each. Steuben Glass, Inc., 748 Fifth
   Avenue

189. Old-Fashioned cocktail glass
   Corning Glass Works—Steuben Division
   Walter Dorwin Teague, designer
   $2.00 each. Steuben Glass, Inc., 748 Fifth
   Avenue

190. Whisky glasses
   Fostoria Glass Co.
   $5.50 per dozen. Department stores and
   gift shops

191. Baccarat ale glass
   Lent by Lewis & Conger
   $8.50 per dozen

192. Baccarat ale glass
   Lent by Lewis & Conger
   $10.00 per dozen

193. Baccarat champagne tumbler
   Lent by Lewis & Conger
   $5.50 per dozen

194. Baccarat claret glass
   Lent by Lewis & Conger
   $9.75 per dozen

195. Baccarat cocktail glass
   Lent by Lewis & Conger
   $9.75 per dozen

196. Baccarat cordial glass
   Lent by Lewis & Conger
   $8.75 per dozen

197. Baccarat goblet
   Lent by Lewis & Conger
   $14.75 per dozen

198. Baccarat sherry glass
   Lent by Lewis & Conger
   $10.50 per dozen

199. Baccarat tumbler
   Lent by Lewis & Conger
   $7.50 per dozen

200. Baccarat whisky glass
   Lent by Lewis & Conger
   $5.50 per dozen

201. Baccarat whisky and soda glass
   Lent by Lewis & Conger
   $6.25 per dozen

202. Holland glass brandy inhalers
   Lent by Ovington's
   $18.00 per dozen

203. Cocktail glasses
   Lent by Ovington's

204. Tumblers
   Lent by Ovington's

205. Martini mixer
   Lent by Carol Stupell
   $3.50
HOUSE FURNISHINGS AND ACCESSORIES—Continued

206. Condiment bottles
Russel Wright Studio
Russel Wright, designer
$2.00 each. Department stores and gift shops

*207. Salad bowl, wood
Russel Wright Studio
Russel Wright, designer
$3.30 each. Department stores and gift shops

*208. Berry bowl, wood
Russel Wright Studio
Russel Wright, designer
$3.00 each. Department stores and gift shops

*209. Small berry bowls, wood
Russel Wright Studio
Russel Wright, designer
$1.60 each. Department stores and gift shops

210. Baccarat fingerbowl and plate
Lent by Lewis & Conger
$33.00 per dozen

211. Cream jars
Owens-Illinois Glass Co.

*212. Oblong perfume bottles
Owens-Illinois Glass Co.

*213. Taper round bottles
Owens-Illinois Glass Co.

*214. Jar with cover
Owens-Illinois Glass Co.

215. Wide-mouthed French squares
Owens-Illinois Glass Co.

216. Chromium tray
The Bingham Stamping & Tool Co.
R. Aberli Jr., 225 Fifth Avenue
$1.50

217. Copper tray
The Bingham Stamping & Tool Co.
R. Aberli Jr., 225 Fifth Avenue
$1.50

218. Serving tray, chromium
Chase Brass & Copper Co., Inc. Specialty Sales Division
$6.00. Department stores and gift shops

219. Serving trays, copper
Chase Brass & Copper Co., Inc. Specialty Sales Division
$6.00. Department stores and gift shops

*220. Tray, chromium
Chase Brass & Copper Co., Inc. Specialty Sales Division
Walter Von Nessen, designer
$4.00. Department stores and gift shops

221. Tray, copper
Chase Brass & Copper Co., Inc. Specialty Sales Division
Walter Von Nessen, designer
$4.00. Department stores and gift shops

222. Flower bowl, copper
Chase Brass & Copper Co., Inc. Specialty Sales Division
Walter Von Nessen, designer
$8.00. Department stores and gift shops

*223. Pretzel bowl, copper
Chase Brass & Copper Co., Inc. Specialty Sales Division
$2.00. Department stores and gift shops

*224. Pretzel bowl, chromium
Chase Brass & Copper Co., Inc. Specialty Sales Division
$2.00. Department stores and gift shops

225. Pretzel bowl, chromium
Chase Brass & Copper Co., Inc. Specialty Sales Division
$2.00. Department stores and gift shops

226. Bowl
Corning Glass Works—Steuben Division
Frederick Carder, designer
$6.00. Steuben Glass, Inc., 748 Fifth Avenue

*227. Bowl
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
Steuben Glass, Inc., 748 Fifth Avenue

*228. Bowl
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
Steuben Glass, Inc., 748 Fifth Avenue

229. Large crystal plate, 16" diameter
Fostoria Glass Co.
$3.50. Department stores and gift shops

230. Bowl, wood
Russel Wright Studio
Russel Wright, designer
$5.00. Department stores and gift shops

231. Copper bowls
Revere Copper & Brass Inc., Rome Mfg. Division
50¢ and 75¢. Department stores and gift shops

*232. White porcelain vases
Lenox Inc.
$1.50, $2.50, $3.00. Department stores and gift shops

233. Crystal vases
Fostoria Glass Co.
$2.50 and $3.00. Department stores and gift shops
234. Vase, square
Corning Glass Works—Steuben Division
Frederick Carder, designer
$3.50. Steuben Glass, Inc., 748 Fifth Ave.

235. Vase, spherical
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
$8.50. Steuben Glass, Inc., 748 Fifth Ave.

236. Vase, rectangular
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
$5.00. Steuben Glass, Inc., 748 Fifth Ave.

237. Vases
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
$2.75 to $3.75. Steuben Glass, Inc., 748 Fifth Avenue

238. Black glass vases
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
$2.75 to $3.75. Steuben Glass, Inc., 748 Fifth Avenue

239. Plates, chromium and copper
Chase Brass & Copper Co., Inc. Specialty Sales Division
Department stores and gift shops

240. Centerpiece
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
$30.00. Steuben Glass, Inc., 748 Fifth Avenue

241. Ash tray
Lent by Arundell Clarke Ltd.
$2.50

242. Ash tray
Corning Glass Works—Steuben Division
Frederick Carder, designer
$7.50. Steuben Glass, Inc., 748 Fifth Ave.

243. Ash tray set
Fostoria Glass Co.
$6.00 per dozen. Department stores and gift shops

244. Ash bowl, stainless steel
Platinel Inc.
$9.50

245. Ash tray, copper
Revere Copper & Brass Inc. Rome Mfg. Division
25¢. Department stores and gift shops

246. Ash tray, chromium
Kurt Versen
$1.60

247. Dunhill's Bruyère straight grain pipe
Alfred Dunhill of London, Inc.
$50.00. Dunhill shops, tobacco shops and department stores

248. Meerschaum pipe
Alfred Dunhill of London, Inc.
$25.00. Dunhill shops, tobacco shops and department stores

249. Tall wafer cigarette lighter
Alfred Dunhill of London, Inc.
$10.00. Dunhill shops, tobacco shops and department stores

250. Giant cigarette lighter
Alfred Dunhill of London, Inc.
$15.00. Dunhill shops, tobacco shops and department stores

251. Ball cigarette lighter
Alfred Dunhill of London, Inc.
$15.00. Dunhill shops, tobacco shops and department stores

252. Cigar case
Alfred Dunhill of London, Inc.
$22.50. Dunhill shops, tobacco shops and department stores

253. Bomb Rumidor
Distillers Products Corp.
$7.00. Department stores and tobacco shops

254. Lektronite cigarette lighter, Cylinda model "B", sterling silver
Platinum Products Co.
$12.00. Department stores and gift shops

255. Lektronite cigarette lighter and pencil, sterling silver
Platinum Products Co.
$25.00. Department stores and gift shops

256. Cigarette box
Corning Glass Works—Steuben Division
Frederick Carder, designer
$1.50. Steuben Glass, Inc., 748 Fifth Ave.

257. Inkstand and calendar
I. S. Pertofsky
$32.00. Howe & Lescaze, architects

258. Braquette picture frame, portrait type
Design Engineers, Inc.
Nathan George Horwitt, designer
$2.50. Eastman Kodak stores

259. Braquette picture frame, standard type
Design Engineers, Inc.
Nathan George Horwitt, designer
$2.00. Eastman Kodak stores
HOUSE FURNISHINGS AND ACCESSORIES—Continued

260. Bomb flashlight
Chase Brass & Copper Co., Inc. Specialty Sales Division
$1.00. Department stores and gift shops

265. Luxmir Shaving Mirror
Lent by Ovington's
$12.50

266. Imported chromium scent bottles in leather case
Lent by Saks-Fifth Avenue
$7.50

267. Man's fitted case
Lent by Saks-Fifth Avenue
$6.50

268. Billiard balls
Lent by Saks-Fifth Avenue
$7.50

269. Silverice (for chilling drinks)
Lent by Saks-Fifth Avenue
$2.50 for box of six

270. Electric clock
Herman Miller Clock Co.
Gilbert Rohde, designer
$16.50. Department stores and gift shops

271. Westclox handbag watch, bakelite case
Western Clock Co.
De Vaulcher & Blow, designers
$2.95. Department stores, gift shops, drug stores

272. Magnetric clock
Jaeger Watch Co.
Jaeger Watch Co., designers, in collaboration with the Art and Color section of the Fisher Body Corp. for General Motors

273. Desk lamp
Kurt Versen
Howe & Lescaze, designers
$31.00

274. Ceiling fixture with white opal glass bowl
Kurt Versen
$14.00

275. Pendant sphere lighting fixtures
Kurt Versen
$15.00 to $34.00

276. Tubular wall bracket
Kurt Versen
$22.00

277. Wall bracket light with cylindrical bowl
Kurt Versen
$17.00

278. Wall bracket light with hemispherical bowl
Kurt Versen
$19.00

279. Chair
Thonet Bros., Inc.
Marcel Breuer, designer
$20.50

280. Chair
Thonet Bros., Inc.
Le Corbusier, designer
$63.00

281. Nest tables
Thonet Bros., Inc.
$29.50

282. Beta chair
The Howell Co. (Brown & Nightingale, New York distributors)
Nathan George Horwitt, designer
$30.00. Department and furniture stores

283. Chair, number 444
The Howell Co. (Brown & Nightingale, New York distributors)
$40.00. Department and furniture stores

284. Lounge chair, number 439
The Howell Co. (Brown & Nightingale, New York distributors)
$50.00. Department and furniture stores

285. Chair, number 477
The Howell Co. (Brown & Nightingale, New York distributors)
$30.00. Department and furniture stores

286. Chair, number 441
The Howell Co. (Brown & Nightingale, New York distributors)
$20.00. Department and furniture stores
5. SCIENTIFIC INSTRUMENTS

288. Johansson third measuring instrument, used in 1898
Ford Motor Co. (Standard Gage Co.)
Louis C. Eitzen Co., New York

*289. Vernier depth gauge number 600
Brown & Sharpe of New York, Inc.
$16.85. Hardware stores

290. Rule depth gauge number 616
Brown & Sharpe of New York, Inc.
$2.00. Hardware stores

*291. Graduated rod depth gauge number 614
Brown & Sharpe of New York, Inc.
$4.50. Hardware stores

*292. Plain English micrometer number 8
Brown & Sharpe of New York, Inc.
$9.50. Hardware stores

*293. Inside micrometer number 263
Brown & Sharpe of New York, Inc.
$7.50. Hardware stores

*294. Outside firm joint caliper number 821
Brown & Sharpe of New York, Inc.
60 cents. Hardware stores

*295. Caliper square with adjusting screw number 560
Brown & Sharpe of New York, Inc.
$10.20. Hardware stores

296. Caliper rule number 391
Brown & Sharpe of New York, Inc.
$5.00. Hardware stores

297. Slide caliper rule number 385
Brown & Sharpe of New York, Inc.
$2.50. Hardware stores

298. Pocket slide caliper rule number 388
Brown & Sharpe of New York, Inc.
$4.00. Hardware stores

299. Flexible stainless steel rule number 356
Brown & Sharpe of New York, Inc.
$1.35. Hardware stores

300. Narrow tempered steel rule number 303
Brown & Sharpe of New York, Inc.
90c. Hardware stores

301. Rule with slide number 380
Brown & Sharpe of New York, Inc.
$2.00. Hardware stores

302. Hardened and ground steel parallel number 920
Brown & Sharpe of New York, Inc.
$4.00. Hardware stores

303. Hardened steel straight edge number 527
Brown & Sharpe of New York, Inc.
$1.00. Hardware stores

304. Hardened cast steel try squares number 540
Brown & Sharpe of New York, Inc.
$3.60 to $4.50. Hardware stores

305. Adjustable square complete number 554
Brown & Sharpe of New York, Inc.
$4.20. Hardware stores

306. Graduated steel square number 544
Brown & Sharpe of New York, Inc.
$3.90. Hardware stores

*307. Diemakers' square complete number 552
Brown & Sharpe of New York, Inc.
$5.50. Hardware stores

308. Indicator number 738
Brown & Sharpe of New York, Inc.
$10.00. Hardware stores

309. Speed indicator number 748
Brown & Sharpe of New York, Inc.
$6.75. Hardware stores

*310. Vest pocket speed indicator number 746
Brown & Sharpe of New York, Inc.
$1.50. Hardware stores

*311. 29 degrees worm thread tool gauge number 577
Brown & Sharpe of New York, Inc.
$7.50. Hardware stores

312. Dial gauge number 726
Brown & Sharpe of New York, Inc.
$10.00. Hardware stores

*313. Bevel protractor number 493
Brown & Sharpe of New York, Inc.
$10.50. Hardware stores

*314. Laboratory microscope ESA-105
Carl Zeiss, Inc.
$159.00

315. Research microscope, model L
Carl Zeiss, Inc.
$573.80 (with objectives)

316. Binocular microscope XB
Carl Zeiss, Inc.
$183.05

317. Iris cylinder diaphragm
Carl Zeiss, Inc.
$6.50

318. Abbe apertometer
Carl Zeiss, Inc.
$52.00
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Supplier</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>319</td>
<td>Short magnifier lamp</td>
<td>Carl Zeiss, Inc.</td>
<td>$13.15</td>
</tr>
<tr>
<td>320</td>
<td>Plankton vessel</td>
<td>Carl Zeiss, Inc.</td>
<td>$2.00</td>
</tr>
<tr>
<td>321</td>
<td>Simplified attachable mechanical stage</td>
<td>Carl Zeiss, Inc.</td>
<td>$18.00</td>
</tr>
<tr>
<td>322</td>
<td>Ramsden screw micrometer</td>
<td>Carl Zeiss, Inc.</td>
<td>$44.00</td>
</tr>
<tr>
<td>323</td>
<td>Focusing microscope for photo-engravers</td>
<td>Carl Zeiss, Inc.</td>
<td>$55.00</td>
</tr>
<tr>
<td>324</td>
<td>Folding aplanatic magnifiers</td>
<td>Carl Zeiss, Inc.</td>
<td>$8.15 each</td>
</tr>
<tr>
<td>325</td>
<td>Aplanatic magnifiers</td>
<td>Carl Zeiss, Inc.</td>
<td>$6.90 each; lens ring and handle, $1.90</td>
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<tr>
<td>326</td>
<td>Diaphot</td>
<td>Carl Zeiss, Inc.</td>
<td>$2.20</td>
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<tr>
<td>327</td>
<td>Stereoscope</td>
<td>Carl Zeiss, Inc.</td>
<td>$40.00</td>
</tr>
<tr>
<td>328</td>
<td>Vertical telescope view finder (for Contax camera)</td>
<td>Carl Zeiss, Inc.</td>
<td>$15.40</td>
</tr>
<tr>
<td>329</td>
<td>Telescope, 30 mm.</td>
<td>Carl Zeiss, Inc.</td>
<td>$1.166.25</td>
</tr>
<tr>
<td>330</td>
<td>Hand spectroscope, model A</td>
<td>Carl Zeiss, Inc.</td>
<td>$18.00</td>
</tr>
<tr>
<td>331</td>
<td>Cube of didymium glass</td>
<td>Carl Zeiss, Inc.</td>
<td>$5.00</td>
</tr>
<tr>
<td>332</td>
<td>Blood sugar colorimeter</td>
<td>Carl Zeiss, Inc.</td>
<td>$27.50</td>
</tr>
<tr>
<td>333</td>
<td>Sugar and oil refractometer</td>
<td>Carl Zeiss, Inc.</td>
<td>$211.20</td>
</tr>
<tr>
<td>334</td>
<td>Pulfrich refractometer</td>
<td>Carl Zeiss, Inc.</td>
<td>$458.40</td>
</tr>
<tr>
<td>335</td>
<td>Juerst ebulliometer</td>
<td>Eimer &amp; Amend</td>
<td>$75.00</td>
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<tr>
<td>336</td>
<td>MacMichael viscosimeter</td>
<td>Eimer &amp; Amend</td>
<td>$210.00</td>
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<tr>
<td>337</td>
<td>Small vertex refractionometer</td>
<td>Carl Zeiss, Inc.</td>
<td>$115.00</td>
</tr>
<tr>
<td>338</td>
<td>Demonstration attachment for cystoscopes</td>
<td>Carl Zeiss, Inc.</td>
<td>$90.00</td>
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<tr>
<td>339</td>
<td>Polarimeter with circular scale</td>
<td>Carl Zeiss, Inc.</td>
<td>$186.25</td>
</tr>
<tr>
<td>340</td>
<td>Pocket polarimeter</td>
<td>Carl Zeiss, Inc.</td>
<td>$83.25</td>
</tr>
<tr>
<td>341</td>
<td>Triple mirror for light signals</td>
<td>Carl Zeiss, Inc.</td>
<td></td>
</tr>
<tr>
<td>342</td>
<td>Prism</td>
<td>Holophane Co.</td>
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<tr>
<td>343</td>
<td>Controlenses</td>
<td>Holophane Co.</td>
<td></td>
</tr>
<tr>
<td>344</td>
<td>Adjustable curve number 2160</td>
<td>Eugene Dietzgen Co., Inc.</td>
<td>$2.25</td>
</tr>
<tr>
<td>345</td>
<td>Adjustable curve number 2161 A</td>
<td>Eugene Dietzgen Co., Inc.</td>
<td>$2.65</td>
</tr>
<tr>
<td>346</td>
<td>Wood blackboard outfit: arc, protractor, T-square, and triangle</td>
<td>Eugene Dietzgen Co., Inc.</td>
<td>$5.70</td>
</tr>
<tr>
<td>347</td>
<td>Protractor, nickel silver</td>
<td>Eugene Dietzgen Co., Inc.</td>
<td>$41.80</td>
</tr>
<tr>
<td>348</td>
<td>Protractor, steel</td>
<td>Eugene Dietzgen Co., Inc.</td>
<td>$10.00</td>
</tr>
<tr>
<td>349</td>
<td>Slide rule</td>
<td>Eugene Dietzgen Co., Inc.</td>
<td>$10.55</td>
</tr>
<tr>
<td>350</td>
<td>Pocket sight compass</td>
<td>Eugene Dietzgen Co., Inc.</td>
<td>$9.35</td>
</tr>
<tr>
<td>351</td>
<td>Short &amp; Mason miner’s compass</td>
<td>Taylor Instrument Companies</td>
<td>$10.00.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department, optical and hardware stores</td>
<td></td>
</tr>
</tbody>
</table>
SCIENTIFIC INSTRUMENTS—Continued

*352. Brass plumb bob
   Eugene Dietzgen Co., Inc.
   $1.90

353. Mercury plumb bob number 790
   Brown & Sharpe of New York, Inc.
   $3.60. Hardware stores

354. DX Projection type ammeter
   Westinghouse Electric & Mfg. Co.

355. DX Projection type rectox voltmeter
   Westinghouse Electric & Mfg. Co.

356. PY-5 a.c. portable voltmeter
   Westinghouse Electric & Mfg. Co.

357. Stroboscopic clock motor testing board
   Westinghouse Electric & Mfg. Co.

358. Light meter
   Westinghouse Electric & Mfg. Co.

*359. Dental instruments
   The S. S. White Dental Mfg. Co.

*360. Dietometer
   Eimer & Amend
   $9.00

*361. Torsion prescription scale number 285
   The Torsion Balance Co.
   $80.00

362. Micronax recording potentiometer
   Leeds & Northrup Co., Philadelphia
   $230.00

363. Brown indicating flowmeter number 2020
   The Brown Instrument Co., Philadelphia
   $108.75

364. Altitude barometer
   Taylor Instrument Companies
   $42.00. Department, optical and hardware stores

*365. Anemometer
   Taylor Instrument Companies
   $50.00. Department, optical and hardware stores

*366. X-ray unit, model “B”, stationary type
   Bitter Dental Mfg. Co., Inc.
   $820.00
### 6. LABORATORY GLASS AND PORCELAIN

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>367.</td>
<td>Crystallizing dishes</td>
<td>Corning Glass Works 45¢ to $1.25. Eimer &amp; Amend</td>
</tr>
<tr>
<td>368.</td>
<td>Boiling flasks</td>
<td>Corning Glass Works 57¢ to $3.30. Eimer &amp; Amend</td>
</tr>
<tr>
<td>369.</td>
<td>Boiling flasks with wicker necks</td>
<td>Corning Glass Works $1.35 and $1.55. Eimer &amp; Amend</td>
</tr>
<tr>
<td>370.</td>
<td>Erlemeyer flasks</td>
<td>Corning Glass Works $1.35 and $1.55. Eimer &amp; Amend</td>
</tr>
<tr>
<td>371.</td>
<td>Beakers</td>
<td>Corning Glass Works 18¢ to 50¢. Eimer &amp; Amend</td>
</tr>
<tr>
<td>372.</td>
<td>Reagent bottles</td>
<td>Corning Glass Works 65¢ to $3.00. Eimer &amp; Amend</td>
</tr>
<tr>
<td>373.</td>
<td>Cylindrical jars</td>
<td>Corning Glass Works $1.20 to $10.00. Eimer &amp; Amend</td>
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<tr>
<td>374.</td>
<td>Hydrometer jars</td>
<td>Eimer &amp; Amend 40¢ to $2.75</td>
</tr>
<tr>
<td>375.</td>
<td>Battery jars</td>
<td>Eimer &amp; Amend $4.70 to $13.25</td>
</tr>
<tr>
<td>376.</td>
<td>Battery jars</td>
<td>Corning Glass Works $1.15 to $2.60. Eimer &amp; Amend</td>
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<tr>
<td>377.</td>
<td>Petri dishes</td>
<td>Eimer &amp; Amend 24¢ to 70¢</td>
</tr>
<tr>
<td>378.</td>
<td>Moist chambers</td>
<td>Eimer &amp; Amend $1.40 and $1.80</td>
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<tr>
<td>379.</td>
<td>Stender dishes</td>
<td>Eimer &amp; Amend 50¢ to $2.00</td>
</tr>
<tr>
<td>380.</td>
<td>Flask 500 cc</td>
<td>Eimer &amp; Amend $1.35</td>
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<tr>
<td>381.</td>
<td>Measuring flask</td>
<td>Eimer &amp; Amend $1.60</td>
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<tr>
<td>382.</td>
<td>Measuring cylinder 500 cc</td>
<td>Eimer &amp; Amend $4.25</td>
</tr>
<tr>
<td>383.</td>
<td>Weighing bottles</td>
<td>Eimer &amp; Amend 30¢ to $1.60</td>
</tr>
<tr>
<td>384.</td>
<td>Shaking flask</td>
<td>Eimer &amp; Amend $1.20</td>
</tr>
<tr>
<td>385.</td>
<td>B jar</td>
<td>Eimer &amp; Amend $8.00</td>
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<tr>
<td>386.</td>
<td>Bell jar and frame</td>
<td>Eimer &amp; Amend $16.00</td>
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<tr>
<td>387.</td>
<td>Generating bottle</td>
<td>Eimer &amp; Amend $2.35</td>
</tr>
<tr>
<td>388.</td>
<td>Culture flask</td>
<td>Corning Glass Works 65¢. Eimer &amp; Amend</td>
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<tr>
<td>389.</td>
<td>Roux culture flask</td>
<td>Corning Glass Works 65¢. Eimer &amp; Amend</td>
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<tr>
<td>390.</td>
<td>Round bottom boiling flask, 72 litres</td>
<td>Corning Glass Works $25.00. Eimer &amp; Amend</td>
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<tr>
<td>391.</td>
<td>Solution bottle</td>
<td>Corning Glass Works $4.00. Eimer &amp; Amend</td>
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<tr>
<td>392.</td>
<td>Watch glass</td>
<td>Eimer &amp; Amend 60¢</td>
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<tr>
<td>393.</td>
<td>Scorifiers</td>
<td>Eimer &amp; Amend 60¢</td>
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<tr>
<td>394.</td>
<td>Retort</td>
<td>Corning Glass Works $3.60. Eimer &amp; Amend</td>
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<tr>
<td>395.</td>
<td>Capsules</td>
<td>Coors Porcelain Co. 15¢ to 25¢. Eimer &amp; Amend</td>
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<tr>
<td>396.</td>
<td>Rings</td>
<td>Coors Porcelain Co. $9.95. Eimer &amp; Amend</td>
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<tr>
<td>Item</td>
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<tr>
<td>397</td>
<td>Dish</td>
<td>Coors Porcelain Co.</td>
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<td></td>
<td></td>
<td>Eimer &amp; Amend</td>
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<tr>
<td>398</td>
<td>Beakers</td>
<td>Coors Porcelain Co.</td>
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<tr>
<td></td>
<td></td>
<td>Eimer &amp; Amend</td>
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<tr>
<td>399</td>
<td>Petri covers</td>
<td>Coors Porcelain Co.</td>
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<td></td>
<td>Eimer &amp; Amend</td>
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<tr>
<td>400</td>
<td>Jar</td>
<td>Coors Porcelain Co.</td>
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<td>Eimer &amp; Amend</td>
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<tr>
<td>401</td>
<td>Sample oil bottles</td>
<td>Owens-Illinois Glass Co.</td>
</tr>
<tr>
<td>402</td>
<td>Jar and cover</td>
<td>Eimer &amp; Amend</td>
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1. Industrial Units

Illustrations
1

Bearing spring
American Steel & Wire Co.
Subsidiary United States Steel Corp.

2

Section of spring
American Steel & Wire Co.
Subsidiary United States Steel Corp.
5. 6
Typewriter carriage spring and motor spring
American Steel & Wire Co.
Subsidiary United States Steel Corp.

Section of wire rope \(3\frac{3}{8}\)" in diameter
American Steel & Wire Co.
Subsidiary United States Steel Corp.
Self-aligning ball bearing
SKF Industries
Outboard propeller
Aluminum Company of America
Gasoline pumps
Standard Oil Company of Ohio
2. Household and Office Equipment

Illustrations
Electrol-Kewanee heating unit, model 10
Electrol, Inc.
Gerth & Gerth, designers
$857.00
Lavatory panel of the Arco panel unit system, equipped with special tubular fittings

The Accessories Co., Inc.
Division of American Radiator Co.

George Sakier, designer

Panel: $60.00; Standard Sanitary lavatory: $50.00.
Licensed plumbers
Electrochef range, model B-2
Electromaster Inc., Detroit, Michigan
Emil Piron, designer
$110.00
Streamline Monel metal sink
The International Nickel Co., Inc.
Gustav Jensen, designer
$193.50. Licensed plumbers

Electric plate warmer, White House Line
Janes & Kirtland, Inc.
$100.00. Department stores
71

Fay electric floor machine, Diamond model
The Fay Co.
$65.00. Department, furniture and hardware stores

72

Hamilton Beach vacuum cleaner, model 8
Hamilton Beach Mfg. Co.
Subsidiary Scovill Mfg. Co.
$34.75. Department, furniture and hardware stores
Health scale, number 711
Hanson Scale Co.
$12.95. Department and hardware stores

Silver Streak carpet sweeper
Bissell Carpet Sweeper Co.
$5.00. Department, furniture and hardware stores
Flush valve
Scovill Mfg. Co.
Plumbers' Brass Goods Division
Licensed plumbers

Niedecken mixer faucet
Hoffmann & Billings Mfg. Co.
$25.00 Henry Stein, 50 Cliff St.
Wafflemaster, automatic electric waffle baker
Waters-Genter Co.
Division of McGraw Electric Co.
$85.00. Tumbridge Sales Corp.

Toastmaster, automatic electric toaster
Waters-Genter Co.
Division of McGraw Electric Co.
$85.00. Tumbridge Sales Corp.
87
Dictaphone, model 12
Dictaphone Corp.
$200.00. Dictaphone Sales Corp.

88
National Cash Register, model 1934
The National Cash Register Co.
$325.00
York round door chest, model 430
York Safe and Lock Co.

Yale junior lock
Yale & Towne Mfg. Co.
60¢. Hardware stores
Range with 4 glass coffee machines
The Silex Co.
$56.95.  E. B. Latham & Co.

Door knob and lock
P. & F. Corbin
Howe & Lescaze, designers
$14.75
3. Kitchenware

Illustrations
Crusader hotel sauce pots
Lalance & Grosjean Mfg. Co.
$14.55 to $31.65.
Crusader hotel ladles
Lalance & Grosjean Mfg. Co.
$1.08 to $4.45

Crusader bakers' bowl
Lalance & Grosjean Mfg. Co.
$25.00 to $64.75
Stewpans
Imported by Markt & Hammacher
75¢ to $1.35. Lewis & Conger

Mixing bowls
Revere Copper & Brass Inc.
Rome Mfg. Division
90¢ to $1.30. Department stores
155
Graduated measures, Staybrite nonoxyd metalware
L. D. Cahn Co.

132
Saucepan
Revere Copper & Brass Inc.
Rome Mfg. Division
$1.80 to $2.20, Department stores
Beverage and bathroom tumblers, rustless steel
Polar Ware Co.
90¢ and $1.65

Nestrite paper containers
Lily-Tulip Cup Corp.
Imported cooks' knives and slicers
Lewis & Conger
$2.00 to $4.50

Imported cooks' fork
Lewis & Conger
$1.88

Needle box, rustless steel
Polar Ware Co.
$3.70
137
Wear-Ever round cake pans
The Aluminum Cooking Utensil Co.
30% to 50%
Department stores

140
Wear-Ever tea kettle
The Aluminum Cooking Utensil Co.
Lurelle V. A. Guild, designer
$2.95. Department stores
Wear-Ever food containers
The Aluminum Cooking Utensil Co.
93¢ to $3.55. Department stores

Wear-Ever griddle
The Aluminum Cooking Utensil Co.
$3.95. Department stores
4. House Furnishings and Accessories

Illustrations
**160-162**

Dessert spoons, knives and forks, Covington Plain pattern
The Gorham Co.
A reproduction of an old English design by W. C. Codman
Spoons and knives, $37.00 per dozen; forks, $35.00 per dozen
Silversmiths and department stores

**167, 169**

Dessert spoons and forks, Dolly Madison pattern
The Gorham Co.
Original early American design by A. H. Staf
Spoons, $46.00 per dozen; forks, $44.00 per dozen
Silversmiths and department stores
185, 186

Tumblers, Burgundy and blue glass
Fostoria Glass Co.
$2.50 per dozen. Department stores and gift shops

171-173

Windsor chromium teaspoons, dessert spoons and table spoons
Lent by Lewis & Conger
25¢, 42¢ and 48¢ each
Jar with cover
Owens-Illinois Glass Co.
Oblong perfume bottles
Owens-Illinois Glass Co.

Cream jars and taper round bottles
Owens-Illinois Glass Co.
237

Vases
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
$2.75 to $3.75. Steuben Glass, Inc., 748 Fifth Avenue

238

Black glass vases
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
$2.75 to $3.75. Steuben Glass, Inc., 748 Fifth Avenue
White porcelain plates
Lenox Inc.
$13.25 to $21.00 per dozen. Department stores and gift shops

White porcelain vase
Lenox Inc.
$3.00. Department stores and gift shops
225
Pretzel bowl, chromium
Chase Brass & Copper Co., Inc. Specialty Sales Division
$2.00. Department stores and gift shops

223
Flower bowl, copper
Chase Brass & Copper Co., Inc. Specialty Sales Division
Walter Von Nessen, designer
$8.00. Department stores and gift shops
Serving tray, chromium  
Chase Brass & Copper Co., Inc. Specialty Sales Division  
Walter Von Nessen, designer  
$4.00. Department stores and gift shops

Spherical vase  
Corning Glass Works—Steuben Division  
Walter Dorwin Teague, designer  
$8.50. Steuben Glass, Inc., 748 5th Ave.
Wood salad bowl, berry bowl and small berry bowls
Russel Wright Studio
Russel Wright, designer
Salad bowl, $3.30; berry bowl, $3.00; small bowls, $1.60 each
Department stores and gift shops
Bowl
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
$4.25. Steuben Glass, Inc., 748 Fifth Avenue

Bowl
Corning Glass Works—Steuben Division
Walter Dorwin Teague, designer
$42.00 (with octagonal mirror base)
269

Silverice (for chilling drinks)
Lent by Saks-Fifth Avenue
$2.50 for box of six

268

Billiard balls
Lent by Saks-Fifth Avenue
$7.50 in leather box
Inkstand and calendar
I. S. Pertofsky
Howe & Lescaze, designers
$32.00. Howe & Lescaze, architects

Lektrolite Cylinda lighter and Lektrolite pencil lighter, sterling silver
Platinum Products Co.
Cylinda lighter, $12.00; pencil, $25.00.
Department stores and gift shops
Ash tray set  
Fostoria Glass Co.  
$6.00 per dozen. Department stores and gift shops

Ash tray  
Lent by Arundell Clarke, Ltd. 
$2.50
242
Ash tray
Corning Glass Works—
Steuben Division
Frederick Carder,
designer
$7.50. Steuben Glass,
Inc., 748 Fifth Avenue

256
Cigarette box
Corning Glass Works—
Steuben Division
Frederick Carder,
designer
$4.50. Steuben Glass,
Inc., 748 Fifth Avenue
Meerschaum pipe
Alfred Dunhill of London, Inc.
$25.00. Dunhill shops, tobacco shops and department stores

Bomb Rumidor
Distillers Products Corp.
$7.00. Department stores and tobacco shops
Tall wafer lighter and ball lighter

Alfred Dunhill of London, Inc.

Wafer lighter, $10.00; ball lighter, $15.00

Dunhill shops, tobacco shops and department stores

Imported chromium scent bottles

Lent by Saks-Fifth Avenue

$7.50 in black leather case
Electric clock
Herman Miller Clock Co.
Gilbert Rohde, designer
$16.50. Department stores and gift shops
272
Magnetcric clock
Jaeger Watch Co.
Jaeger Watch Co., designers, in collaboration with the Art and Color Section of the Fisher Body Corp. for General Motors

271
Westclox handbag watch, bakelite case
Western Clock Co.
De Vaulchier & Blow, designers
$2.95. Department stores, gift shops, drug stores
277
Wall bracket with cylindrical bowl
Kurt Versen
$17.00

276
Tubular wall bracket
Kurt Versen
$22.00
Desk lamp
Kurt Versen
Howe & Lescaze, designers
$31.00
Chair
Thonet Bros., Inc.
Le Corbusier, designer
$63.00

Beta chair
The Howell Co. (Brown & Nightingale, New York distributors)
Nathan George Horwitt, designer
$30.00. Department and furniture stores
Nest tables
Thonet Bros., Inc.
$28.50

Chair
Thonet Bros., Inc.
Marcel Breuer, designer
$20.50
5. Scientific Instruments

Illustrations
293
Inside micrometer
For taking internal measurements from 1 to 2 inches
Brown & Sharpe of New York, Inc.
$7.50. Hardware stores

289
Vernier depth gauge
For measuring depth with aid of vernier scale to 1/1000 inch
Brown & Sharpe of New York, Inc.
$16.25. Hardware stores

291
Graduated rod depth gauge for measuring depth of holes
Brown & Sharpe of New York, Inc.
$4.50. Hardware stores

307
Diemakers' square
For checking included angle of clearance in making dies
Brown & Sharpe of New York, Inc.
$5.50. Hardware stores

294
Outside firm joint caliper
For obtaining outside measurements (used in connection with scale)
Brown & Sharpe of New York, Inc.
60¢. Hardware stores
Bevel protractor
For obtaining angle of bevel in actual material
Brown & Sharpe of New York, Inc.
$10.50. Hardware stores

Plain English micrometer
For measuring thickness, etc. of steel to 1/1000 inch
Brown & Sharpe of New York, Inc.
$9.50. Hardware stores

Vest pocket speed indicator
To indicate speed of lathes, shafts of motors, etc.
Brown & Sharpe of New York, Inc.
$1.50. Hardware stores

Caliper square with adjusting screw
For obtaining inside and outside measurements to 1/64 and 1/100 inch
Brown & Sharpe of New York, Inc.
$10.20. Hardware stores

29 degrees worm thread tool gauge
For checking angles of helical threads
Brown & Sharpe of New York, Inc.
$7.50. Hardware stores
Pocket Polarimeter
For ascertaining the concentration of sugar solutions and solutions of optically active substances
Carl Zeiss, Inc.
$83.25

Sugar and oil refractometer
For measuring the refractive index and the dispersion of liquids as well as solids
Carl Zeiss, Inc.
$211.20
Telescope, 80 mm
Carl Zeiss, Inc.
$1,166.25
Diaphot
Exposure indicator for photographers
Carl Zeiss, Inc.
$2.20

Cube of didymium glass
For demonstrating with a spectroscope the sharp absorption bands characteristic of didymium salts
Carl Zeiss, Inc.
$5.00
Pocket sight compass
Eugene Dietzgen Co., Inc.
$8.35

Short & Mason miner's compass
To indicate direction of ore
Taylor Instrument Companies
$40.00. Department, optical and hardware stores
Protractor
Eugene Dietzgen Co., Inc.
$10.00

Protractor
Eugene Dietzgen Co., Inc.
$41.80
Brass plumb bob
Eugene Dietzgen Co., Inc.
$1.90

Adjustable curve number 2160
Eugene Dietzgen Co., Inc.
$2.25

Adjustable curve number 2161 A
Eugene Dietzgen Co., Inc.
$2.65
Juerst ebulliometer
For ascertaining the alcoholic content of beverages
Eimer & Amend
$75.00

Dietometer
For obtaining the weight of food in preparing diets
Eimer & Amend
$9.00
MacMichael viscosimeter
For ascertaining the viscosity of fluids
Eimer & Amend
$210.00
Torsion prescription scale number 285
The Torsion Balance Co.
$80.00
365

Anemometer
For measuring air speeds
Taylor Instrument Companies
$50.00. Department, optical and hardware stores

359

Dental instruments
The S. S. White Dental Mfg. Co.
X-ray unit, model "B", stationary type
Ritter Dental Mfg. Co., Inc.
$820.00
6. Laboratory Glass and Porcelain

Illustrations
381
Measuring flask
Eimer & Amend
$1.60
Boiling flasks
Corning Glass Works
57¢ to $3.30. Eimer & Amend
Stender dishes
Eimer & Amend
50¢ to $2.00

Hydrometer jars
Footed cylinders used to float hydrometer, an instrument which indicates the specific gravity of a solution
Eimer & Amend
40¢ to $2.75
Petri dishes
Used in growing cultures
Eimer & Amend
24¢ to 70¢

Crystallizing dishes
Used in obtaining crystals from saturated solutions by evaporation
Corning Glass Works
45¢ to 81.25. Eimer & Amend
372
Reagent bottles
Corning Glass Works
65¢ to $3.00. Eimer & Amend

393
Scorifiers
Used in assaying the metallic content of ores
Eimer & Amend
60¢
Retort
Used in distilling liquids
Corning Glass Works
$3.60, Eimer & Amend

Battery jars
Used in making storage batteries
Eimer & Amend
$4.70 to $13.25
Beakers

Used for dissolving, drying or boiling solutions

Coors Porcelain Co.

55¢ to $9.00.  Eimer & Amend
Capsules
Used for drying or incinerating chemicals
Coors Porcelain Co.
15¢ to 25¢. Eimer & Amend

Dish
Coors Porcelain Co.
$1.60. Eimer & Amend
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