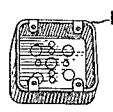
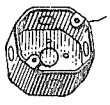
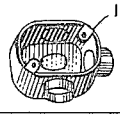
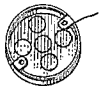
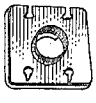
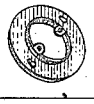
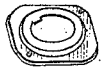
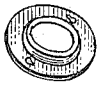
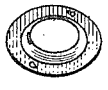
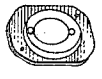
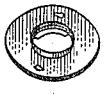
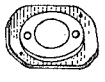
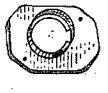
H. G. KNODERER.

CHART FOR SELECTING OUTLET BOXES AND COVERS.

APPLICATION FILED OCT. 18, 1920.

1,390,044. Patented Sept. 6, 1921.

Cat.No. 4-11/16 Square	Cat.No. 4" Octagon	Cat.No. 3¼" Octagon	Cat.No. Shallow Device Conduit Body
72151  10 1A	54151  10 3A	24151  10 4A	14241  10 5A
72C3  1C	56111  10 3B	24C28  4D	14C28  5D
72C39  1J	54C3  3C	24C44  4E	14C31  5E
4" Square			
51151  10 2A	54C28  3D	24C35  4F	14C35  5F
51C5  2C	54C44  3E	24C36  4G	14C36  5G
52C28  2D	54C35  3F	24C33  4I	14C32  5H
52C44  2E	54C36  3G	24C39  4J	14C34  5I
52C35  2F	54C49  3H		14C39  5J
52C36  2G	54C33  3I		
52C39  2J	54C39  3J		
52C13  2K			

Inventor:
Homer G. Knoderer,
by Albert G. Davis
His Attorney.

UNITED STATES PATENT OFFICE.

HOMER G. KNODERER, OF ENGLEWOOD, NEW JERSEY, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

CHART FOR SELECTING OUTLET-BOXES AND COVERS.

1,390,044. Specification of Letters Patent. Patented Sept. 6, 1921.

Application filed October 18, 1920. Serial No. 417,641.

To all whom it may concern:

Be it known that I, HOMER G. KNODERER, a citizen of the United States, residing at Englewood, in the county of Bergen, State of New Jersey, have invented certain new and useful Improvements in Charts for Selecting Outlet-Boxes and Covers, of which the following is a specification.

My invention relates to means for use in the selection of devices having different physical characteristics, which devices must be combined to form combinations to fulfil predetermined requirements and more particularly relates to charts for the selection of outlet boxes and covers to accommodate various types of wiring devices.

There are many sizes and shapes of outlet boxes and covers and many different types of wiring devices on the market, and an object of my invention is to provide means which shall enable a ready and certain selection to be made of the proper box and cover to accommodate a desired type of wiring device.

My invention will be better understood from the following description taken in connection with the accompanying drawing, and its scope will be pointed out in the appended claims.

The single figure of the drawing shows a chart having thereon illustrations of a plurality of articles and coöperating elements shown in perspective.

Referring to the drawing 1A, 2A, 3A, 4A, 5A and 3B represent conduit bodies or outlet boxes. As is well-known in the art these boxes are of various shapes and dimensions and they are customarily provided with removable closures which may be knocked out to enable a conduit or armored conductor connection to be made at any desired point in the bottom or side walls. As is also well known in the art these boxes are customarily provided with threaded lugs 10 to enable covers to be secured thereto. The physical characteristics of the cover vary with the type of wiring device which is to be mounted upon the cover, and the physical characteristics of the outlet box used for any particular wiring device are dependent upon certain characteristics of such device, and certain physical characteristics of the outlet box and covers to be used thereupon must correspond. In order to select the outlet box necessary to accommodate any particular wiring device, a suitable key may be prepared which may contain, for example, the catalogue number of the wiring device and various designations 1A, 2A, 3B, etc., to indicate the outlet boxes that may be used with such wiring device. Having determined the physical characteristics of the outlet box necessary to accommodate the desired wiring device, the particular type of box desired and the proper type of cover to fit the same may be at once selected from my chart. In this chart I have shown the covers which are adapted to be used interchangeably with each type of outlet box arranged in a column below the box, although my invention is not limited to any particular arrangement of the illustrations. The covers 1C and 1J are shown below the box 1A. The covers 2C, 2D, 2E, 2F, 2G, 2J and 2K are shown below the box 2A and the covers 3C to 3J inclusive are shown below the boxes 3A and 3B, while the groups of covers 4D to 4J inclusive and 5D to 5J inclusive are shown located respectively below the boxes 4A and 5A. The number comprised in the designation adjacent each box denotes the physical characteristics of the cover which must be used with the box and the number in the designation located adjacent each cover denotes the physical characteristics of the box which must be used with this cover. For example, a 1C cover will fit a 1A box; a 2C cover a 2A box; a 3C cover either a 3A or 3B box, etc. Independently of how the illustrations are arranged upon the chart, the user of the chart knows at once that a box having, for example, the character designation 5A may be used with any cover whose character designation contains the figure 5, and conversely. The letters C, D, E, etc., identify the physical characteristics of the cover with respect to the device to be mounted upon the cover. For example, the cover 2D represents a flat cover of the clover leaf type adapted to receive an electrical device, such, for example, as a snap switch having securing screws with spacings anywhere from $\frac{7}{8}''$ to $1\frac{1}{8}''$, while 2J represents a cover provided with a fluted catch adapted to receive for example the shell of a switch or lamp socket. It is obvious that the number of illustrations on the chart may be extended to include covers adapted to accommodate as many types of wiring devices as may be desired. I have

shown covers adapted to accommodate a number of different types of wiring devices merely to show how the chart may be used. In the particular chart illustrated, the covers 2C, and 3C represent canopy type covers with $2\frac{3}{4}''$ screw spacings. The covers 2E, 3E, 4E and 5E represent covers of the Federal type. Covers 2F, 3F, 4F and 5F represent covers of the screw ring receptacle type. Covers 2G, 3G, 4G and 5G represent covers of the 5-notch receptacle type. Covers 3H and 5H are of the Benjamin 2-screw receptacle type. Covers 3I, 4I and 5I are of the standard Ames 2-screw receptacle type. Cover 2K represents the deep flush receptacle type. The chart in actual practice will ordinarily be provided with legends specifying such details as screw spacings where such spacings are not obvious, to those skilled in the art, from the character of the illustrations.

It will be observed that the characters C, D, E, etc., which represent given characteristics of the cover, which define the characteristics of the device to be mounted thereon, are uniform throughout the chart. That is to say, any cover whose character designation contains the letter "D" is a clover leaf type cover and any cover whose character designation contains the letter "J" is a fluted catch cover.

In addition to the character designations heretofore referred to, a catalogue number will be placed opposite each box and cover to assist in locating the same in stock and to enable the particular device desired to be ordered from the manufacturer. Outlet box and cover manufacturers have recently agreed upon a uniform method of selecting catalogue numbers and this fact makes it possible greatly to extend the utility of my chart. For example, the box which I have designated as 1A is given the catalogue number 72151, which number defines the physical structure and dimensions of the box. In like manner, the catalogue number 51C5 designates the physical characteristics and dimensions of the cover 2C. It will be noted that the letter "C" always designates a cover in the catalogue numbering. With this uniform system of catalogue numbering, the user of the chart, after having determined by means of the chart the particular articles needed, may order these articles by catalogue number from any manufacturer.

While I have described my invention particularly in connection with outlet boxes and covers therefor, it is apparent that in its broad aspects the invention is not limited to this particular field of utility. It is also apparent that changes may be made in the arrangement of the illustrations and selection of the character designations without departing from the spirit of my invention and I aim therefore to cover all such variations and modifications as fall within the scope of my invention which is defined in the appended claims.

What I claim as new and desire to secure by Letters Patent of the United States, is:—

1. In a chart of the class described, the combination of a plurality of representations of articles having different physical characteristics and a plurality of representations of elements arranged to coöperate with said articles also having different physical characteristics, certain of the physical characteristics of said elements being designed to adapt them for use interchangeably with certain only of said articles, each of said article representations having a character adjacent thereto identifying certain characteristics of the article necessary to coöperate therewith and each of said article representations having a character adjacent thereto identical with the element designation identifying the article characteristics.

2. In a chart of the class described, the combination of a plurality of representations of outlet boxes having different physical characteristics and a plurality of representations of covers for said boxes also having different physical characteristics, certain of the physical characteristics of said covers being designed to adapt them for use interchangeably with certain only of said boxes, each of said box representations having a character adjacent thereto identifying certain characteristics of the cover necessary to coöperate therewith, each of said cover representations having a character adjacent thereto identical with the box designation identifying the cover characteristics and a character adjacent thereto identifying certain characteristics of the cover with respect to the devices to be mounted upon the cover, characters representing given characteristics of said devices to be mounted being identical throughout the cover representations.

3. In a chart of the class described, the combination of a plurality of representations of outlet boxes having different physical characteristics and a plurality of representations of covers for said boxes also having different physical characteristics, certain of the physical characteristics of said covers being designed to adapt them for use interchangeably with certain only of said boxes, each of said representations having a catalogue designation adjacent thereto identifying its physical structure and dimensions, each of said box representations having a character adjacent thereto identifying certain of its physical characteristics and a character adjacent thereto identifying certain characteristics of the cover necessary to coöperate therewith, each of said cover rep-

resentations having a character adjacent thereto identical with the box designation identifying the cover characteristics and a character adjacent thereto identifying certain characteristics of the cover with respect to the devices to be mounted upon the cover, characters representing given characteristics of said devices to be mounted being identical throughout the cover representations.

In witness whereof, I have hereunto set my hand this 15 day of Oct. 1920.

HOMER G. KNODERER.