I. L. BURROWS.

DRILL CASE.

APPLICATION FILED JUNE 10, 1910.

992,336. **Patented May 16, 1911.**

Fig. 5.

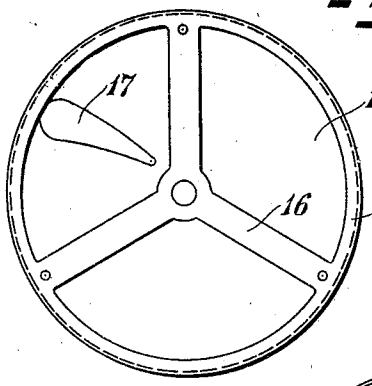
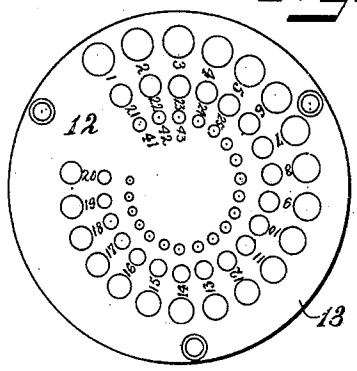


Fig. 6.



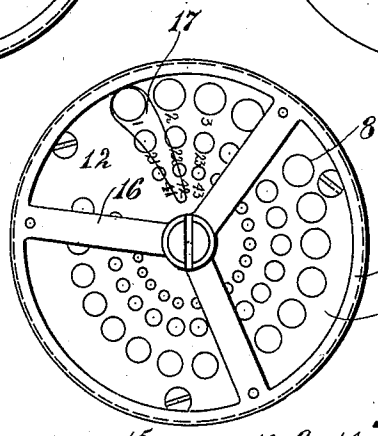


Fig. 2.

Fig. 1.

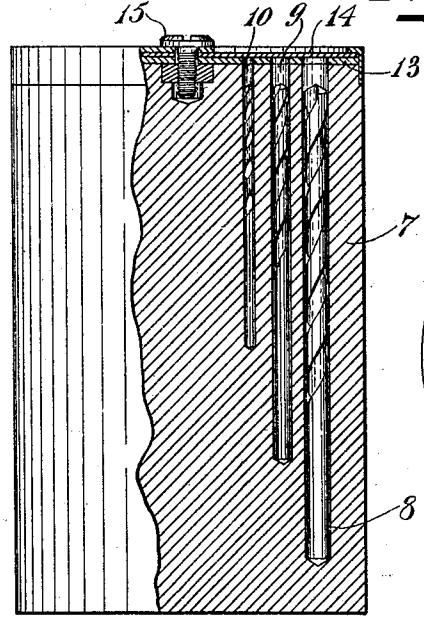


Fig. 3.

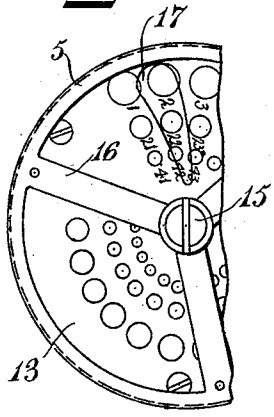
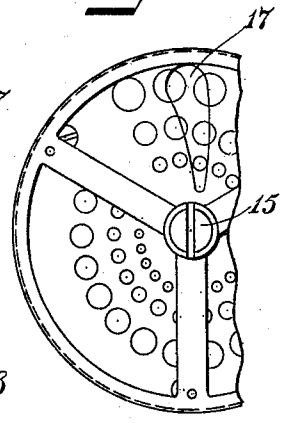


Fig. 4.



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UNITED STATES PATENT OFFICE.

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DRILL-CASE.

992,336. Specification of Letters Patent. **Patented May 16, 1911.**

Application filed June 10, 1910. Serial No. 566,185.

To all whom it may concern:

Be it known that I, IRVING L. BURROWS, a citizen of the United States, residing in Clifton Park, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Drill-Cases, of which the following is a specification.

This invention has for its object to provide an improved form of receptacle or case for containing slender cylindrical articles such as twist drills or the like, wherein the articles will be each carried in its proper compartment or bore; and to withdraw the proper one it is only necessary to shift a top or cover member to cause a certain indication to register, and then invert the case, when the desired drill will drop out by gravity, while all of the others are prevented from falling out.

In the accompanying drawings showing an embodiment of my invention, Figure 1 is a view in elevation, partly in longitudinal section, of the device. Fig. 2 represents a plan view. Figs. 3 and 4 are similar views in different positions of the cover. Fig. 5 shows the cover member; and Fig. 6 shows the top plate of the body member.

The invention is shown as comprising a body member 7 that may be made of any desired material, preferably of wood, and is shown as cylindrical. It is provided with a series of bores 8, 9, 10, etc., that are graded in their diameters, in order to accommodate cylindrical articles of graded sizes, such as twist drills. These bores are arranged substantially in a circle, or several circles. Preferably this arrangement is in the form of a spiral or evolute, except that at one radial portion 12 no bores are provided. It is shown in the form of an evolute with the largest diameter of bores at the outer end of the curve, the bores decreasing in diameter to a minimum at the inner end of the curve. As shown in Fig. 1 these bores are also preferably graded in length from the longest bore for the largest diameter to the shortest length for the shortest bore. Preferably a top member or disk 13 for the body is provided containing holes corresponding to and registering with the bores; and this disk may contain indications such as numbers 1, 2, 3, etc. adjacent each of the bores, to indicate the sizes of the drills contained therein.

A cover member is provided for the body, shown in the form of a disk 14 that is preferably transparent, and may be made of celluloid or glass. This disk is mounted to rotate on a screw 15 suitably secured in the body member. If desired the disk 14 may be provided with a circular frame 5 having radial arms 16 to give it strength. The disk 14 is provided with an opening 17 that is shown in the form of a radial slot decreasing in size or tapered from its outer end inwardly. This slot is preferably given a slight curve. The shape of this slot, and the distances the several bores are spaced apart are so arranged that upon swinging the disk all of the bores in sequence will be brought to register with some portion of the slot, but it never entirely uncovers more than one of the bores at one time.

In the use of the device, the bores are filled with drills or other articles. When any size of drill is to be used, the number corresponding with the drill is sought by the indication adjacent the bore, and then the cover is turned until the slot accurately registers with this bore. Thereupon the device is inverted, and the required drill will fall out through the portion of the slot, into the hand of the user. Yet no other drill can be withdrawn or will fall out, because none of the other openings in this position of the cover, will be entirely uncovered or register with the slot. In this manner any drill or number of drills can be withdrawn when desired. And to return the drills it is only necessary to turn the cover until the slot registers with the proper bore, when the drill may be dropped into its proper place.

Having thus described my invention, I claim:

The combination of a body member having a series of parallel bores extending from

one end and arranged in a substantially spiral manner, and a cover centrally pivoted on the said end of the body to normally close said bores, the cover being provided with a radially extending tapering slot that upon swinging the cover will register successively with all of the said bores, and will completely expose but one of the bores in any of its positions.

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