No. 648,589.

Patented May 1, 1900.

H. D. LANFAIR.

HOLDER FOR DRILLS.

(Application filed June 29, 1899.)

(No Model.)

Fig. 1.

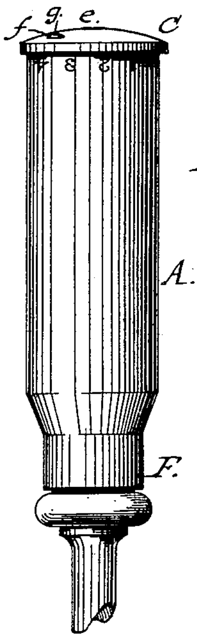


Fig. 2.

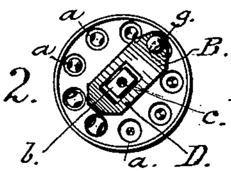


Fig. 4.

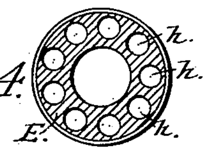


Fig. 3.

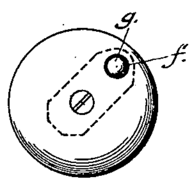
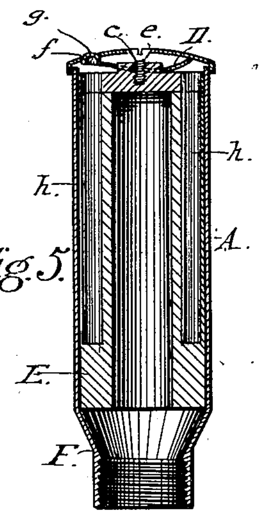


Fig. 5.



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UNITED STATES PATENT OFFICE.

HERBERT D. LANFAIR, OF GREENFIELD, MASSACHUSETTS, ASSIGNOR TO THE GOODELL-PRATT COMPANY, OF SAME PLACE.

HOLDER FOR DRILLS.

SPECIFICATION forming part of Letters Patent No. 648,589, dated May 1, 1900.

Application filed June 29, 1899. Serial No. 722,349. (No model.)

To all whom it may concern:

Be it known that I, HERBERT D. LANFAIR, a citizen of the United States, residing at Greenfield, in the county of Franklin and State of Massachusetts, have invented certain new and useful Improvements in Holders for Drills and other Like Articles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention is an improvement in holders for drills and other like articles, so arranged that when it is desirable to take out a single one of said articles of a given number or size it will only be necessary to press upon a knob which protrudes through a hole in the cap of the holder and revolve said cap until said hole comes opposite the proper cell in which the one bit is held. Then by inverting the holder the bit will drop out.

The invention consists of a cylinder or jacket which is preferably reduced at one end, where interior screw-threads are provided to engage the screw-threaded end of a part of a boring-tool like that shown and described in a patent formerly taken out by me, numbered 544,411. At the opposite end of the said cylinder is a metallic disk perforated with a series of holes fitted within the cylindrical jacket and provided on its face with an angular projection pierced centrally and axially as to said jacket with a screw-threaded hole. A spring-plate having a rectangular elongated opening and a knob is adapted to fit over said angular projection. A cap or cover provided for the cylindrical jacket is cup-shaped and has formed through it two holes, one central as to the cylinder and the other near the edge of the same. The said cap or cover is held to the perforated disk by a screw which takes into the screw-threaded hole of the disk before mentioned. Within the cylindrical jacket of the holder, adjacent to the perforated disk, is a series of cells, formed in a core of wood or other suitable material, corresponding in number with the perforations in the disk described. This core of wood extends within the jacket to the reduced portion of the said jacket.

In the drawings illustrating my invention, Figure 1 is an elevation of the holder, showing parts visible in such a view and the shank of a tool to which it might be attached. Fig. 2 is a plan view of the top of the cylindrical jacket with its cover removed and the spring-plate referred to. Fig. 3 shows a plan view of the top with the cover in place. Fig. 4 is a transverse sectional view through the jacket and cell. Fig. 5 is a longitudinal sectional view of the holder.

Referring to the drawings, A is the cylindrical jacket.

B is the disk, with its concentric perforations *a a a* and the angular projection *b* and screw-threaded hole *c*.

C is the cap or cover, having a central hole *e* and the hole *f*.

D is the spring-plate, with the knob *g* integral therewith.

h h h are the cells coincident with the perforations *a a a* of the disk B.

E is the core in which the cells *h h h* are formed, and F is the reduced portion of the cylindrical jacket A, screw-threaded within and adapted to take onto a corresponding screw-threaded portion of the tool to which the drill-holder is to be attached. When the spring-plate is in place and the cap is secured to the cylindrical jacket, normally the knob of the plate projects through the hole *f*. Pressure being applied to the knob depresses the spring and allows the cap to be revolved to bring the said hole *f* into coincidence with any one of the perforations *a* in order that the drills in said cells may be dropped out one at a time. Obviously when the knob of the spring-plate is out all of the cells are covered and held in place, no matter how the holder is held.

While the prime object of this holder for drills is for use in connection with a drilling-tool, it is obviously applicable as a holder for needles or anything of spindle form.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The drill-holder provided with cells and the perforated disk, provided with an angular projection a part of said disk, in combination with the spring-plate provided with a knob and the revoluble cover having an open-

ing, as described, pivoted to said perforated plate, as and for the purpose specified.

2. A drill-holding receptacle, having concentric cells, and provided with a revolving cover having an opening to register with said cells, and a perforated disk or plate adjacent to the core containing cells, in combination with a spring-plate held on said disk and provided with a knob adapted to take into the hole of the revoluble cover, as set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

HERBERT D. LANFAIR.

Witnesses:

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