No. 666,510. Patented Jan. 22, 1901.

Z. T. FURBISH.

MAGAZINE SCREW DRIVER AND TOOL HOLDER.

(Application filed Apr. 6, 1900.

(No Model.)

Fig. 1.

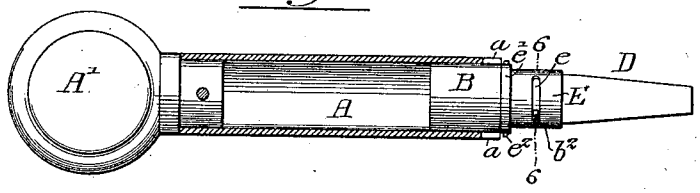


Fig. 2.

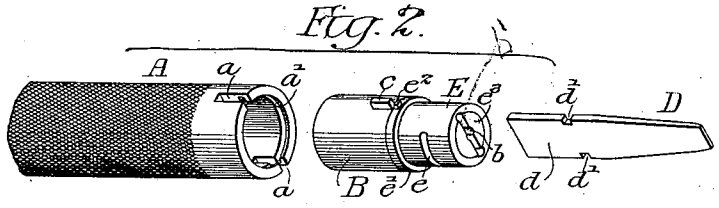


Fig. 3.

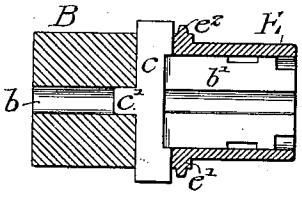


Fig. 4.

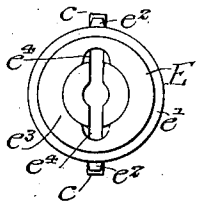


Fig. 5.

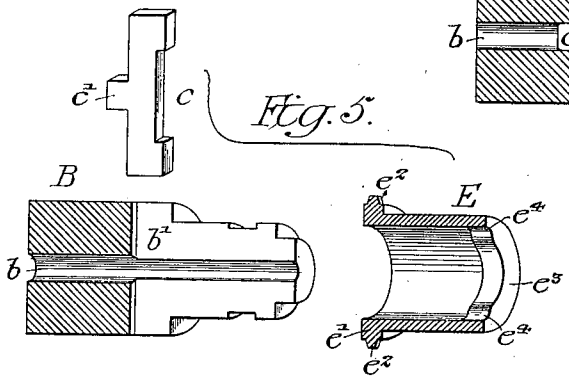


Fig. 6.

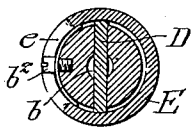
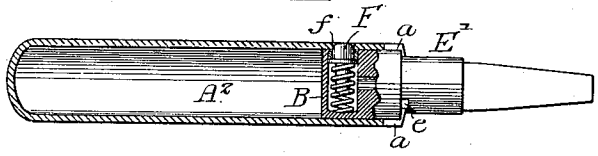


Fig. 7.



Witnesses:-
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Louis A. F. Coblentz

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Zachry T. Furbish
by his Attorneys:
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ZACHRY T. FURBISH, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE NORTH BROTHERS MANUFACTURING COMPANY, OF SAME PLACE.

MAGAZINE SCREW-DRIVER AND TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 666,510, dated January 22, 1901.

Application filed April 6, 1900. Serial No. 11,880. (No model.)

To all whom it may concern:

Be it known that I, ZACHRY T. FURBISH, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Magazine Screw-Drivers and Tool-Holders, of which the following is a specification.

The object of my invention is to construct a cheap and substantial magazine screw-driver or tool-holder. This object I attain in the following manner, reference being had to the accompanying drawings, in which—

Figure 1 is a side view with the magazine in section. Fig. 2 is a detached perspective view of the parts. Fig. 3 is an enlarged sectional view of the attaching-plug. Fig. 4 is an end view of Fig. 3. Fig. 5 is a sectional perspective view of the parts of the plug detached. Fig. 6 is an enlarged section on the line 6 6, Fig. 1; and Fig. 7 is a view of a modification.

A is the magazine, consisting of a cylindrical shell and a handle A′, of wood or other material, as shown in Fig. 1, or the magazine may be made in one piece of metal, as shown in the modification, Fig. 7. In the end of this shell are two slots *a a*, and adjacent to the end of the shell is an internal groove *a′* (clearly shown in Fig. 2) for the reception of the lock to hold the plug B to the shell. This plug B is shaped as clearly shown in Figs. 3, 4, and 5 and has a central opening *b* and a slot *b′*. A key *c* rests in the slot *b′* and has a central projection which enters the opening *b*. Thus the key is held in position, the key extending at each side beyond the plug and entering the slots *a a* in the shell A when in position. The slot *b′* in the plug is of sufficient width to receive the tang portion *d* of the screw-driver blade D. This blade is notched at *d′* on each side, as shown in Fig. 2.

Mounted on the plug is a movable sleeve E, having a slot *e*, into which extends a pin b^2, screwed into the plug B. This pin retains the sleeve in longitudinal position and allows it a limited rotary motion on the plug.

On the inner end of the sleeve E is a flange *e′* of the same diameter as the large portion of the plug B, and on this flange are lugs e^2, which are adapted to the groove *a′* in the casing A.

When the plug is placed in position within the casing, the sleeve E can be turned so that its lugs e^2 will enter the groove *a′* in the casing, and thus lock the plug against longitudinal movement, the key *c* locking it against lateral motion.

The sleeve E has a flange e^3 at its outer end, and this flange is of such a width as to enter the notches *d′* in the blade D. The flange, however, is cut away at diametrically opposite points e^4, so that the tang *d* of the blade can enter the slot *b′* in the plug, and when the blade is in position, as shown in Fig. 3, the turning of the sleeve E will cause the flanges e^3 to enter the slot *d′* in the blade and lock the blade securely in position.

It will be seen by referring to the drawings that the one movement of the sleeve E not only locks the blade to the plug, but also locks the plug to the casing.

When it is desired to detach the blade, it is always desirable to detach the plug, so that the blade can be placed in the magazine or casing A and the plug reinserted in the case to hold the blades in position, so that several blades of different sizes can be held in the magazine and in a very small compass.

When it is wished to use a certain blade, it is selected and placed in position on the plug and the plug coupled to the casing.

In Fig. 7 I have shown a modification of the device where a separate spring-bolt F is mounted in the plug B, and this bolt projects into an opening *f* in the casing A^2. This casing has the slots *a*, similar to the casing A; but the groove *a′* is dispensed with. The locking-sleeve E′ has a flange e^3, similar to the sleeve E; but the slot *e* is at the end of the sleeve, and the movement of the sleeve is limited by the key *c*.

While I have shown a screw-driver blade in the drawings, it will be understood that drill-bits, countersink-bits, or other-shaped tools may be used in connection with my tool-holder; but it is intended mainly as a magazine screw-driver.

I claim as my invention—

1. The combination of a casing, a plug arranged to fit the casing and to receive a tool, and means integral with the plug for simultaneously locking the plug to the casing and the tool to the plug, substantially as described.

2. The combination in a magazine screw-

driver, of a casing, a plug fitting therein, a key locking the plug to the casing, a sleeve rotatably mounted on the plug, a tool and means on the sleeve for retaining said sleeve in the casing, and for locking the tool in the plug, substantially as described.

3. The combination of a casing having slots at one end, an internal annular groove near the slotted end of the casing, a plug adapted to the casing and having projections entering the slots in the casing, a sleeve on the plug, and a lug on the sleeve arranged to enter the annular groove in the casing, substantially as described.

4. The combination of a casing, longitudinal slots in the end of the casing, an annular internal groove at the slotted end of the casing, a plug fitting the casing, said plug being slotted to receive the screw-driver blade or tool, a key in the end of the slot of the plug and extending beyond the sides of the plug and into the slots in the casing, a sleeve on the plug having a flange at its forward end engaging the screw-driver blade or tool, and a lug on its rear end entering the annular groove in the casing, substantially as described.

5. The combination in a tool-holder, of a casing, a plug constructed to enter the same, means for locking the plug to the casing, a sleeve on the plug, a slot in said sleeve and a pin on the plug constructed to enter the slot, a tool and means on the sleeve for simultaneously locking the plug in the casing and the tool in the plug, substantially as described.

6. The combination in a tool-holder, of a casing, a removable plug held rigidly in said casing, a sleeve mounted on the plug and having limited rotary motion thereon, tools for the holder, and projections on the sleeve fitting into recesses in the casing and in the tool for locking the plug in the casing and the tool in the plug.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ZACHRY T. FURBISH.

Witnesses:
WILL. A. BARR,
JOS. H. KLEIN.