

P. ANDERHOLM.
 TOOL HOLDER.
 APPLICATION FILED MAR. 22, 1912.

1,056,484.

Patented Mar. 18, 1913.

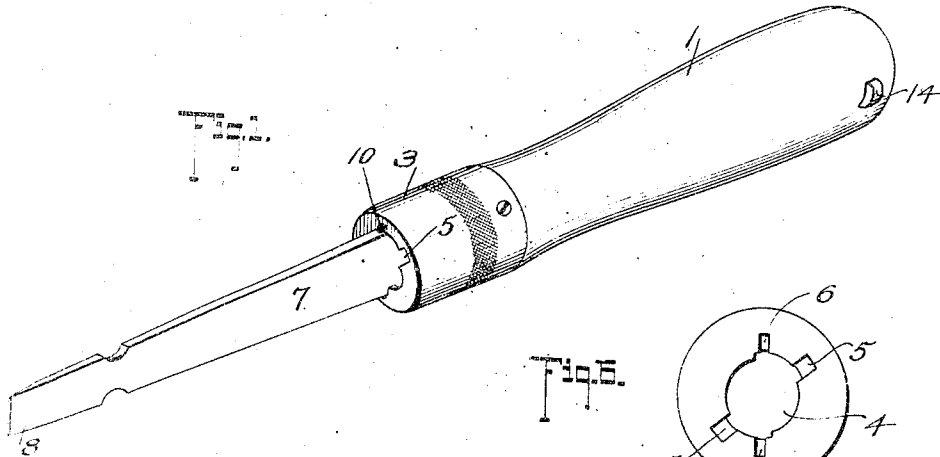


Fig. 1.

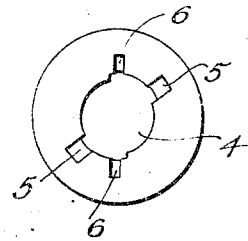


Fig. 2.

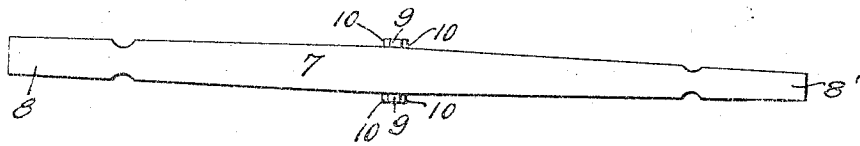


Fig. 3.

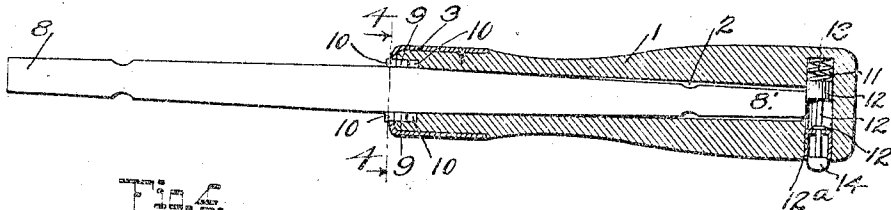


Fig. 4.

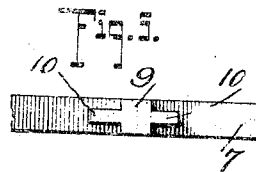
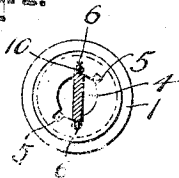


Fig. 5.

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TOOL-HOLDER.

1,056,484.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, PETER ANDERHOLM, a citizen of the United States, residing at Hibbing, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Tool-Holders, of which the following is a specification.

This invention relates to improvements in tool holders and particularly to that class embodying means whereby different sized or characters of tool elements may be removably locked in position for use.

Specifically, the object of my invention is to provide an efficient holder in which is adapted to be received a shank comprising tool elements, which may be readily reversed, according to the one desired, and locked in position by partial rotation of said shank, the handle being also provided with means which, when actuated, will permit the shank to be engaged with the handle and held in locked position.

For a full understanding of the present invention, reference is to be had to the following description, and to the accompanying drawings, in which—Figure 1 is a perspective view of my invention, showing a screw driver locked in position for use. Fig. 2 is a plan view of the shank alone. Fig. 3 is a longitudinal sectional view of the holder showing the shank in locked position. Fig. 4 is a view taken about on the line 4—4 of Fig. 3, the shank being shown in section. Fig. 5 is an enlarged detail view showing the locking projections formed on the shank. Fig. 6 is an enlarged view of the end of the ferrule, showing more clearly the notches in the edge portion of the opening therein.

Throughout the following detailed description and on the several figures of the drawings, similar parts are referred to by like reference characters.

Referring now to the drawing and specifically describing the invention, a holder constructed in accordance therewith comprises a handle 1 having a hollow portion 2 extending therefrom the body thereof. Embracing the handle 1, which is preferably made of wood, is a metallic ferrule 3 having an opening 4 in the end thereof, the edge portions of said opening being formed with diametrically opposite pairs of notches or recesses 5 and 6, said notches being of different sizes.

7 denotes a shank embodying the tool elements 8 and 8', shown in this instance as different sized screw drivers. The edges of the shank are formed with laterally projecting lugs 9, said lugs being preferably made of equal width to the shank 7, as clearly shown in Fig. 5 of the drawing. Extending longitudinally with respect to the shank from opposite sides of the lug 9 are formed locking projections 10, the size or width of said projections being substantially the same as the size of the notches 6 in the edge of the opening of the ferrule 3, while the notches 5 therein are similar in size to the width of the lugs 9 on said shank.

In the enlarged end portion of the handle 1 is a transverse recess 11 adjacent to the end of the hollow portion 2 of the handle, in which is located a spring actuated locking member 12, having at one end thereof an enlarged head 12' normally seating against the outer end of the spiral spring 13 located in the inner portion of the recess 11. The outer end of the locking member 12 is formed with a button 14 projecting slightly from the handle 1. The outward movement of the locking member 12 is limited by means of a projection 12'' which is adapted to abut against a sleeve 12^a received in the end of the recess 11.

In the use of my invention, it is contemplated that one end of the shank 7, which end constitutes a tool element, is adapted to be inserted in the hollow portion 2 of the handle 1. The enlarged head 12' of the locking member 12 normally lies opposite said hollow portion and in order to lock the shank 7 in position, it is necessary to press inwardly on the button 14, then move the lug 9 through the larger notch 5 in the ferrule 3 until the locking projection 9 passes the edge of the opening 4. By a slight rotation of the shank 7, the locking projection 10 will be brought opposite the smaller notch 6 and may be drawn outwardly there-through until the shoulder of the lug 9 impinges against the inner side of the end of the ferrule 3. By releasing pressure on the button 14, the notched head 12' of the locking member 12 will engage with the inner tool element of the shank and the latter is thus locked in position for use.

To permit withdrawal of the shank 7 from the handle 1, the operation above described is reversed, according to the char-

acter of tool element which it is desired to use.

While I have illustrated in the drawings different sized screw drivers, it will be understood that the tool elements may be of different characters and other minor changes may be made in the construction and material of which the holder is composed, without departing from the spirit of my invention, and within the scope of the claims hereto appended.

Having thus described the invention, what I claim as new is:

1. In a tool holder, the combination of a handle having a hollow body portion, a shank adapted to be received in said hollow portion, locking means formed on said shank, the opening of the hollow portion having its edges so formed as to permit of the insertion of the shank when in a predetermined position, and a locking member mounted in the handle and normally preventing said insertion of the shank and operable to release the latter whereby said shank may be lockingly engaged with the edge of the hollow portion when turned into another predetermined position from that aforesaid.

2. In a tool holder, the combination of a handle having a hollow body portion, a shank adapted to be received in said hollow portion, locking means formed on the shank, the opening of the hollow portion having its edge portion so formed as to permit of the insertion of the shank only when in a predetermined position, and a locking member mounted in the handle and arranged transversely of the opening in the body, said member normally preventing such insertion of the shank and operable to release the same whereby it may lockingly engage with the edge of the hollow portion when partially rotated into another predetermined position from that aforesaid, said locking member then being adapted to

hold the shank in the last mentioned position.

3. In a tool holder, the combination of a handle having a hollow body portion, the edge of the opening of said hollow portion having different sized notches formed therein, a reversible shank having tool elements at its opposite ends and having lugs formed in its edges for engagement in the notches aforesaid, and a spring actuated locking member mounted in said handle normally preventing longitudinal movement of the shank and adapted to permit engagement of the lugs aforesaid in the notches upon actuation of said locking member, said locking member engaging with the tool element received in the handle to hold the shank in locked position.

4. In a tool holder, the combination of a handle having a hollow body portion, the edges of the opening of the hollow portion having different sized recesses formed therein, a reversible shank having tool elements at its opposite ends and having lugs formed on its edges adapted to be received in the larger of said recesses, a spring actuated locking member mounted in the handle adjacent to the hollow portion and adapted to normally prevent longitudinal movement of the tool element received in the hollow portion of the body, and locking projections formed on the lugs aforesaid and adapted to engage in the smaller recesses upon actuation of the spring actuated locking member and partial rotation of the shank, said actuated locking member being adapted to hold the shank in locked position when released.

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

PETER ANDERHOLM.

Witnesses:

ANDREW STERNER,
YENNIE LEKVE.