July 29, 1952 J. W. RAMEY 2,604,738

TOOLHOLDER

Filed July 28, 1950

Fig. 1

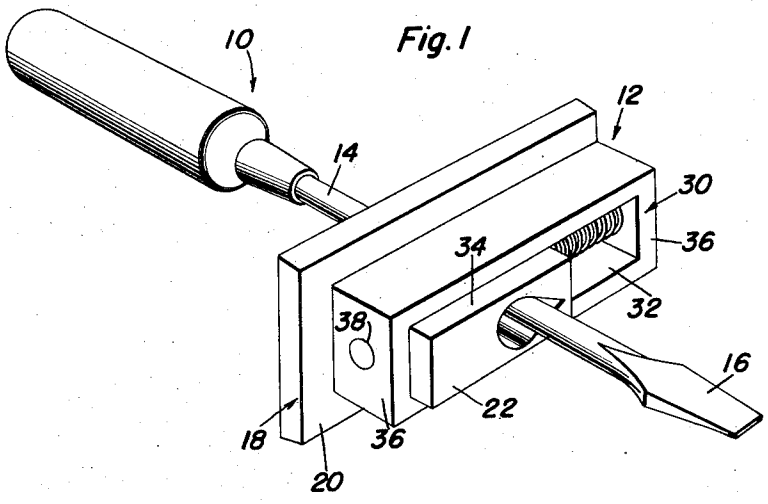


Fig. 2

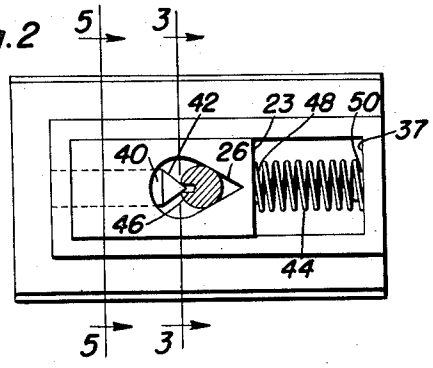


Fig. 3

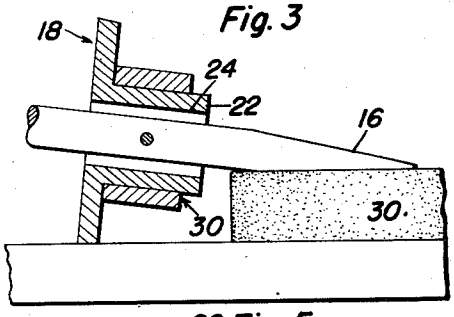


Fig. 4

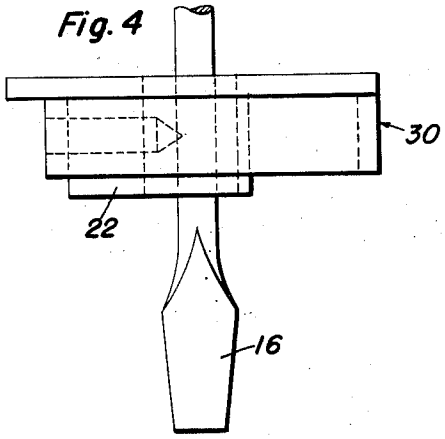
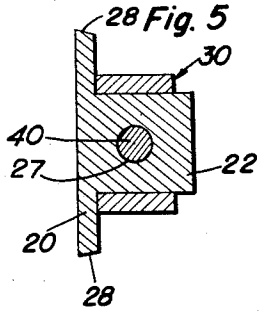


Fig. 5



John W. Ramey

INVENTOR.

BY Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

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TOOLHOLDER

John W. Ramey, Lexington, Ky.

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1 Claim. (Cl. 51—221)

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The present invention relates to improvements in tool holders and more particularly to the type of tool holder which is adapted to hold screwdrivers and the like for grinding and similar operations.

An object of the present invention is to provide an improved structure for holding screwdrivers and the like whereby the screwdriver may be held in predetermined relation with the grinding surface to provide even grinding thereof.

A further object of the present invention is to provide a tool holder which resiliently grips the shank of the tool and is readily manipulated for the removal of the tool as desired.

Still another object of the present invention is to provide an improved tool holder whereby the tool may first be ground on one surface and then rotated through 180° for grinding of the other surface, the tool holder being effective to hold the tool in predetermined relation with a grinding stone regardless of which face is being ground.

A further object of the present invention is to provide a resilient finger actuated gripping means for the tool shank.

This invention also has for its objects to provide such means that are convenient in use, economical of manufacture and of relative simplicity.

The best form in which I have contemplated applying my invention is illustrated in the accompanying drawings, wherein:

Figure 1 is a perspective view of the tool holder of the present invention showing a screwdriver mounted therein;

Figure 2 is a side elevational view of the present invention;

Figure 3 is a vertical transverse sectional view taken substantially on the plane of line 3—3 of Figure 2;

Figure 4 is a vertical plan view showing a screwdriver mounted within the holder; and

Figure 5 is a vertical transverse sectional view taken substantially on the plane of line 5—5 of Figure 2.

Referring more particularly to the drawings, wherein like numerals designate like parts throughout, the numeral 10 designates generally a tool with which the tool holder, designated generally at 12, is employed. As here shown, the tool 10 is a conventional screwdriver having a shank portion 14 and surfaces to be ground 16.

The tool holder 12 is comprised of a supporting housing means 18 which includes an elongated flat flange portion 20 and a reduced block portion 22 integral therewith and extending therefrom.

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Portion 22 is of substantially rectangular cross-section and the entire supporting housing means 18 is provided with a bore 24 extending therethrough. The bore 24 is substantially oblong-lanceolate, being provided with a V-groove 26 at one side against which the shank of the screwdriver may abut. The flat elongated portion 20 is provided with bevelled surfaces 28 along its length whereby the positioning of the screwdriver with respect to the grinding stone 30 may be effectively maintained, as seen best in Figure 3.

A finger-operated means 30 is slidably positioned on the reduced portion 22 and is formed from a substantially rectangular, hollow and open-sided metallic frame member. The finger-operated member 30 is formed from substantially elongated side walls 32 and end walls 36, with the side walls 32 adapted to slidingly engage the side surfaces 34 of the reduced portion 22. The interior of the hollow finger-operated member 30 is of greater length than the reduced portion 22 whereby reciprocation of the finger-operated member 30 is made possible.

One of the end walls 36 of the finger-operated member 30 at the reduced portion 22 is provided with an opening 38 in which is fixed a finger element or pin 40 having a pointed end 42. The finger 40 is securely positioned within the finger-operated member 30 and is slidingly engaged in a bore 27 in the reduced portion 22, said bore 27 communicating with the tool opening 24. A spring 44 is positioned between the finger-operated member 30 and the reduced portion 22, as shown in Figure 2, whereby the finger-operated member 30 is adapted to be normally positioned with the pointed end 42 of the finger 40 engaged in a recess 46 in the shank of the screwdriver 10.

The surface 23 of the reduced portion 22 and the surface 37 of the end wall 36 of the finger-operated member 30 are each provided with projections 48 and 50 extending therefrom whereby positioning of the spring 44 is maintained.

From the foregoing description taken in conjunction with the drawings, it is believed that the use of the present invention will be obvious and that various other uses will be apparent to one skilled in the art and, accordingly, further detailed description at this point is deemed unnecessary. Suffice it to say, reciprocation of the finger-actuated member 30 with respect to the flat elongated portion 22 resiliently engages and disengages the point 42 from the recess 46 of the shank 14 of the screwdriver, whereby the screwdriver may selectively be positioned in the tool holder or removed therefrom. The bevel of

the surface 28 may be of predetermined amounts whereby the angle of grinding of the surface 16 of the screwdriver may be controlled.

Having described the invention, what is claimed as new is:

A tool holder comprising an elongated rectangular block having a transverse, substantially oblong-lanceolate opening therein for the reception of a tool and further having a longitudinal bore communicating with the opening, bevelled supporting flanges on one of the longitudinal marginal portions of the block, a substantially rectangular elongated hollow frame slidable longitudinally on the block, a pin secured to one end of the frame and slidable in the bore and engageable with the tool for securing said tool in the opening, and a coil spring between the block and the other end of the frame for actuating said frame for engaging the pin with the tool.

JOHN W. RAMEY.

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