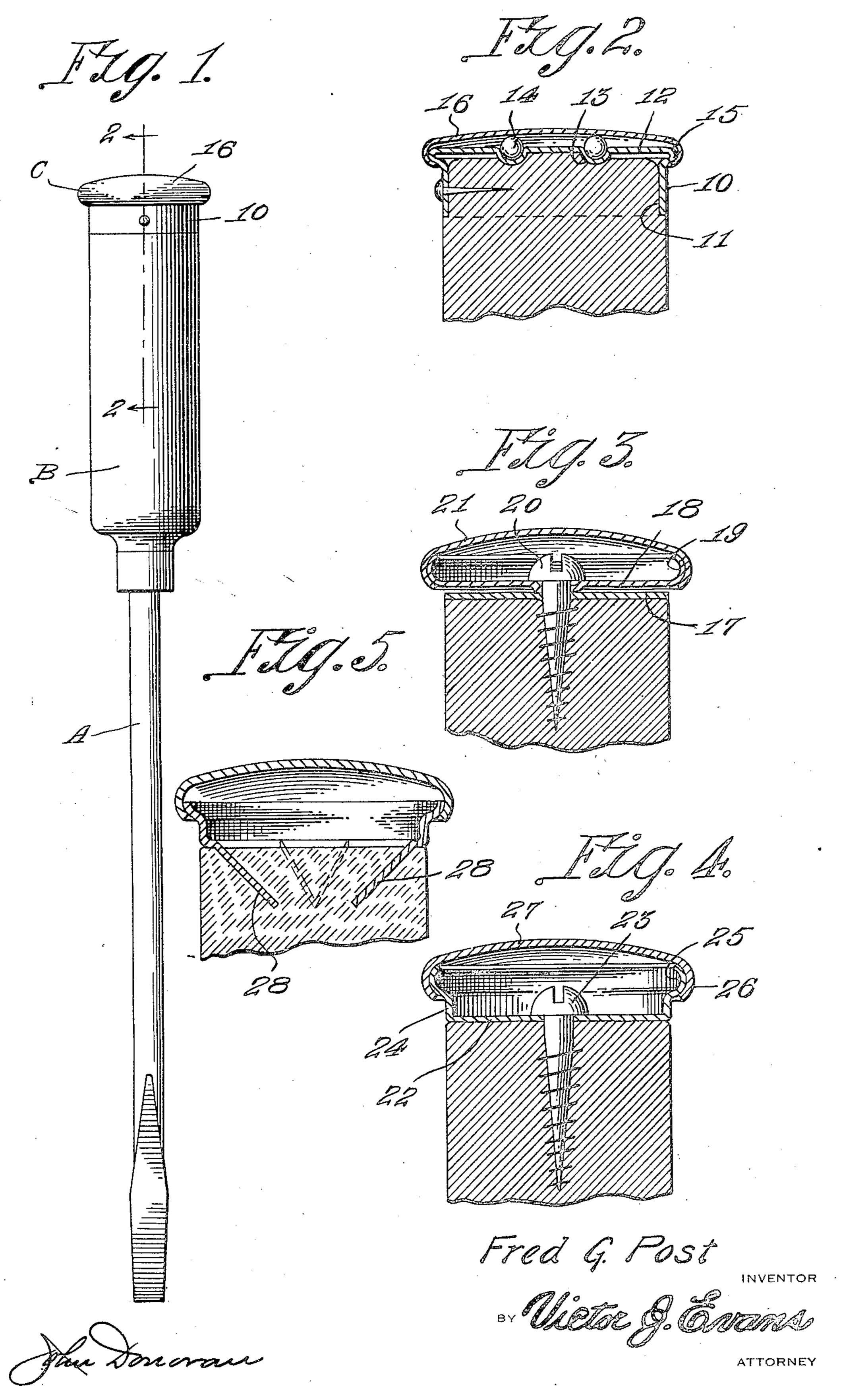
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REVOLVING GRIP SCREW DRIVER AND THE LIKE

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This invention relates to tools, particu- ever as to the exact type of tool to which larly the handle structures therefor, and has the invention is to be applied. In this in-5 the like, so constructed and arranged that the handle, generally, and C represents the necessary and understood.

dle may be formed.

Another object of the invention is to promember will prevent chafing of the palm of the user's hand, as the hand is turned back after each partial rotation of the tool. The numeral 16 designates the cap or but-

An additional object is to provide a de-30 vice of this character which will be simple and inexpensive to manufacture, easy to apply, positive in action, efficient and durable in service, and a general improvement in the

art. With the above and other objects and advantages in view, the invention consists in the details of construction, and the arrangement and combination of parts to be hereinafter more fully described and claimed, and 40 illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of a screw cordance with the invention.

on the line 2-2 of Figure 1.

but illustrating a modification, and

to Figures 2 and 3 but disclosing still other with the disk 18. modifications.

tration, there being no limitation whatso- with a cylindrical portion 24 which projects

for its object the provision of a novel handle stance, the letter A designates the shank of structure for a screw driver, gimlet, drill or the screw driver or other tool, B designates & it will require only one hand of the user to invention. In carrying out the form of the effect the proper turning movement, the in- invention, disclosed in Figures 1 and 2, I vention contemplating the provision of a provide a metallic ferrule 10 of cylindrical knob or button or relatively flat form ro- form, which is telescopically engaged upon 65 tatably mounted upon the end of the handle the end of the handle B, it being preferable in position to engage within the palm of the that the extreme end portion of the handle user's hand so that the tool equipped with be somewhat reduced at 11 so that the outer the handle may be turned step by step as is surface of the ferrule 10 will be flush with the periphery of the handle. However, this 70 An important object of the invention is to is a detail which may be varied within limit. provide a handle of this character having At spaced points, the end portion 12 of the various ways in which the swiveled end ferrule extends over the end of the handle, member or button-like element may be and is provided with inwardly pressed mounted to facilitate its rotation, the various curved portions 13 for the accomodation of 75 20 modifications in this respect taking care of bearing balls 14 which/are prevented from variations in the material of which the han- displacement by their engagement within these seats. At a point substantially opposite the end of the handle, the ferrule 10 vide a handle of this character in which the is formed with an outwardly extending bead 80 25 provision of the rotatable or swiveled button 15 which is of greater diameter than the cylindrical portion of the ferrule where it is engaged upon the handle B.

ton which is of circular form and which is 25 crimped about the bead 15. The cap 16 is thus rotatable with respect to the ferrule 10 and its rotary movement is greatly facilitated owing to its engagement upon the bearing balls 14 which will naturally act to 90.

reduce friction. In the form of the invention shown in Figure 3, the above described ferrule is replaced by a metal plate 17 which covers simply the end of the handle. Lalso provide a 95 disk 18 which is disposed upon the plate 17 and which is provided at its periphery with a marginal bead 19 which is concavo-convex driver having a handle constructed in ac- in cross section. A screw 20 passes through the center of the plate 17 and disk 18 for 100 Figure 2 is a detail sectional view taken the purpose of holding them assembled while permitting the disk to rotate with respect to Figure 3 is a view similar to Figure 2 the plate. In this form of the invention, there is also provided a cap 21 which is Figures 4 and 5 are other views similar crimped about the bead 19 so as to rotate 105

In Figure 4 the construction is somewhat Referring more particularly to the draw-different in view of the fact that I provide a ings, and especially Figures 1 and 2, it will disk 22 disposed upon the end of the handle be observed that I have disclosed a screw and secured rigidly thereto as by means of 110 driver which is simply for purposes of illus- a suitable screw 23. This disk 22 is formed

somewhat beyond the end of the handle and which terminates in an outwardly extending subjoined claims. bead 25 which is concavo-convex in cross section and upon which is rotatably engaged

5 the crimped edge 26 of a cap 27.

The form of the invention disclosed in Figure 5 is intended for use in connection ary member disposed upon and extending 60 with tool handles formed of some combina- over the end of a tool handle, means for setion or plastic material and this form distin- curing said member to the tool handle, guishes from that disclosed in Figure 4 only whereby it will be stationary, said member in the omission of the above described screw having an outwardly extending bead at its 23, the disk being formed with a plurality periphery, and a cap rotatably mounted 65 of downwardly inclined converging prongs upon the bead, the cap being crimped about 28 which are embedded within the material the bead to conformingly engage thereof the handle. In every other respect this against. form of the invention is the same as in Figure 4.

the tool the button or cap member is en- curing said member to the tool handle, handle is turned partially in driving a screw or performing any other similar act, depending upon the nature of the tool, it is appar-25 ent that the button or cap will always remain stationary within the palm of the hand. After completing a partial turn of the tool, to carry out the work intended the 3. A device of the character described operator must necessarily turn his hand in 30 the reverse direction in order to give another partial turn to the tool. Whenever 35 ator's hand, and in all forms of the inven-vexed cap rotatable with respect to said reland with the utmost ease. Obviously, there first named bead and rotatable thereon. 40 hand and there is no necessity for him to comprising a metallic member disposable 45 tion and advantages will be readily appar- the handle whereby to have an outstanding explanation.

ferred embodiment of the invention, it should be understood that I reserve the right in said seats and engaging against the inner to make all such changes in the details of side of the cap. construction and arrangement and combina- In testimony whereof I affix my signature. tion of parts, as will not depart from the

spirit of the invention or the scope of the

Having thus described the invention, I

claim:—

1. A rotary hand engaging means for a tool handle comprising a relatively station-

2. A rotary hand engaging means for a tool handle comprising a relatively station- 70 In operation of all forms, it will be read- ary member disposed upon and extending ily apparent that when the operator uses over the end of a tool handle, means for segaged within the palm of the hand. As the whereby it will be stationary, said member having an outwardly extending bead at its 75 periphery and a cap rotatably mounted upon the bead, said relatively stationary member being formed with seats, bearing balls engaged upon said seats and constituting supporting means for the rotatable cap.

comprising a metallic member disposable upon the end of a tool handle, means extending into the tool handle for anchoring said this is done the tool handle will rotate with member with respect thereto, said member 85 respect to the cap or button which always re- having an outstanding peripheral bead conmains stationary with respect to the oper- cavo-convexed in cross section, and a contion it is quite apparent that this rotary atively stationary member and having a movement may occur with very little friction marginal bead conformingly engaging said 96

is no chafing of the palm of the operator's 4. A device of the character described make a partial turn of the tool and then upon the end of a tool handle and having grasp it with the other hand while he ob- a flanged portion embracingly engaging 95 tains a second grip on the handle. It is against and rigidly secured to the handle, really believed that the construction, opera-said member being of greater diameter than ent to one skilled in the art without further bead portion, a convexed cap embracingly engaging the outwardly projecting edge of 16 While I have shown and described the pre-said member, said member being formed with seats, and bearing balls engaged with-

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