M. COLL.

SCREW HOLDING ATTACHMENT FOR SCREWDRIVERS.

APPLICATION FILED JUNE 16, 1919.

1,360,500. Patented Nov. 30, 1920.

FIG. 1.

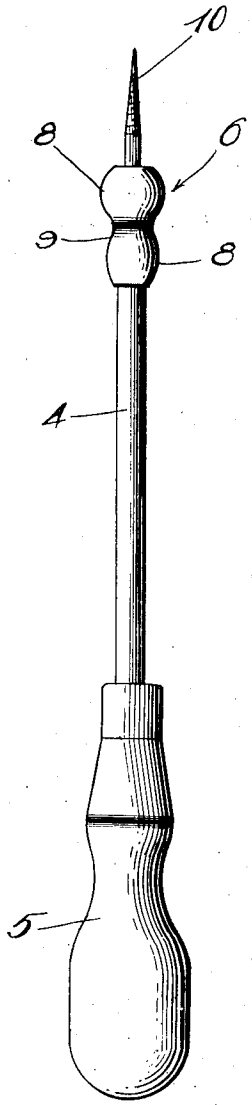


FIG. 3.

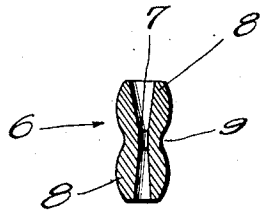


FIG. 4.

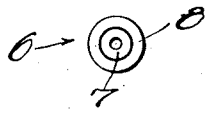
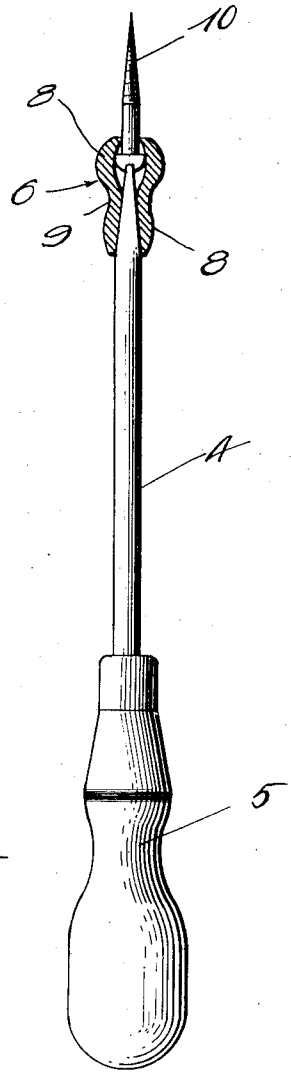


FIG. 2.



Inventor

M. Coll

Witness

George H. Giovanetti

By A. Bellamy & Co

Attorneys

UNITED STATES PATENT OFFICE.

MICHAEL COLL, OF NEW YORK, N. Y.

SCREW-HOLDING ATTACHMENT FOR SCREWDRIVERS.

1,360,500. Specification of Letters Patent. Patented Nov. 30, 1920.

Application filed June 16, 1919. Serial No. 304,402.

To all whom it may concern:

Be it known that I, MICHAEL COLL, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Screw-Holding Attachments for Screwdrivers; and I do 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 invention relates to improvements in screw-holding attachments for screw-drivers.

The main object of the invention is to construct a simple and effective attachment of the above mentioned type which will enable the operator to readily insert screws in places difficult of access, such as cabinets, clock-cases, electric fixtures, machinery, etc.

Another object of the invention is to provide a screw-holding attachment of novel form which may be readily adapted for use in connection with a screw-driver having either a cylindrical or square shank.

A further object of the invention is to construct a device of the above mentioned character which is strong, durable, practical and inexpensive to manufacture.

A further object of the invention is to construct the attachment of elastic material, such as rubber, which will readily adapt itself to different size screws and screw-driver shanks.

Other objects and advantages of the invention will be apparent from the following description:

In the acompanying drawing forming a part of this specification and in which like numerals are employed to designate like parts,

Figure 1 is a side elevation of a screw-driver with my invention applied thereto.

Fig. 2 is a similar view, the attachment being shown in section.

Fig. 3 is a detailed longitudinal sectional view of my improvement.

Fig. 4 is an end view of the attachment.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 4 designates the shank of a screw-driver having the usual tapered point and a handle 5.

The numeral 6 designates, as a whole, my improved screw-holding attachment which is preferably constructed of a high grade elastic rubber. As shown, the attachment is made of a single piece of rubber and is constructed in the form of a sleeve which is symmetrical in longitudinal section. The numeral 7 indicates the central opening or passage through the sleeve. This passage or opening 7 is of a greater diameter at the outer or screw-engaging end and tapers inwardly toward the central portion thereof. The inner or shank engaging end is of a less diameter than the outer or screw-engaging end, as shown in Fig. 3. This construction enables the operator to more readily guide the shank into engagement with the slot in the screw-head.

As shown in the drawing, the device is preferably constructed with thickened portions 8 at the opposite ends thereof for the purpose of reinforcing or strengthening the engagement of it with the shank of the screw-driver and the screw. The narrow central portion, designated by the numeral 9, is for the purpose of allowing one end of the rubber holder to flex laterally with respect to the other end, thus enabling the shank of the screw-driver to come into effective engagement with the head of the screw and also to permit the screw to be slightly angled with respect to the shank of the screw-driver. In operation, a screw 10 is forced into the large or outer end of the central passage 7 and the rubber will frictionally engage and hold the screw tightly therein. The upper or inner end of the rubber holder 6 is now forced on the end of the screw-driver shank 4 in the manner shown in Fig. 2. It will be obvious that the holder being of a flexible material, will conform to the shape of the shank, and screw respectively. It will be noted that the central portion 9 will give or bulge sufficiently to enable the shank and screw to come into effective engagement with one another.

It should also be noted that the attachment, due to the elasticity of the same, is adapted to hold either machine or wood screws having different sized and shaped heads, thus being a substantial improvement over attachments of this general type heretofore used. I also wish to mention here, that the attachment not only fits different sized and shaped screws, but it also adapts itself to screw-drivers having various sized and shaped shanks, and it can be shifted longitudinally thereon to properly bring the screw-driver shank and screw into effective engagement.

It is understood that the form of my in-

vention herewith shown and described is to be taken as the preferred form of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, what I claim is—

A screw holding attachment for a screw driver comprising a tube of elastic material having its central passage tapering from its ends and having its intermediate portion of even diameter between the inner ends of the tapered portions, the tube having its walls reduced intermediate its length and at its ends to provide substantially spherical end portions with the tapered portions of the central pasage formed therein.

In testimony whereof I have hereunto set my hand.

MICHAEL COLL.