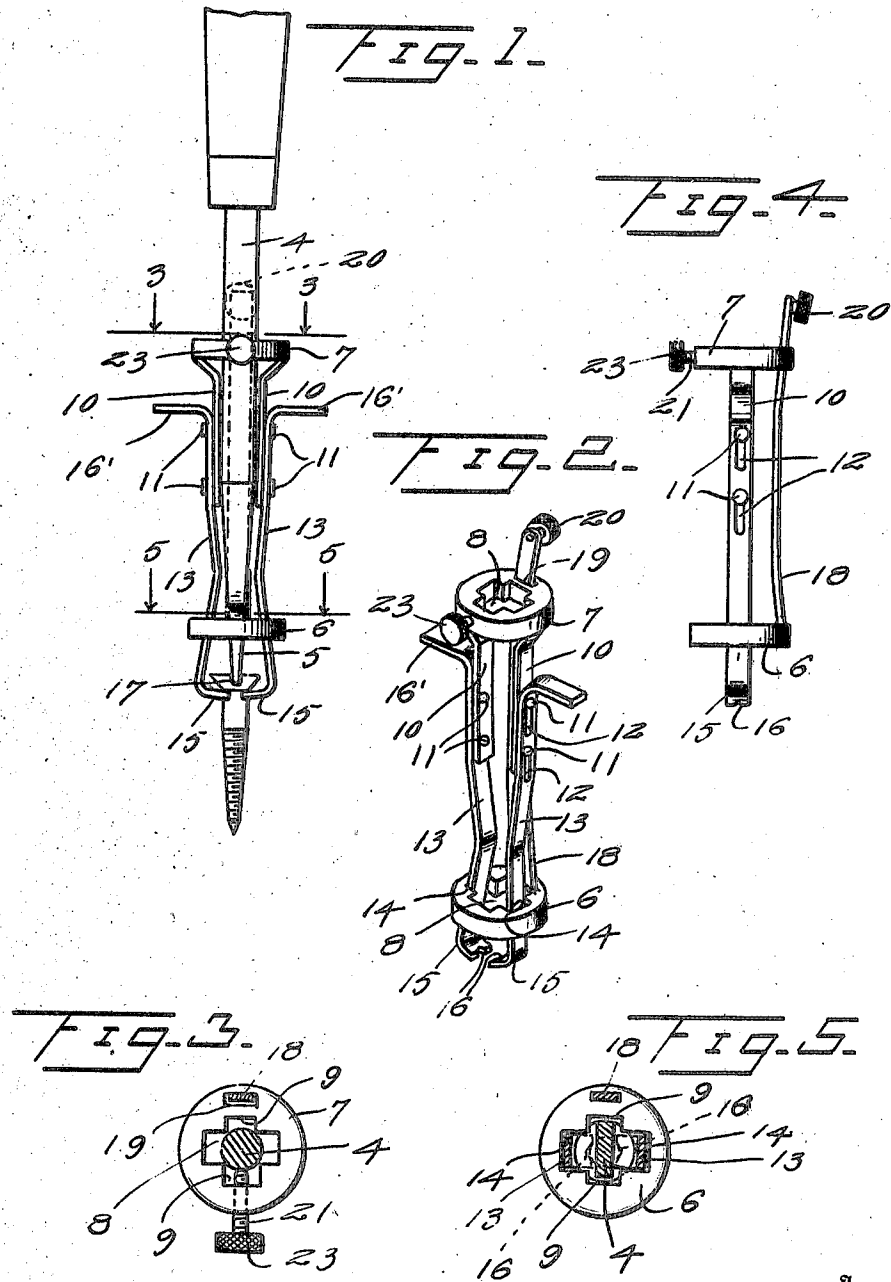


C. W. COLE.  
 SCREW HOLDER FOR SCREW DRIVERS.  
 APPLICATION FILED OCT. 10, 1921.

1,433,341.

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Inventor  
 C. W. Cole  
 By *A. H. Randolph, Jr.*  
 Attorney

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# UNITED STATES PATENT OFFICE.

CHARLES W. COLE, OF ROCHESTER, NEW YORK.

## SCREW HOLDER FOR SCREW DRIVERS.

Application filed October 10, 1921. Serial No. 506,797.

*To all whom it may concern:*

Be it known that I, CHARLES W. COLE, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Screw Holders for Screw Drivers; and I do hereby 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.

This invention relates to an attachment to hold screws in driving relation to screw-drivers to facilitate application and driving thereof.

The invention resides in the novel improved, simplified and efficient combination, arrangement and structural features of the parts forming the attachment as hereinafter described with reference to accompanying drawings illustrating one practical embodiment, and then claimed.

In said drawings:—

Fig. 1 is an elevation of a screw-driver having my attachment applied thereto.

Fig. 2 is a perspective view of the attachment,

Fig. 3 is a cross sectional view on the line 3—3 of Fig. 1,

Fig. 4 is an elevation of the attachment alone taken at a right angle to the position of Fig. 1, and

Fig. 5 is a cross sectional view on the line 5—5 of Fig. 1.

In the different views of the drawings, like reference characters designate like or similar parts.

Referring specifically to said drawings, the invention is applicable to screw-drivers generally, such as the ordinary type, the ratchet type, or those operable through sliding movement of the handle towards the screw. The shank of a screw-driver is shown at 4, having the usual driving end or blade 5. In view of the scope of the attachment, such illustration is to be taken as conventional.

In carrying out the invention, ferrules or rings 6 and 7 are provided being disposed in spaced relation and slidably mounted on the shank 4. Each ferrule has an opening or bore 8 through which the shank 4 extends and said bore is enlarged or provided with diametrically opposite slots 9 to facilitate passage over the widened portion of the blade of the shank.

Spot welded or otherwise secured to the ferrule 7 are rigid arms 10 disposed longitudinally of and on opposite sides of the screw driver. Slidably mounted on arms 10 as by means of fastening studs 11 passing through elongated slots 12 are resilient arms 13 and the latter extend through and beyond and are slidable in slots 14 in the ferrule 6. The free ends of the arms 13 extend toward each other as at lugs 15 and each end has notch or recess 16. Arms 13 are bowed inwardly intermediate their ends to increase their resiliency and tension them to separate at the lugs 15. Manipulation fingers 16 extend from arms 13. Thus, of the ferrule 6 is moved away from the operative end of the screw-driver, said arms 13 will spread apart to release a screw or to facilitate application of one thereto. When the screw, such as that suggested at 16 is engaged, the blade of the screw-driver enters the kerf or slot 17 in the usual manner and the shank of the screw is disposed in and practically completely surrounded by the notches 16.

Secured in any suitable manner, as by spot welding, to ferrule 6 is an arm or rod 18 which passes slidably through and beyond a slot 19 in the ferrule 7 and above said ferrule 7 is preferably provided with a manipulating button or head 20.

In order to secure the device in place upon the shank 4, a machine screw 21 is threaded in the disk 7 and adapted to bind at its free end against said shank. Said set screw 21 has a manipulating head 22.

In use, the attachment is readily applied to or removed from a screw driver, being held in place by means of the set screw 21 binding against the shank 4. When the screw is to be engaged, button 20 is pulled inwardly so as to move the ferrule 6 inwardly, permitting expansion of the arms 13 and separation of the lugs 15. A screw is then applied to the blade so that it will extend into the kerf 17, this action being facilitated by appropriate sliding adjustment of the arms 13 relative to the blade 5. Thereafter knob 20 is pushed outwardly, causing the ferrule 7 to move towards the screw and as a result move the arms 13 inwardly causing them to engage and retain the screw in the notches 16. Due to the expansive action of the arms 13, they frictionally engage the ferrule 7 and thus hold it friction tight in its adjusted positions. With the screw thus fastened, the screw driver may be operated

in the usual manner after placing the screw at the desired location. After the screw has been started into the work, or is near the end of its insertion movement, knob 20 may be drawn away from the screw to permit expansion of the arms 13 to thus release the screw.

It is to be understood that the parts are preferably made of metal but may be made of any desired material and that they may be made of any size desired. It is also to be understood that changes in the details may be resorted to within the spirit and scope.

15 I claim as my invention:—

A screw-holding attachment for screw-drivers comprising a ferrule, means to an-

chor said ferrule on the shank of the screw-driver, arms extending from said ferrule and tensioned to move away from the shank, 20 a second ferrule, said second ferrule having slots receiving said arms and movable along the arms to move them into screw-holding position, a bar extending from the second mentioned ferrule slidable through the first 25 mentioned ferrule and operable to move the second mentioned ferrule, and screw-holding lugs at the free ends of said arms.

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

CHARLES W. COLE.

Witnesses:

ATTILIA D. MERG,  
WARREN R. COLE.