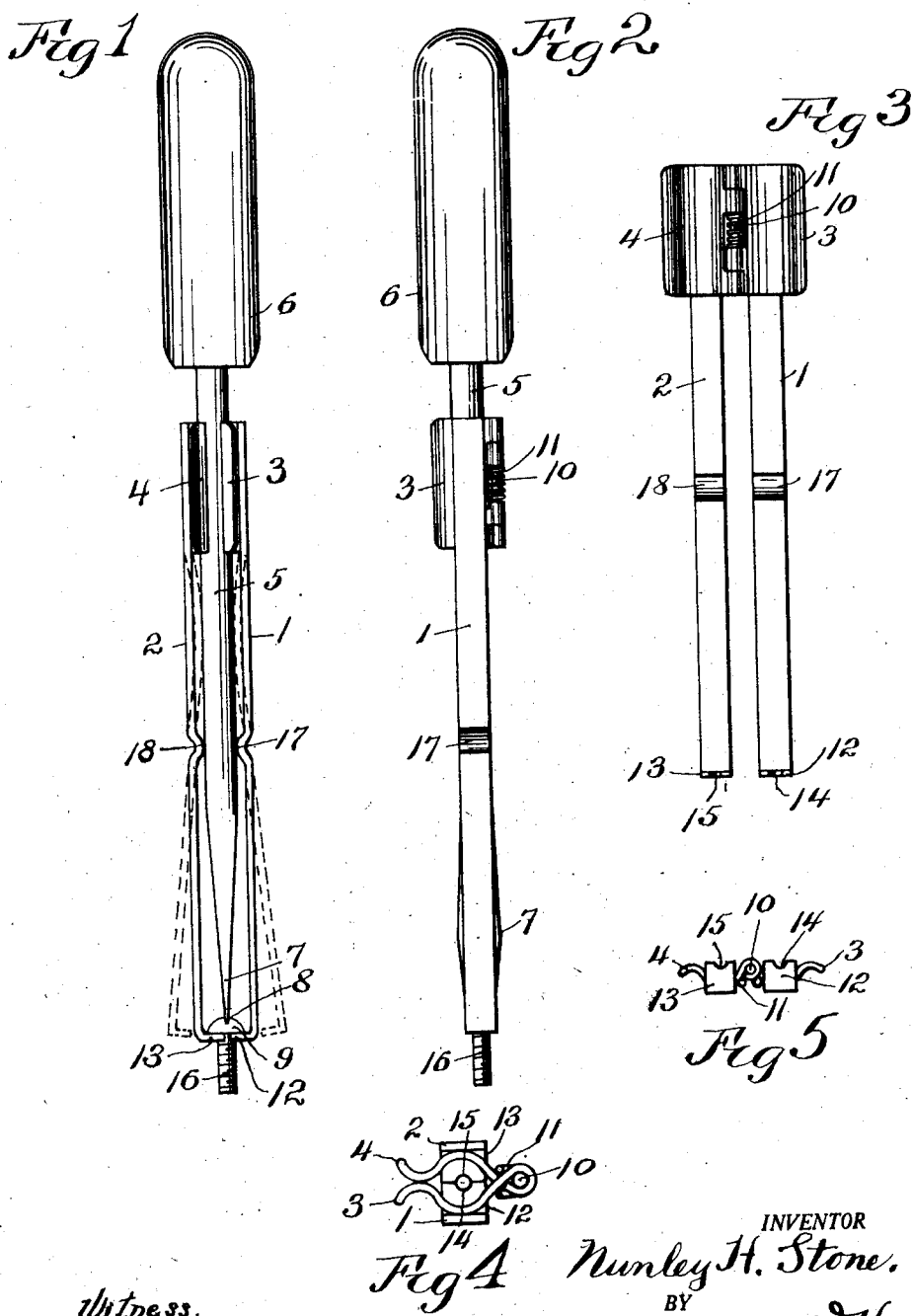


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N. H. STONE
SCREW DRIVER ATTACHMENT
Filed June 11, 1927



Witness.
H. Olson.

Fig 4

INVENTOR
Nunley H. Stone.
BY
Warren A. House.
His ATTORNEY

UNITED STATES PATENT OFFICE.

NUNLEY H. STONE, OF KANSAS CITY, MISSOURI.

SCREW-DRIVER ATTACHMENT.

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My invention relates to improvements in screw driver attachments. It relates particularly to an attachment for supporting a screw in engagement with a screw driver.

One of the objects of my invention is to provide a novel attachment of the kind described, which is simple, cheap, durable, not liable to get out of order, which can be quickly and easily applied to screw drivers of ordinary type now in extensive use, and which will reliably hold a screw engaged with the blade of a screw driver while the screw is being inserted into the position which it is to occupy.

A further object of my invention is the provision of novel and easily operable means for engaging the attachment with or disengaging it from a screw.

Another object of my invention is the provision of novel means for releasably attaching the attachment to the shank of a screw driver.

The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawing, which illustrates the preferred embodiment of my invention—

Fig. 1 is a side elevation of my improved attachment shown mounted on a screw driver and engaged with a screw.

Fig. 2 is a view similar to Fig. 1, but viewed from another side.

Fig. 3 is an inside elevation of the attachment showing the arm supporting members swung from the clamping to a wide open position.

Fig. 4 is a top end view of the attachment shown in the closed clamping position.

Fig. 5 is a bottom end view of the attachment with the parts disposed as in Fig. 3.

Similar reference characters designate similar parts in the different views.

The attachment is provided with two resilient arms 1 and 2 which are respectively attached to and supported by two clamping members 3 and 4 adapted to releasably receive and to be clamped on the shank 5 of a screw driver of usual type having a handle 6 and a blade 7 adapted to enter the slot 8 in the head 9 of a screw.

The members 3 and 4 are connected so as to be swung to and from the clamping position, and they are preferably hinged to each other by a pintle 10.

For normally forcing the members 3 and 4 to the clamping position, a coil spring 11 may encircle the pintle 10 and have its ends respectively bearing against the outer sides of the members 3 and 4.

For holding the screw, the arms 1 and 2 at their lower or outer ends, are respectively provided with two inwardly extending jaws 12 and 13, which register with each other and are adapted to support on their inner or upper sides the head 9 of the screw with the blade 7 in the slot 8 of the screw, as shown in Fig. 1. The jaws 12 and 13 are respectively provided in their inner edges with registering recesses 14 and 15 adapted to receive, when the jaws are in the closed position shown in solid lines in Fig. 1, the shank 16 of the screw.

The arms 1 and 2 intermediate of the members 3 and 4 and the jaws 12 and 13 are respectively fulcrumed on the shank 5 of the screw driver. For this purpose, the arms 1 and 2 are provided respectively with two inwardly extending projections 17 and 18, which form respectively fulcrums for the arms.

In the operation of the invention, the attachment having had the members 3 and 4 slipped on and clamping the shank 5 of the screw driver, the arms 1 and 2 are compressed intermediate of the fulcrum projections 17 and 18 and the members 3 and 4, thus spreading apart the lower portions of the arms to the open position shown in dotted lines in Fig. 1.

The jaws 12 and 13 are then permitted to receive in their recesses 14 and 15 the shank 16 of the screw, the head 9 of the latter resting on the upper sides of the jaws 12 and 13. The screw driver is then adjusted in the members 3 and 4 so that the blade 7 enters the slot 8, as shown in Fig. 1. The screw will now be firmly and securely held so that the screw driver may be operated in the usual manner to screw the screw into the position it is to occupy.

After the screw has been properly started, the arms 1 and 2 above the fulcrum projections 17 and 18 may be pressed toward each other, whereby the jaws 12 and 13 will move apart so as to be disengaged from the screw. The members 3 and 4 may then be slid upwardly on the shank 5 to remove the jaws from a position in which they would interfere with the screwing of the screw to its

head in the object in which it is mounted.

To engage another screw, the members 3 and 4 are then slid downwardly on the shank 5 until the jaws 12 and 13 are again beyond the lower end of the blade 7. The operation, already described, of engaging another screw with the jaws is repeated.

When it is desired to utilize the attachment in the removal of screws from positions which they may occupy in an object, the members 3 and 4 are slipped on the shank 5 toward the handle to a position in which the jaws 12 and 13 will be at the inner side of the end of the blade 7. The screw driver blade is then inserted into the slot 8 of the screw which is to be removed, and then turned to unscrew the screw to a position in which jaws 12 and 13 may be disposed between the head of the screw and the object in which the screw is mounted.

The arms 1 and 2 are then compressed at the inner side of their fulcra, thereby moving the jaws 12 and 13 apart, after which the members 3 and 4 are slipped on the shank 5 away from the handle of the screw driver until the jaws 12 and 13 pass the head of the screw. The arms 1 and 2 are then permitted to resume their closed position with the jaws engaging the shank of the screw under the head thereof.

The screw driver is then turned so as to remove the screw from the object, after which the jaws 12 and 13 will support the screw until it is removed therefrom by hand.

I do not limit my invention to the structure shown and described, as many modifications, within the scope of the appended

claims, may be made without departing from the spirit of my invention.

What I claim is:

1. A screw driver attachment comprising two resilient arms having respectively two jaws arranged to releasably embrace a screw with its slot receiving the blade of a screw driver, and means supporting said arms adapted to slidably engage and releasably clamp the shank of the screw driver, said arms intermediate of their jaws and said supporting means being adapted, when so supported, to bear directly on and be fulcrumed against opposite sides of the screw driver shank, and arranged when compressed between the fulcra and said supporting means to swing said jaws from their normal screw engaging positions.

2. A screw driver attachment comprising two resilient arms having respectively two jaws arranged to releasably embrace a screw with its slot receiving the blade of a screw driver, and means supporting said arms adapted to slidably engage and releasably clamp the shank of the screw driver, said arms intermediate of their jaws and said supporting means having respectively two inwardly extending projections adapted to bear directly on and be fulcrumed against opposite sides of the screw driver shank, said arms being arranged when compressed between said projections and said supporting means to swing said jaws from their normal screw engaging positions.

In testimony whereof I have signed my name to this specification.

NUNLEY H. STONE.