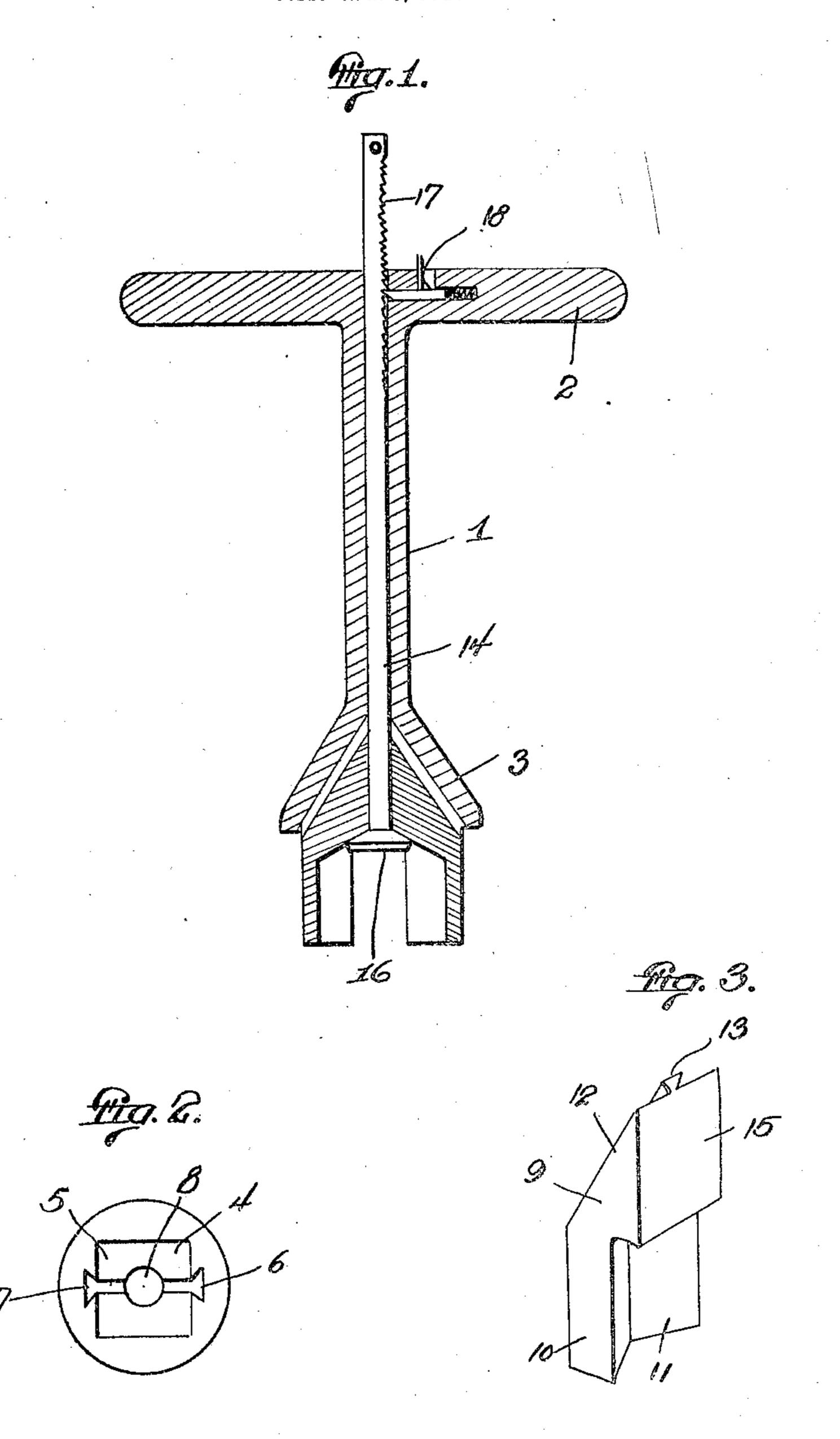
A. E. SILVER.
WRENCH.
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Inventor

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UNITED STATES PATENT OFFICE.

ALBERT E. SILVER, OF FAIRHAVEN, MASSACHUSETTS.

WRENCH.

Application filed April 8, 1921. Serial No. 459,551.

To all whom it may concern:

Be it known that I, Albert E. Silver, a tailed grooves 5 and 6 as shown in Fig. 1. 55 citizen of the United States, residing at An operating rod 14 is extended centrally

10 and more particularly to an improved type wardly and the inclined faces will follow screw to be easily withdrawn.

the gripping jaws will not be disengaged drawn upwardly to tightly engage the nut. 20 from the nut or screw head.

tion of the following detail description and accompanying drawings, wherein:

25 the wrench constructed in accordance with my invention,

Figure 2 is an end view of the socket for receiving the jaws, and

Figure 3 is a perspective view of one of 30 the jaws.

gripping members 10 having V-shaped re- erating rod being connected to the jaws. cesses 11 whereby they may conveniently grip the irregular faces of a nut or screw signature in the presence of two witnesses. 50 head. The top portions of the jaws are each provided with inclined walls 12 conforming to the angular walls 12 of the socket 3 and a rib 13 is provided on the in-

clined surfaces 12 to be fitted into the dove-

Fairhaven, in the county of Bristol and through the opening in the sleeve 1 and 5 State of Massachusetts, have invented cer- downwardly between the vertical faces 15 tain new and useful Improvements in a of the jaws and is equipped with a head 16 Wrench, of which the following is a specifi- which is adapted to engage the jaws so that 60 when the operating rod 14 is drawn up-This invention relates to socket wrenches wardly the jaws will be also drawn upof wrench adapted to be applied to nuts or the inclined faces of the socket so that the the heads of screws in a manner that will jaws may be adjusted toward and away 65 permit the nut to be readily loosened or the from each other. The upper end of the operating rod 14 is provided with screw One of the objects of the invention is to threads or notches 17 adapted to be engaged provide adjustable jaws adapted to be by a manually operated pawl 18 whereby moved in tight contact with the nut or screw the operating rod may be held in its ad-70 head so that when the wrench is actuated justed position after the jaws have been

When the jaws are in engagement with Other objects will appear upon considera- the nut it will be obvious that the handles 2 may be turned to impart the necessary 75 turning movement of the nut or screw head Figure 1 is a longitudinal section through so that the nut may be removed from the bolt or the screw head turned to remove the screw from its position.

What is claimed is:—

A wrench comprising a sleeve having a cross-handle formed on the upper end of same, an operating rod having ratchet teeth Referring to the drawing by numerals, on one side extending centrally through the the sleeve I is of any desired length and is sleeve, a manually operated pawl positioned 85 provided with a handle 2 which is prefer- within said handle and adapted to engage ably in the form of a cross bar adapted to the ratchet teeth of the operating rod to 35 provide handles which may be conveniently maintain said rod in an adjusted position, gripped by the operator. The lower end of a socket on the lower end of the sleeve prothe sleeve 1 is flared outwardly to provide vided with interior angular walls, each wall 90 a tapered retaining member 3 the interior being provided with a dove-tailed groove, of which is provided with an opening hav- gripping jaws having angular portions exing inclined walls 4 and 5. The walls are tending into the said socket, the angular provided with dove tailed grooves 6 and 7 faces of said jaws being in engagement with and these extend along the inclined surfaces said angular walls of the socket, each angu- 95 of the walls and in direct communication lar face on each jaw being equipped with with the longitudinally extending opening the ribs fitted into the said dove-tailed 45 8 in the sleeve 1. A pair of gripping jaws groove whereby longitudinal adjustment of 9 are provided, and each consists of the the said jaws may be made, the said op-

In testimony whereof, I have affixed my ALBERT E. SILVER.

Witnesses:

HAROLD RIMMER,
THOMAS W. ALLISTON.