S. C. FOSTER.

WRENCH.

APPLICATION FILED NOV. 30, 1908.

940,524. Patented Nov. 16, 1909.

Fig. 1.

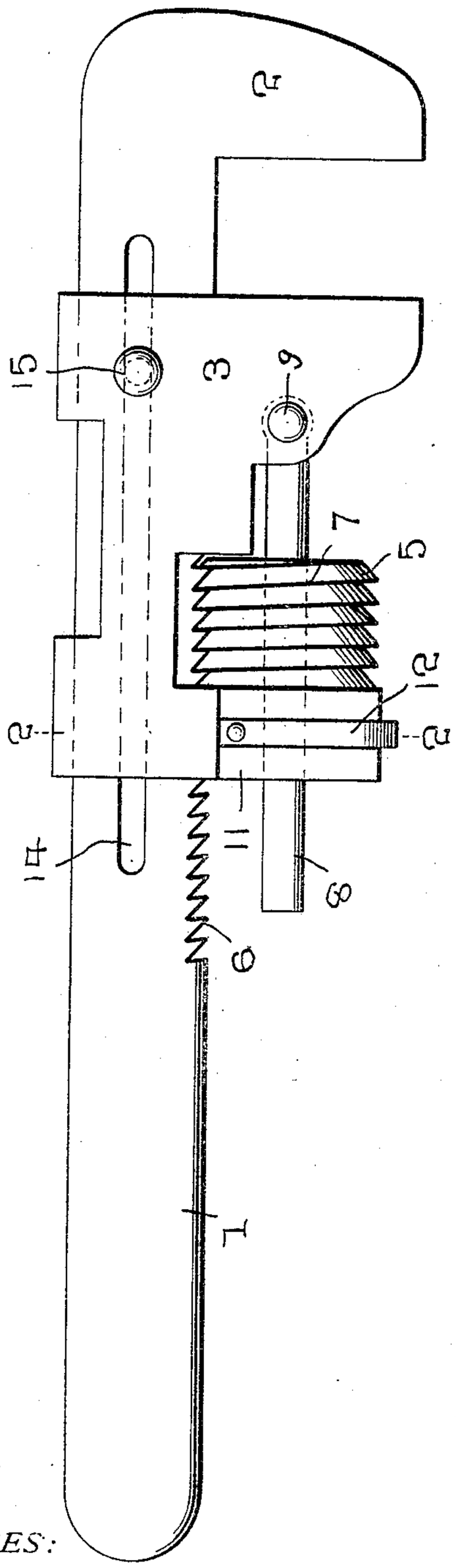


Fig. 3.

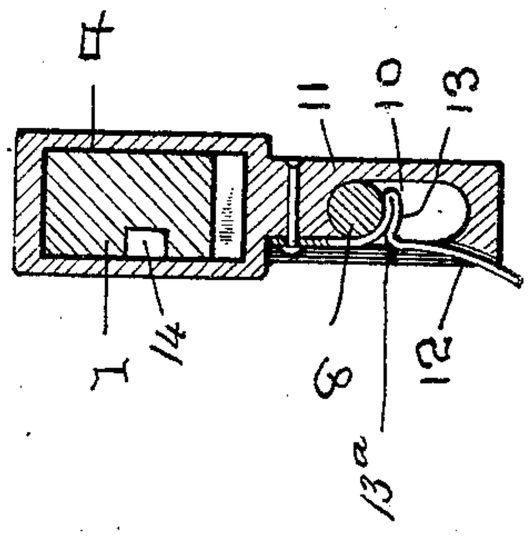
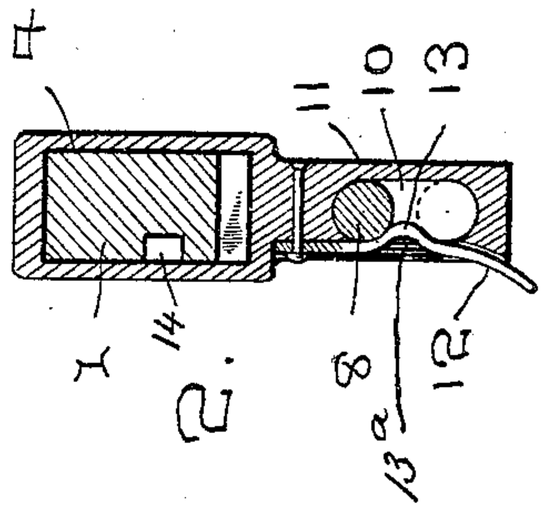


Fig. 2.



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WRENCH.

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Application filed November 30, 1908. Serial No. 465,276.

To all whom it may concern:

Be it known that I, SETH C. FOSTER, a citizen of the United States, residing at Nashville, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Wrenches; 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.

My invention relates to new and useful improvements in wrenches, and my object is to provide for the ready and effective adjustment of the same to a nut or other object to which it may be applied for removal thereof.

The invention also contemplates simplicity and facility of operation and cheapness of manufacture.

Other objects and advantages will be hereinafter referred to and more particularly pointed out in the claim.

Referring to the accompanying drawings which are made a part of this application, Figure 1 is a view in side elevation of the invention, and, Fig. 2 is a transverse section thereof, as seen on line 2—2, Fig. 1. Fig. 3 is a similar view to Fig. 2 showing a modified form of spring.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this application, wherein like characters of reference denote corresponding parts in the several views.

In carrying out my invention, I provide a handle member 1 having, as usual, at one end, a fixed jaw member 2 and upon said handle member 1 is arranged a movable jaw member 3, said latter jaw member being adapted, as shown in Fig. 2, for the passage therethrough of said handle, such adaptation being effected by forming said jaw member with an opening or passage therethrough of angular outline to conform with the cross section of said handle as at 4. The movable jaw 3 is provided or equipped with a quick-threaded screw 5 adapted to engage a corresponding ratchet or toothed surface 6 on the handle 1, as seen in Fig. 1, the action of which will be apparent. Said quick-threaded screw has passing centrally through an opening 7 therein, a lever 8 pivoted as at 9 to said movable jaw, said screw being adapted to slide upon said lever, as well as to rotate upon the same, in actuating said jaw. The lever 8 also extends through a passage 10 in an extension 11 of the jaw member 3, said passage or recess being elongated, as seen in Fig. 2, to permit said lever to be moved laterally or outwardly in a direction away from the handle for the disengagement of the nut 5 from the toothed or ratchet surface 6, as also, of course, to allow of reëngagement between said parts. The extension 11 is equipped with a spring clasp or holding device 12 adapted to be actuated by the thumb or finger, which has its inner edge formed with a shoulder 13 arranged in a lateral slot or opening 13^a in said extension, for effectively holding the lever 8 when the screw 5 is in position for engagement with the toothed surface 6 or for holding said lever when said screw is out of engagement with said toothed surface, as indicated in Fig. 2.

A longitudinal slot 14 is provided in the handle 1 for the reception of the inwardly projecting end of a pin or stud 15 extending through the jaw member 3 for limiting the outward movement of said jaw member and to prevent displacement of the same.

It will be noted that in using the wrench, the jaw members are suitably applied to the nut or other object, previous to which, however, the lever is moved outwardly so as to disengage the screw 5 from the ratchet surface 6 of the handle, as required to allow of the movement of the movable jaw manually to its initial position with relation to the nut or other object. After such movement of said jaw, the lever 8 is moved to its original position and is thus held by the action of the spring clasp 12, again effecting engagement between the screw 5 and the ratchet or toothed surface 6.

In order to jam or bring the jaw 3 into more effective contact with the object or nut, the quick-threaded screw 5 is suitably actuated for effecting that purpose, as will be readily appreciated.

From the foregoing, it will be seen that a simple, cheap and effective wrench is provided for readily carrying out its intended purpose, as in turning nuts upon bolts or applying the device for other purposes for which it may be applicable.

I claim:

A wrench comprising a handle having a toothed or ratchet surface and a fixed jaw, a slidable member having a jaw at one end opposed to the aforesaid jaw and a lateral

extension at its opposite end provided with a slot in one side and a slot extending therethrough at right angles to the plane of the aforesaid slot, said slidable member being arranged upon said handle, one of said slots being adapted to receive a spring clasp, a quick-threaded screw adapted for engagement with said ratchet surface, a lever pivoted to the jaw of said slidable member and carrying said quick-threaded screw said quick-threaded screw having rotatable and slidable connection with said lever, the other slot of said lateral extension being adapted to receive the free end of said lever and to permit lateral movement of said lever for the adjustment of said quick-threaded screw with relation to said ratchet surface of said handle, said spring clasp being adapted to engage said lever for its automatic retention in adjusted position, said handle also having a longitudinal slot receiving a projection or stud from said slidable member for limiting the movement of the latter.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SETH C. FOSTER.

Witnesses:
W. E. EASON,
THOS. M. HEARN.