

J. H. SUOMY.

WRENCH.

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Patented Aug. 14, 1917.

1,237,122.

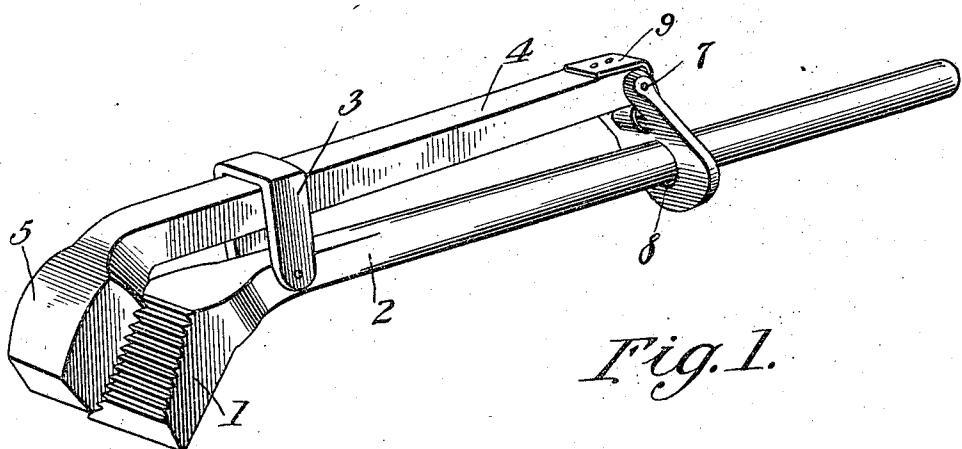


Fig. 1.

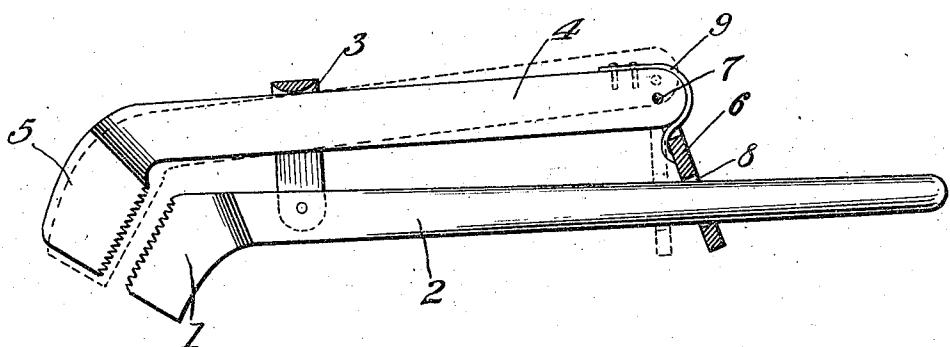


Fig. 2.

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# UNITED STATES PATENT OFFICE.

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## WRENCH.

1,237,122.

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*To all whom it may concern:*

Be it known that I, JOHN H. SUOMY, a citizen of the United States, residing at Nasel, in the county of Pacific and State 5 of Washington, have invented new and useful Improvements in Wrenches, of which the following is a specification.

The present invention relates to improvements in the construction of wrenches.

10 An object of the invention is to produce a wrench which may be easily and quickly adjusted and which will automatically and securely lock itself in adjusted position.

A further object of the invention is to 15 simplify and improve the existing art by producing a wrench including a stationary jaw provided with a handle, a movable jaw formed with a shank which is adapted to be arranged longitudinally with relation to the 20 handle, the said shank having a pivoted locking plate provided with an opening through which the handle passes, said plate being normally sustained at an angle to cause the opposite walls provided by the opening 25 to bite against the handle and so lock the movable jaw upon the stationary jaw.

A still further object of the invention is 30 to provide a wrench of this character having a locking plate upon the shank of its movable jaw formed with an opening to receive the handle of the stationary jaw and having spring pressed means for forcing the plate angularly with relation to the shank and handle to bring the opposite walls of 35 the opening into frictional contact with the handle, and to further provide the handle with a guide bail which encircles the shank of the movable jaw to hold the same against lateral movement with respect to the handle 40 of the stationary jaw but to permit of a swinging movement of the jaw toward or away from the stationary jaw.

With the above and other objects in view, the improvement resides in the construction, 45 combination and arrangement of parts set forth in the following specification and falling within the scope of the appended claim.

In the drawing:

Figure 1 is a perspective view of a wrench 50 constructed in accordance with the present invention, and

Fig. 2 is a side elevation thereof, the guide bail and the locking plate being shown in section and the dotted lines illustrating 55 the arrangement of parts when the movable

jaw is to be adjusted with relation to the stationary jaw.

The wrench includes a stationary jaw 1 having an angularly disposed longitudinally extending handle 2 which for the major 60 portion of its length is preferably round in cross section. The handle 2 adjacent the jaw 1 has pivotally secured to the opposite sides thereof a substantially U-shaped bail 3.

The numeral 5 designates a movable jaw 65 which has an angularly arranged shank 4 that is passed through the guide bail 3 and is arranged in a line with the handle of the movable jaw 1.

The numeral 6 designates the locking 70 member. This member is preferably in the nature of a flat plate and has one of its ends bifurcated to straddle the shank 4 at the end thereof and is pivotally secured to said shank, as indicated by the numeral 7. The 75 plate is provided with an opening 8 through which the handle 2 of the jaw 1 is passed, and the numeral 9 designates a spring which has one of its ends secured to one of the edges of the shank 4 and is continued in contact with the rounded end of the said shank 80 and has its free end contacting with and exerting a pressure upon the plate 6 to normally swing the plate angularly with respect to the shank 4 and with respect to the 85 handle 1. This angular movement of the locking plate causes the opposite walls provided by the opening 8 to bind upon the opposite sides of the handle 2, and so lock the shank upon the handle. When the plate 90 6 is swung to the position illustrated by the dotted lines in Fig. 2, it will be noted that the shank 4 of the movable jaw will be permitted to move longitudinally with respect to the handle 2 of the jaw 1, so that the 95 jaws 1 and 5 may be easily and quickly adjusted with relation to the other. It will be further noted that the guide bail 3 will prevent a sidewise movement of the shank 4 of the jaw 5 but will allow the free longitudinal movement and also a free limited outward movement of the jaw 5 from the 100 jaw 1.

Having thus described the invention, what I claim is:

A wrench comprising a stationary shank having a jaw formed on one end thereof and disposed at an obtuse angle to the shank, a bail pivotally secured to the shank, a movable shank extending through said bail and 110

having one end thereof formed with the jaw disposed at an obtuse angle to the shank, the opposite end of the movable shank being rounded, a locking plate slidably mounted on the stationary shank, parallel spaced arms formed on one end of the plate and pivotally connected to the rounded end of said movable shank, and a leaf spring having one end thereof secured to the movable shank and extending over said

rounded end and between said arms, and having its free end engaging said plate to lock the latter against movement upon said stationary shank.

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

JOHN HELMER SUOMY.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents.  
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