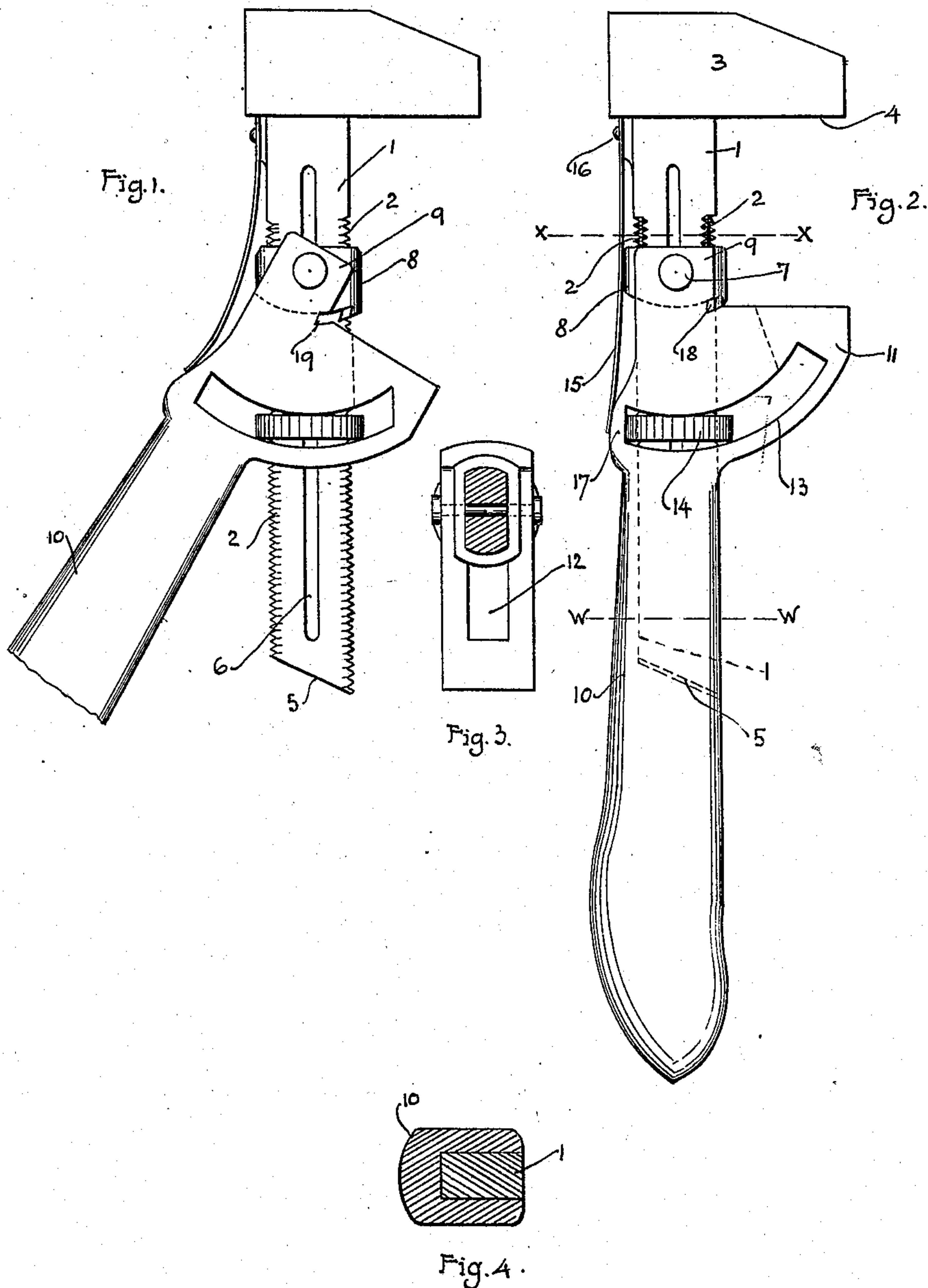


L. FORSYTHE.
WRENCH.

APPLICATION FILED FEB. 20, 1909.

924,444.

Patented June 8, 1909.



Witnesses

Frank Frimman

W. H. Butler

Inventor

L. FORSYTHE

By

H. C. Everett

Attorneys

UNITED STATES PATENT OFFICE.

LLOYD FORSYTHE, OF DAWSON, PENNSYLVANIA.

WRENCH.

No. 924,444.

Specification of Letters Patent.

Patented June 8, 1909.

Application filed February 20, 1909. Serial No. 479,101.

To all whom it may concern:

Be it known that I, LLOYD FORSYTHE, a citizen of the United States of America, residing at Dawson, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to wrenches, and the object of the invention is to provide a quick acting wrench having a novel adjustment for setting the gripping jaw of the wrench, whereby the jaw can be easily and quickly moved into and out of engagement with an object to be rotated.

I attain the above object by providing the shank of the wrench with a pivoted gripping jaw, said jaw being adjusted relative to the shank and movable for quickly engaging or disengaging an object.

The construction of the wrench will be hereinafter described in detail and then specifically claimed, and reference will now be had to the drawings wherein I have illustrated a preferred embodiment of the invention, but I desire it to be understood that the structural elements thereof can be varied or changed without departing from the spirit and scope of the invention.

In the drawings, Figure 1 is a side elevation of a portion of the wrench with the gripping jaw thereof in an open position, Fig. 2 is a similar view of an entire wrench with the gripping jaw thereof closed, Fig. 3 is a horizontal sectional view taken on the line X—X of Fig. 2, and Fig. 4 is a horizontal sectional view taken on the line W—W of Fig. 2.

In the accompanying drawings, 1 designates a shank rectangular in cross section with the front and rear edges thereof provided with teeth 2. The shank 1 has the outer end thereof provided with a fixed jaw 3 having a gripping surface 4, while the inner end of said shank is beveled, as at 5. The shank 1 is provided with a longitudinal slot 6 and extending through said slot is a rivet 7 for loosely holding a sleeve 8 upon the shank 1. The rivet 7 also serves functionally as a support for the handle of the wrench, said rivet extending through parallel lugs 9, carried by the outer end of a handle 10 which is channel-shaped in cross section, whereby said handle can embrace the shank 1.

The outer end of the handle is provided

with a gripping jaw 11, said jaw being bifurcated as at 12, to allow the handle 10 to swing out of engagement with the shank 1. The jaw 11 is provided with segment-shaped slots 13, said slots providing clearance for a knurled nut 14 screwed upon the threads 2 of the shank 1.

To normally retain the handle 10 in engagement with the shank, a spring 15 is used, said spring being secured to the outer end of the shank 1, as at 16 while the inner end of said spring bears upon the protuberance 17 of the handle 10. The closing movement of the handle 10 is limited by the shank 1, and by lateral projections 18, carried by the sleeve 8 and adapted to engage in notches 19 provided therefor in the lugs 9.

From the foregoing description taken in connection with the drawings, it will be observed that the handle 10 can be swung outwardly to move the gripping jaw 11 out of engagement with the nut or object. Said handle may also be easily swung in to place the jaws 3 and 11 in engagement with an object. To adjust the jaw 11 relative to the shank 1, the nut 14 is rotated, to raise and lower the sleeve 8 and the handle pivotally connected thereto.

After the gripping jaw has been placed in engagement with the nut or object, said jaw can be minutely adjusted by rotating the nut 14 to snugly engage the object and prevent the wrench from slipping.

Having now described my invention, what I claim as new, is;—

1. A wrench comprising a toothed shank having a fixed jaw, said shank having a longitudinal slot formed therein, a rivet extending through said slot, a sleeve carried by said rivet and embracing said shank, a handle pivotally connected to said rivet and channel shaped in cross section to provide clearance for said shank, a gripping jaw carried by said handle and bifurcated to provide clearance for a movement of said handle, a nut adjustably mounted upon said shank, said gripping jaw having segment shaped slots formed therein providing clearance for said nut, and means carried by said shank for normally holding said handle in engagement with said shank, substantially as described.

2. A wrench comprising a toothed shank having a fixed jaw, said shank having a longitudinal slot formed therein, a rivet extending through said slot, a sleeve carried

by said rivet and embracing said shank, a
handle pivotally connected to said rivet
and channel shaped in cross section to pro-
vide clearance for said shank, a gripping jaw
5 carried by said handle and bifurcated to pro-
vide clearance for a movement of said handle,
a nut adjustably mounted upon said shank,
and said gripping jaw having segment

shaped slots formed therein providing clear-
ance for said nut.

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

LLOYD FORSYTHE.

Witnesses:

MAX H. SROLOVITZ,
C. V. BROOKS.