

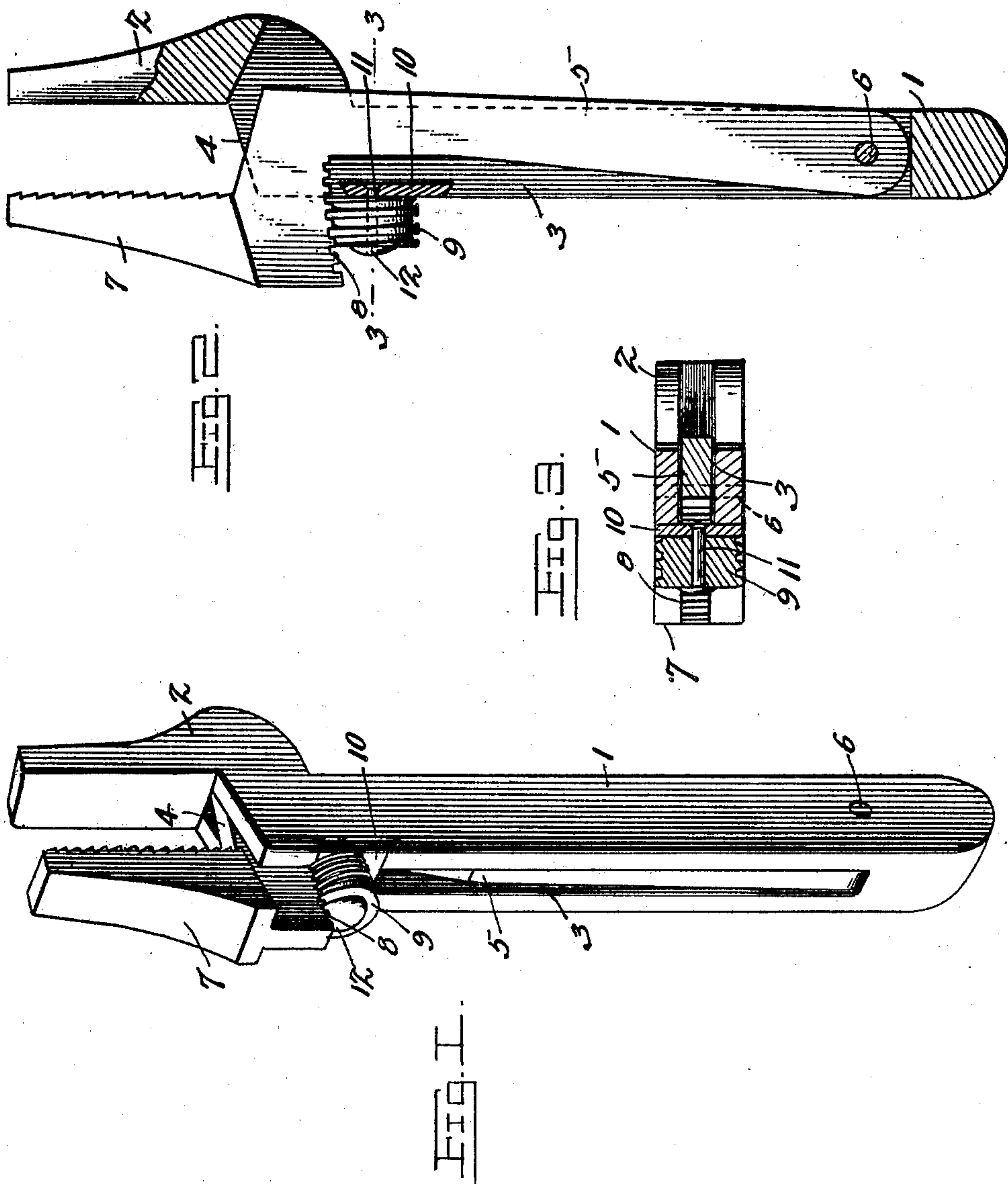
No. 682,241.

Patented Sept. 10, 1901.

M. COOKE.
WRENCH.

(Application filed July 5, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

MANLY COOKE, OF VISTA, IOWA.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 682,241, dated September 10, 1901.

Application filed July 5, 1901. Serial No. 67,190. (No model.)

To all whom it may concern:

Be it known that I, MANLY COOKE, a citizen of the United States, residing at Vista, in the county of Buchanan and State of Iowa, have
5 invented a new and useful Wrench, of which the following is a specification.

This invention relates to wrenches, and has for its object to provide an improved mounting of the jaws thereof, so as to brace the same,
10 and to arrange for the convenient adjustment of the jaws by the hand which grasps the handle of the wrench, thus requiring but one hand to adjust and operate the wrench.

With this and other objects in view the
15 present invention consists in the combination and arrangement of parts, as will be herein-after more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being un-
20 derstood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

25 In the drawings, Figure 1 is a perspective view of a wrench constructed in accordance with the present invention. Fig. 2 is a central longitudinal sectional view thereof. Fig. 3 is a transverse sectional view on the line 3 3
30 of Fig. 2.

Like characters of reference designate corresponding parts in all of the figures of the drawings.

In carrying out the invention there is pro-
35 vided an external handle member 1, which has an outer terminal laterally-offset and longitudinally-extended jaw 2, the handle also having a longitudinal slot or bifurcation 3 extending from the shoulder 4, formed by the
40 offset jaw, inwardly and terminated short of the opposite end of the handle. A movable handle member 5 is loosely mounted in the bifurcation of the relatively-fixed or stationary member and is pivotally connected there-
45 to at its inner end, as indicated at 6. The outer free end of the pivotal member is provided with an outwardly-offset and longitudinally-extended jaw 7, which is offset in the
50 opposite direction from the stationary jaw and is designed to cooperate therewith to grip upon a nut or other object. The inner end of the jaw 7 is provided with transverse teeth 8.

For the convenient adjustment of the movable jaw there is provided an externally-screw-threaded rotatable finger-piece 9, which
55 is mounted upon what will be termed the "inner" side of the stationary handle member and in mesh with the teeth of the movable jaw, so that by rotating the finger-piece the movable jaw may be swung inwardly and
60 outwardly upon its pivotal connection with the stationary member. It will be observed that this finger-piece may be conveniently rotated by the thumb and forefinger of the hand which grasps the handle, thereby leaving the
65 other hand free. To mount the finger-piece, a cross-bar 10 is set into the inner edge of the stationary handle member adjacent to the inner end of the movable jaw, and a pivot-pin 11 is passed through the bar, from the in-
70 nerside thereof, the finger-piece being mounted upon the outer projected end of the pin, which is then upset, so as to provide an outer head 12 to hold the finger-piece against out-
75 ward displacement from the pin.

It will be observed that the inner end por-
tion of the inner end of the movable jaw is received within the bifurcation in the corre-
sponding portion of the stationary jaw, where-
80 by the inner and lighter jaw is effectually braced. Also the cross-bar which supports the finger-piece forms a stop to limit the out-
ward swing of the movable member.

What is claimed is—

1. A wrench, comprising pivotally-connect-
85 ed members provided with cooperating jaws, one of the members having a rotatable externally-screw-threaded finger-piece, and the other member having a laterally-projected toothed portion in mesh with the adjusting
90 finger-piece.

2. A wrench, comprising a bifurcated handle member, provided at its outer end with a laterally-offset and longitudinally-extended
95 jaw, a movable member pivoted within the bifurcation, and having its outer free end provided with a laterally-offset and longitudinally-projected jaw, the inner end of the jaw having teeth, and an externally-screw-
100 threaded adjusting finger-piece rotatably mounted upon the inner side of the first-mentioned handle and in mesh with the teeth of the movable jaw.

3. A wrench, comprising a stationary han-

dle member, having its outer end provided
with a laterally-offset and longitudinally-ex-
tended jaw, the handle being bifurcated from
the shoulder formed by the jaw, a movable
5 handle member pivoted within the bifurca-
tion, with its outer free end projected out-
wardly through the outer end of the bifurca-
tion and provided with a laterally-offset lon-
gitudinally-projected jaw, the inner laterally-
10 projected end of the latter jaw being trans-
versely toothed, a cross-bar provided across
the inner edge of the stationary member and

forming a stop for the movable member, and
an externally-screw-threaded rotatable ad-
justing finger-piece mounted upon the cross- 15
bar and in mesh with the teeth of the mov-
able jaw.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
the presence of two witnesses.

MANLY COOKE.

Witnesses:

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