

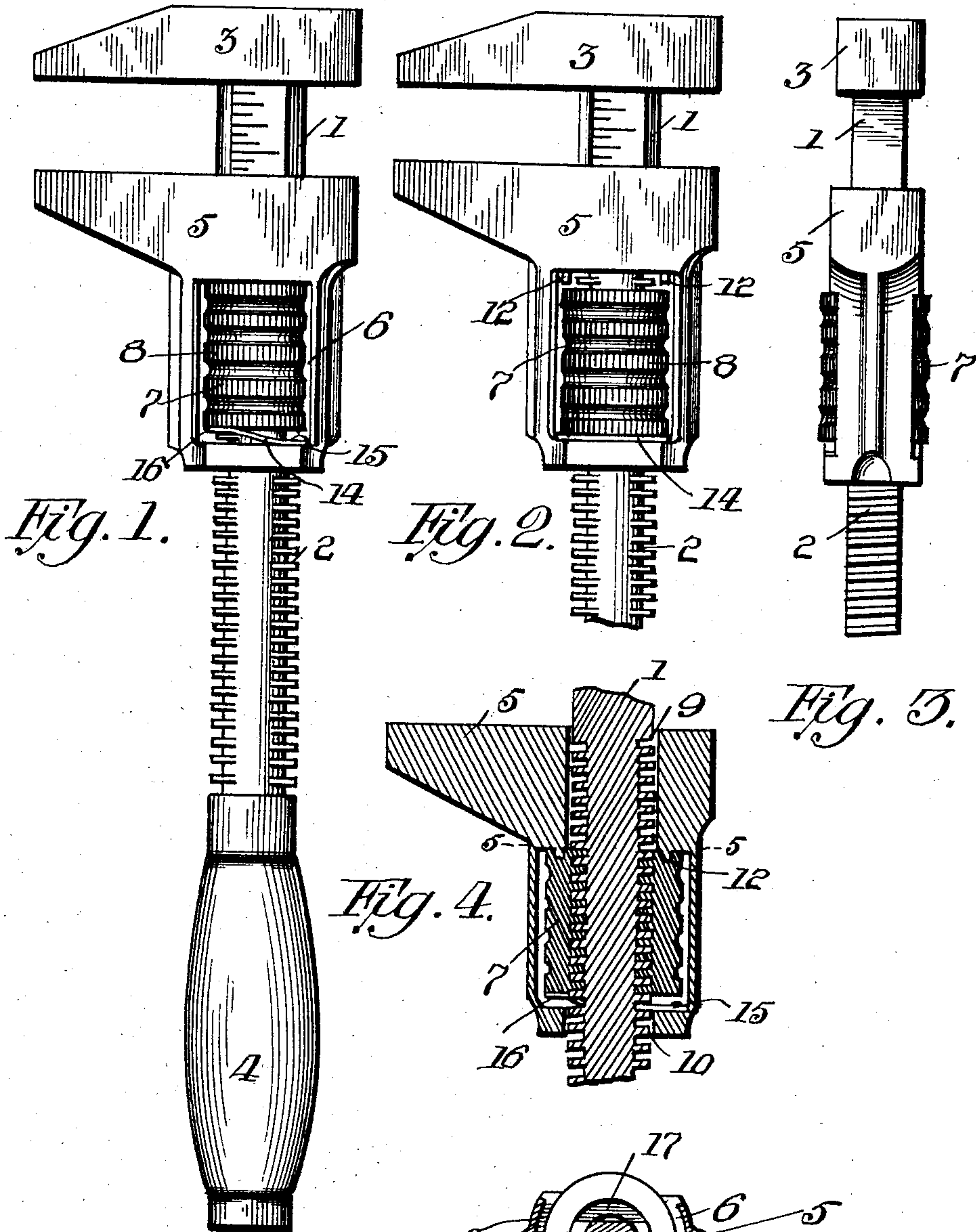
No. 771,556.

PATENTED OCT. 4, 1904.

L. B. KINSEY.
WRENCH.

APPLICATION FILED JAN. 13, 1904.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

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WRENCH.

SPECIFICATION forming part of Letters Patent No. 771,556, dated October 4, 1904.

Application filed January 13, 1904. Serial No. 188,870. (No model.)

To all whom it may concern:

Be it known that I, LEMON B. KINSEY, a citizen of the United States of America, residing at Armagh, in the county of Indiana 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 drawings.

10 This invention relates to certain new and useful improvements in wrenches, and more particularly to that class of wrenches wherein a sliding jaw is adjustable upon the shank of the wrench; and the object of my invention
15 is to provide a wrench of this type which may be easily and quickly adjusted to grip any desired size of nut.

Another object of my invention is to provide means whereby when the sliding jaw has
20 been adjusted the same may be locked in the adjusted position and firmly held.

Briefly described, my improved wrench comprises a shank carrying a fixed jaw, this shank being screw-threaded and having slidably
25 mounted thereon a sliding jaw which carries a sleeve that is adapted to engage the screw-threaded shank. Means is carried by the sliding jaw to engage the sleeve and prevent the same from rotating upon the shank of the
30 wrench.

The invention further consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

35 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this application, and wherein like numerals of reference indicate like parts throughout the several views, in which—

40 Figure 1 is a side elevation of my improved wrench. Fig. 2 is a fragmentary side elevation of the wrench, showing the same in an unlocked position. Fig. 3 is an edge view of the wrench. Fig. 4 is a vertical sectional view
45 of a portion of a wrench. Fig. 5 is a horizontal sectional view taken on the line 5 5 of Fig. 4.

To put my invention into practice, I employ a shank 1, which has two of its sides threaded,
50 as indicated at 2, and upon the one end of said

shank I secure the fixed head 3 and upon the other end the handle 4. Adapted to slide on this shank is the sliding jaw 5, which is cut away, as indicated at 6, to receive a threaded sleeve 7, which is knurled, as indicated at 8, 55 whereby the same may be easily rotated. Communicating with the cut-away portion 6 of this jaw are the openings 9 and 10, whereby the jaw may be adjusted upon the shank 1 of the wrench. The threaded sleeve 7 has 60 recesses 11 upon its upper edge to receive lugs 12, carried by the jaw 5, these lugs projecting into the opening at one end thereof, as shown in Figs. 2 and 4 of the drawings. The opening or cut-away portion 6 of this jaw 65 is slightly larger than the threaded sleeve 7, and upon the base of the cut-away portion 6 I mount the springs 14, the one end of each spring being secured as indicated at 15, while the other end thereof engages the base of 70 the threaded sleeve as indicated at 16, these springs being adapted to engage the base of the threaded sleeve and normally hold the jaw in engagement with the sleeve, as illustrated in Fig. 1 of the drawings. 75

To adjust the sliding jaw of the wrench, the jaw is raised to the position as shown in Fig. 2 of the drawings, whereby the lugs are disengaged from the recesses 11, so the sleeve may be rotated. This sleeve upon its interior 80 has its threads cut away, as indicated at 17 and 18, whereby the sleeve may be rotated, the threads of the sleeve disengaged from the threads of the shank, whereby the same may be rapidly adjusted upon the shank, and then 85 rotated to engage these threads again and hold the jaw in its desired position. When the party using the wrench releases the jaw from its position, as shown in Fig. 2, the springs 14 will cause the lugs 12 to engage in 90 the recesses 11 of the sleeve when the sleeve has been rotated sufficiently for the recesses to register with the lugs.

In Figs. 1 and 2 of the drawings I show the shank having a scale placed upon its sides, 95 whereby the same may be used to set the sliding jaw at any predetermined space to which it is to be used.

It will be obvious that various changes may be made in the details of construction with- 100

out departing from the general spirit of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a wrench of the character described, the combination of a threaded shank having a fixed jaw upon its one end and a handle upon its other end, a sliding jaw mounted upon said shank, a threaded sleeve carried by said shank, said sleeve having a portion of its threads cut away, said jaw having a cut-away portion formed therein in which said threaded sleeve is mounted, recesses formed in the top of said threaded sleeve, and lugs carried by the sliding jaw and adapted to engage in said recesses, substantially as described.

2. In a wrench of the character described, the combination of a threaded shank having a fixed jaw upon its one end and a handle upon its other end, a sliding jaw mounted upon said shank, and having a cut-away portion, a sleeve carried by the shank and mounted in said cut-away portion, said sleeve having threads arranged therein and adapted to

engage the threads of the shank, said sleeve having recesses formed therein, said jaw carrying lugs adapted to engage in said recesses, and means to normally hold said sleeve in engagement with the lugs of the jaw, substantially as described.

3. A wrench of the type set forth, comprising a shank having threads upon two of its sides, said shank having a fixed jaw upon its one end and a handle upon its other end, a sliding jaw mounted upon said shank, said jaw having a cut-away portion formed therein, a threaded sleeve carried by the shank of the wrench and mounted in said cut-away portion of the jaw, a portion of the threads of said sleeve being cut away, said sleeve having recesses formed in its upper edge, said jaw carrying lugs, and means carried by said jaw to normally hold said lugs within said recesses, substantially as described.

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

LEMON B. KINSEY.

Witnesses:

NELLIE DRIPPS,
W. H. STILES.