

No. 746,382.

PATENTED DEC. 8, 1903.

T. J. ROBERTSON.
MONKEY WRENCH.

APPLICATION FILED AUG. 27, 1903.

NO MODEL.

Fig. 1.

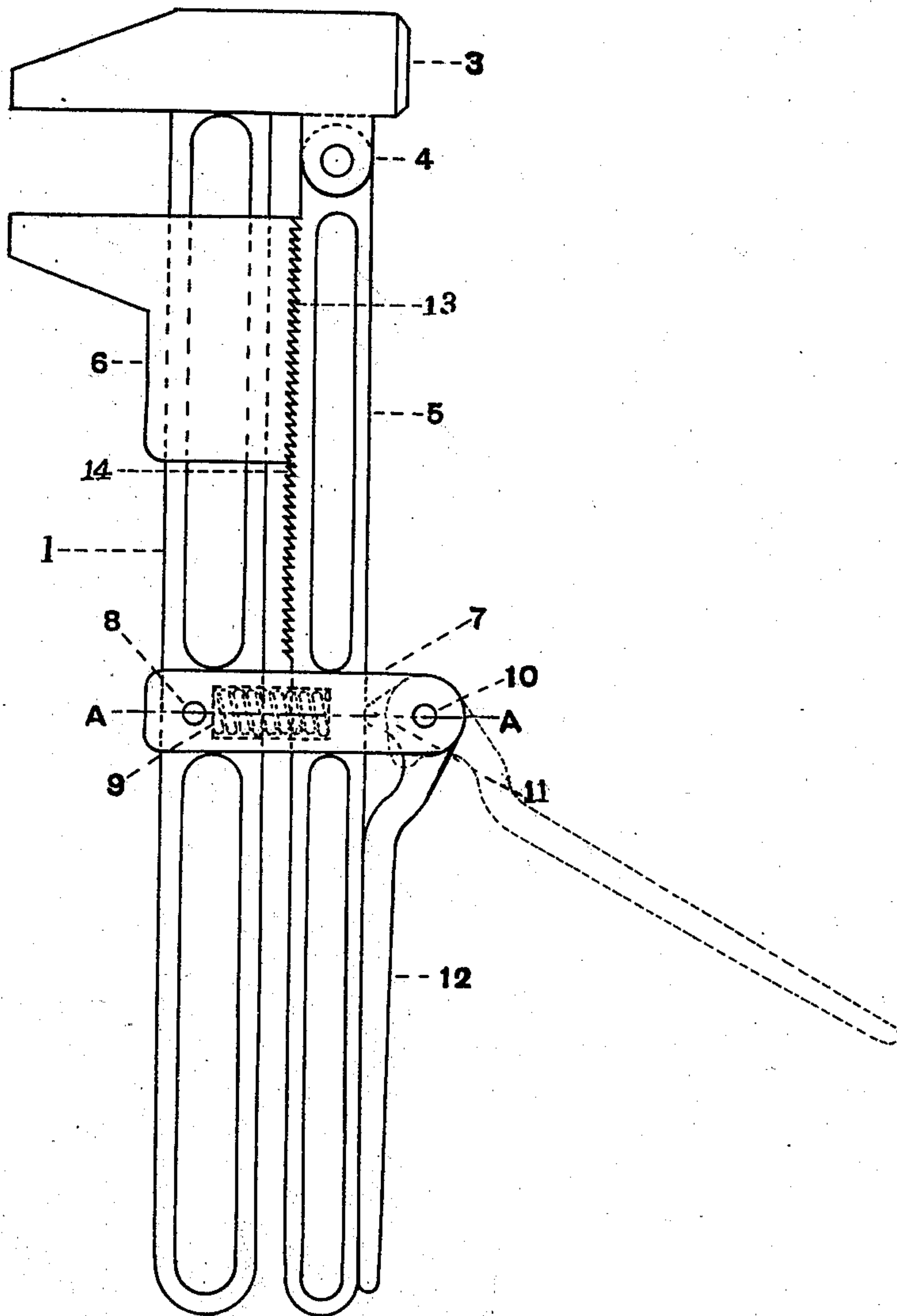
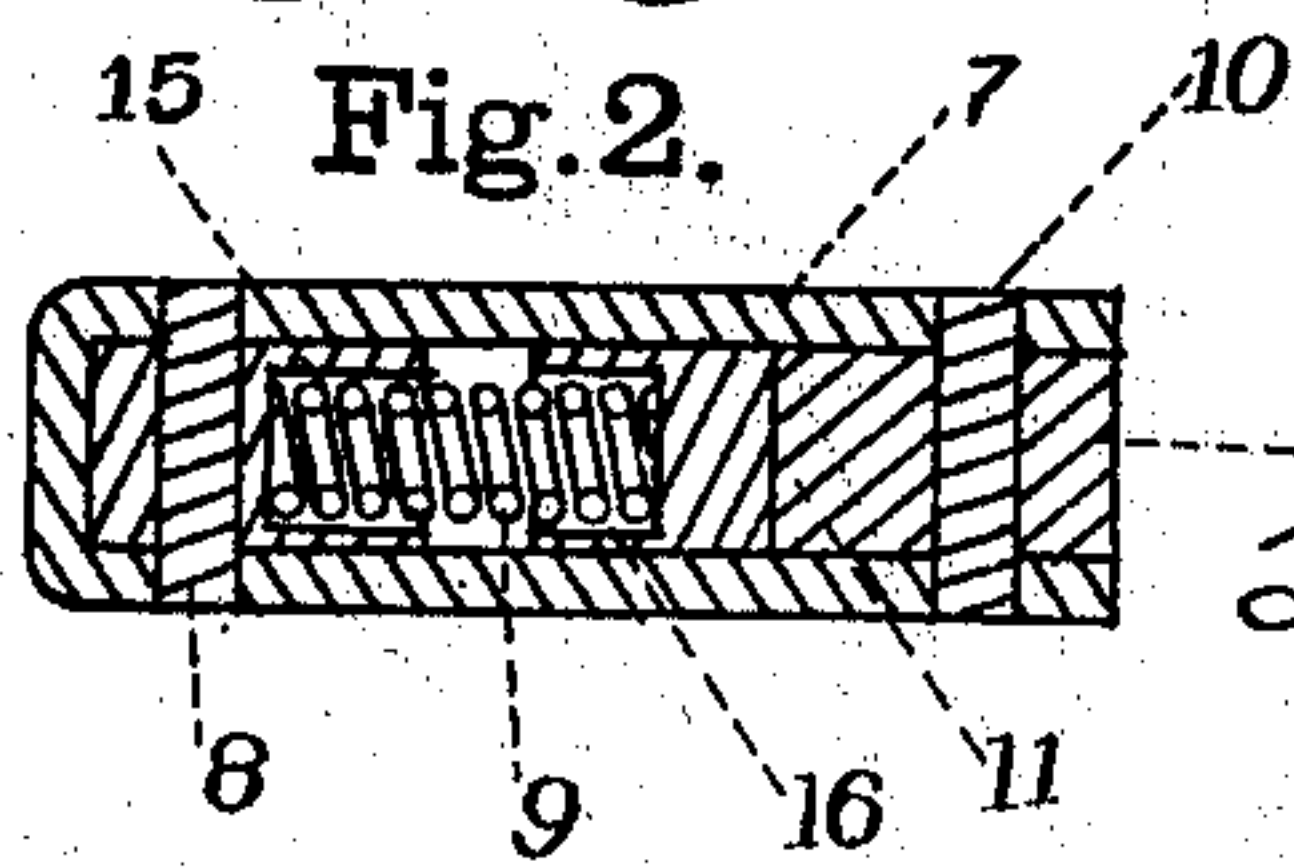


Fig. 2.



WITNESSES:

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THOMAS J. ROBERTSON, OF OAKHILL, ARKANSAS, ASSIGNOR OF ONE-HALF
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MONKEY-WRENCH.

SPECIFICATION forming part of Letters Patent No. 746,382, dated December 8, 1903.

Application filed August 27, 1903. Serial No. 171,002. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. ROBERTSON, a citizen of the United States, and a resident of Oakhill, in the county of Carroll and State of Arkansas, have invented a new and useful Improvement in Monkey-Wrenches, of which the following is a specification.

My invention relates to an improvement in "monkey-wrenches," as they are termed; and the present invention is of the quick-action type and comprises a main bar and fixed jaw, together with a sliding jaw having teeth thereon, in combination with a hinged locking-bar and hand-lever for locking said bar to the sliding jaw, whereby the latter is held in its adjusted position.

My invention still further consists in certain novel features of construction and combinations of parts, which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation, parts being shown in dotted lines; and Fig. 2 is a transverse section on line A A of Fig. 1.

The bar 1 of the wrench has the usual fixed jaw 3 on one end, and a sliding jaw 6 is loosely mounted on the bar 1 and adapted to cooperate with the fixed jaw 3 in the usual manner when adjusted to the size of the nut to be turned or the bolt-head to be held.

A locking-bar 5 is hinged at 4 to the outwardly-projecting rear end of jaw 3, and this locking-bar 5 is provided with upwardly-projecting ratchet-teeth 13, which are adapted to engage or register with corresponding downwardly-projecting ratchet-teeth 14 on the rear of sliding jaw 6, whereby to lock said jaw in its adjusted position or release it, as the case may be, accordingly as locking-bar 5 is swung inwardly, as shown in Fig. 1, or outwardly, as is provided for by the construction.

A yoke 7 is held by a pin 8 on the bar 1, at or near the center of the latter, and a spring 9, seated in recesses 15 and 16 of bars 1 and 5, respectively, is adapted to press outwardly on the locking-bar 5, whereby to throw the locking-bar outward and away from jaw 6 normally and when not otherwise hindered. A handle-lever 12, fulcrumed on pin 10 at the rear end of the yoke 7 and immediately back

of locking-bar 5, is provided with a V-shaped cam 11, the point of which is preferably slightly blunt or rounded, and this cam is adapted to lock the locking-bar 5 inward against the teeth of jaw 6 when the handle-lever 12 is swung downward alongside and in contact with the lower or free end of the locking-bar 5, as shown in Fig. 1. This provides a secure fastening for jaw 6, and any possibility of accidental movement or displacement is precluded by the fact that in manipulating the wrench this hand-lever is grasped by the operator's hand as he holds the ends of bars 1 and 5.

To release and readjust sliding jaw 6, the hand-lever 12 is swung outwardly, as indicated in dotted lines, thus affording latitude for an outward movement of the locking-bar 5 resulting from the expansive action of spiral spring 9, interposed between the bars 1 and 5, which action removes teeth 13 from teeth 14 and liberates sliding jaw 6. In this way a quick-acting as well as a powerful wrench is provided which will always prove faithful in the performance of its functions.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein set forth; but,

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

1. In a wrench, the combination with a bar having thereon a fixed and movable jaw, and a locking-bar hinged at one end at or near the fixed jaw and its length being practically coextensive with the length of the bar which carries the jaws, this locking-bar and the sliding jaw having interlocking means whereby the movable jaw is held in adjusted position thereby, and a hand-lever which locks the locking-bar and movable jaw together, said hand-lever extending alongside and parallel with the ends of the jaw and locking-bars when in its normal position whereby the three together form a handle by which the wrench is manipulated to turn a nut.

2. In a wrench, the combination with a bar

having a fixed jaw and a jaw mounted to slide thereon, said jaw having a toothed rear edge, of a toothed locking-bar hinged at one end, a yoke secured to the main bar and embracing
5 the locking-bar, a spring located in the yoke and interposed between the two bars and normally pressing outwardly against the locking-bar, a hand-lever pivoted in the yoke and provided with a cam adapted to lock the teeth
10 of the locking-bar against the teeth of the

sliding jaw when the hand-lever is in its normal position.

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

THOMAS J. ROBERTSON.

Witnesses:

JOHN BONE,

CHARLES CARNEY.