No. 826,769. PATENTED JULY 24, 1906.

A. D. DAVIS.

SLIDING JAW WRENCH.

APPLICATION FILED MAR. 20, 1906.

Fig. 1.

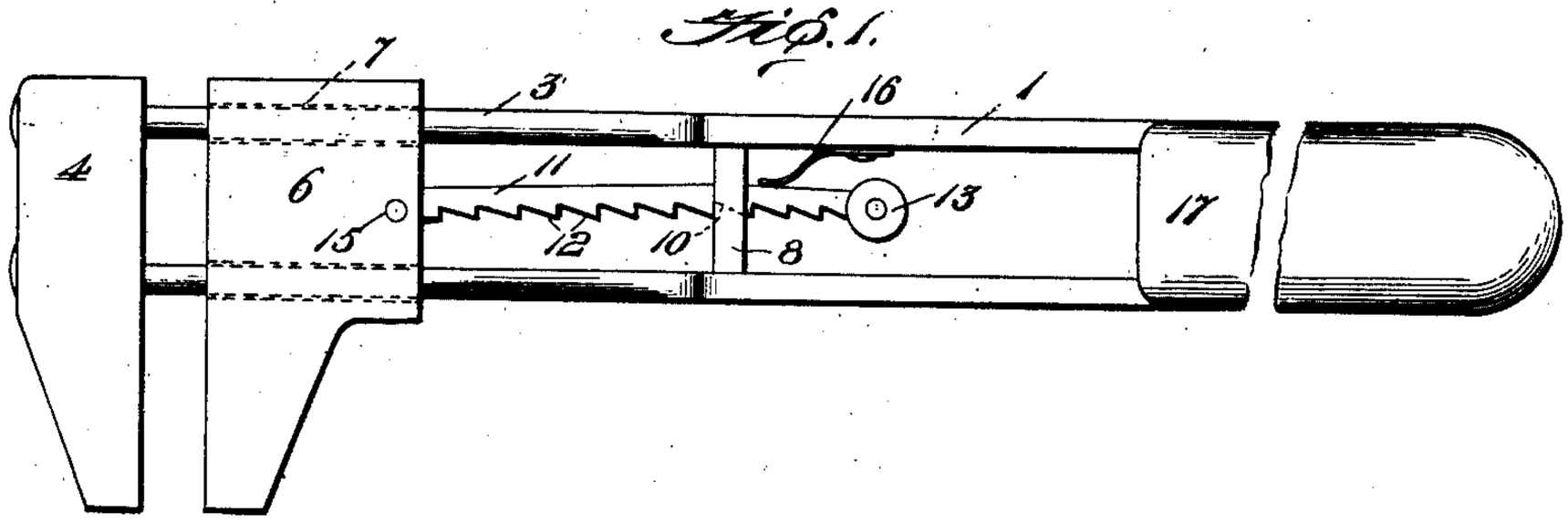


Fig. 2.

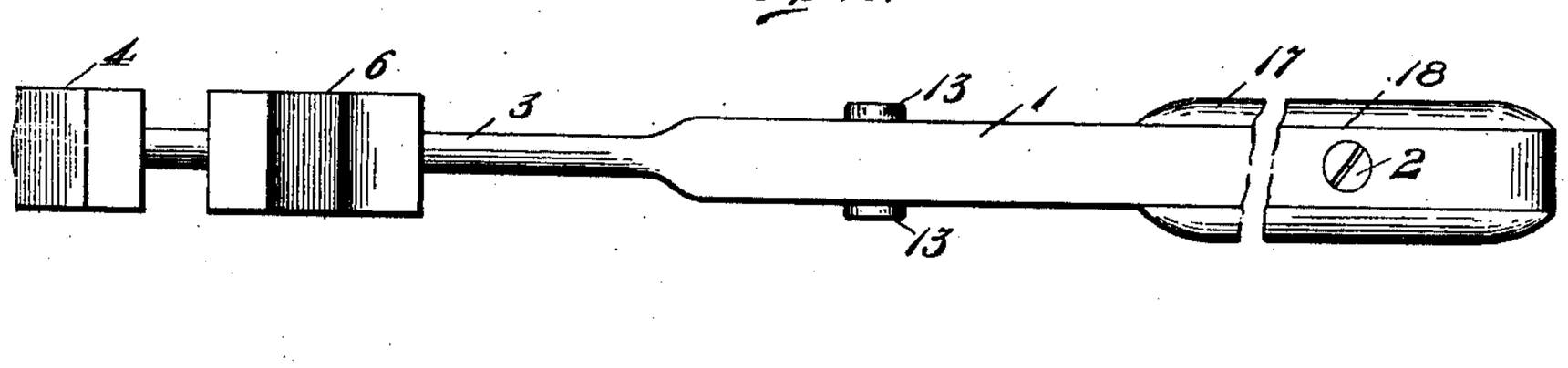
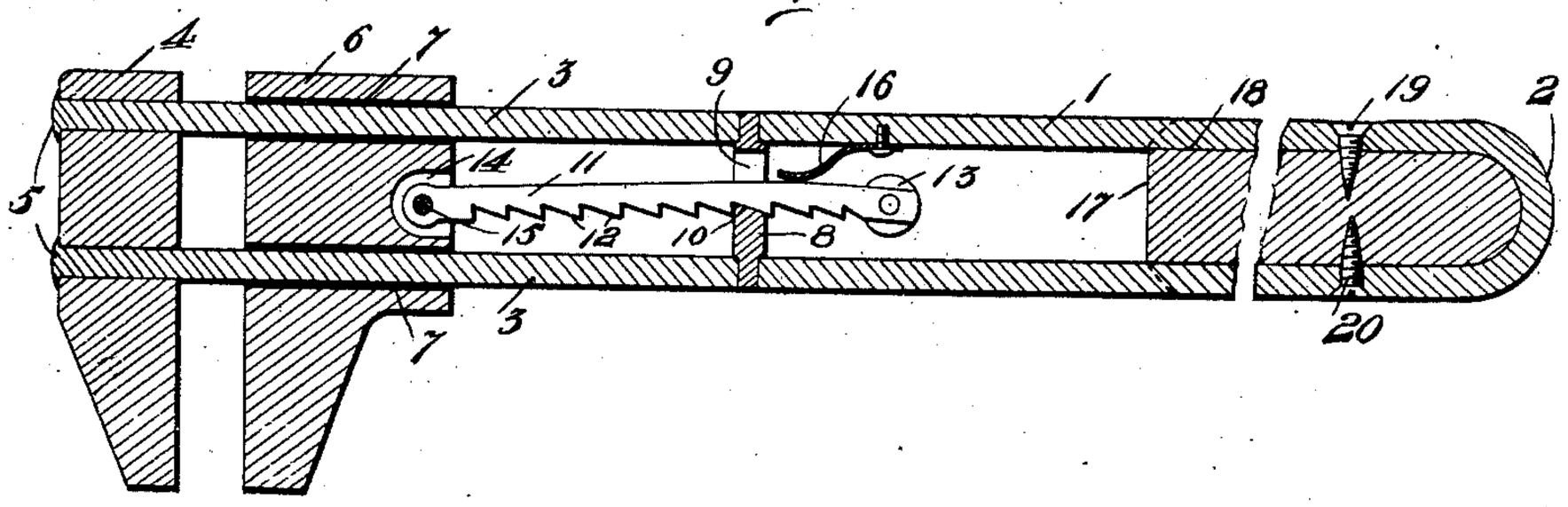


Fig. 3.



Witnesses.
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Arthur D. Davis
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UNITED STATES PATENT OFFICE.

ARTHUR D. DAVIS, OF BAGGS, WYOMING.

SLIDING-JAW WRENCH.

No. 826,769. Specification of Letters Patent. Patented July 24, 1906.

Application filed March 20, 1906. Serial No. 307,113.

To all whom it may concern:

Be it known that I, ARTHUR D. DAVIS, a citizen of the United States, residing at Baggs, county of Carbon, and State of Wyoming, have invented certain new and useful Improvements in Sliding-Jaw Wrenches, of which the following is a specification.

My invention relates to sliding-jaw wrenches having a locking-bar pivoted to the sliding jaw.

The object of the present invention is the provision of a quick-acting wrench of the general class set forth wherein a novel frame construction is provided which insures proper guidance of the sliding jaw and prevents it from twisting and also renders the wrench of great strength and durability and cheapness of manufacture.

Another object of the invention is to provide a locking rack-bar pivoted to the sliding jaw and coöperating with the handle-frame in an improved fashion to lock the sliding jaw in adjusted position, permit rapid and easy adjustment and instantaneous locking of the sliding jaw.

Other objects of the invention will appear from the following description, wherein the construction is fully set forth, and the novel features are recited in the appended claims.

In the accompanying drawings, Figure 1 is a side view, Fig. 2 an edge view, and Fig. 3 a longitudinal section.

The frame 1 is made of a single piece of bar metal bent at 2 and having the legs or frame pieces thereof parallel and formed into guides 3, which are preferably cylindrical, these guides passing through the fixed jaw 4 and rigidly connected thereto by upsetting at 5. The sliding jaw 6 has openings 7, through which the guides 3 pass. A brace and locking-piece 8 connects the frame-pieces and is riveted thereto, this locking-piece having an opening 9 provided with a locking-tooth or shoulder 10.

The numeral 11 designates a locking-bar having teeth 12 and provided at its free end with finger-holds 13, which project beyond opposite sides of the frame 1, so as to be in position to be grasped by the thumb and forefinger. The locking-bar is entered loosely in the opening 14 in the sliding jaw and pivoted on a pin 15, and said locking-bar passes freely through the opening 9, and the teeth 12 are adapted to engage with the locking-shoulder 10, the bar being urged by a leaf-spring 16, which is secured to one of the pieces of frame 1.

A wooden handle-piece 17, having grooved sides 18, which fit the flat side pieces of the frame 1, is fitted in between said frame-pieces and held by the screws 19 and 20. This handle-piece may be split longitudinally for convenience of insertion, if desired, in which case the two halves would be connected by a rivet or screw.

To adjust the sliding jaw, the user grasps the finger-holds 13 with thumb and forefinger and draws back the locking-bar against the action of the spring, thereby disengaging the teeth 12 from the locking tooth or shoulder 10, whereupon the sliding jaw can be moved to the desired position with the thumb and forefinger, and upon release of the finger-holds the spring snaps the locking-bar into engagement with the tooth 10, thereby securely holding the sliding jaw in the desired position.

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

1. A wrench comprising a frame or handle-piece having substantially parallel parts, a fixed jaw secured to said parts, a movable jaw mounted to slide on said frame parts, a cross-piece connected to and interposed between the frame parts and having an opening therethrough and provided with a locking-tooth, a toothed locking-bar pivoted to the locking-jaw and disposed between the frame parts and passing through the opening in the cross-piece and adapted to engage with the locking-tooth.

2. A wrench comprising a frame or handle-piece having substantially parallel parts, a fixed jaw secured to said parts, a movable jaw mounted to slide on said frame parts, a cross-piece connected to and interposed between the frame parts and having an opening therethrough and provided with a locking-tooth, a toothed locking-bar pivoted to the locking-jaw and disposed between the frame parts and passing through the opening in the cross-piece and adapted to engage with the locking-tooth, and a spring interposed between the locking-bar and the frame which is adapted to engage the teeth of the locking-bar with the tooth on the cross-piece.

3. The herein-described wrench comprising a frame and handle-piece made out of a single piece of material bent in elongated-U shape, a stationary or fixed jaw secured to the said frame or handle-piece, a jaw slidably mounted on the members of the frame or

handle-piece, a cross-piece located between and connected to the members of the frame or handle-piece and provided with an opening therethrough and with a locking member, a toothed locking-bar pivoted to the movable jaw and passing through the opening in the cross-piece disposed within the handle piece or frame, finger-holds connected to the locking-bar and projecting from opposite sides of the handle piece or frame, and a leaf-spring secured to the handle-frame and bearing upon the locking-bar and adapted to cause it to normally engage with the locking member of the cross-piece.

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

ARTHUR D. DAVIS.

Witnesses:

L. CALVERT,

WM. MAGOR.