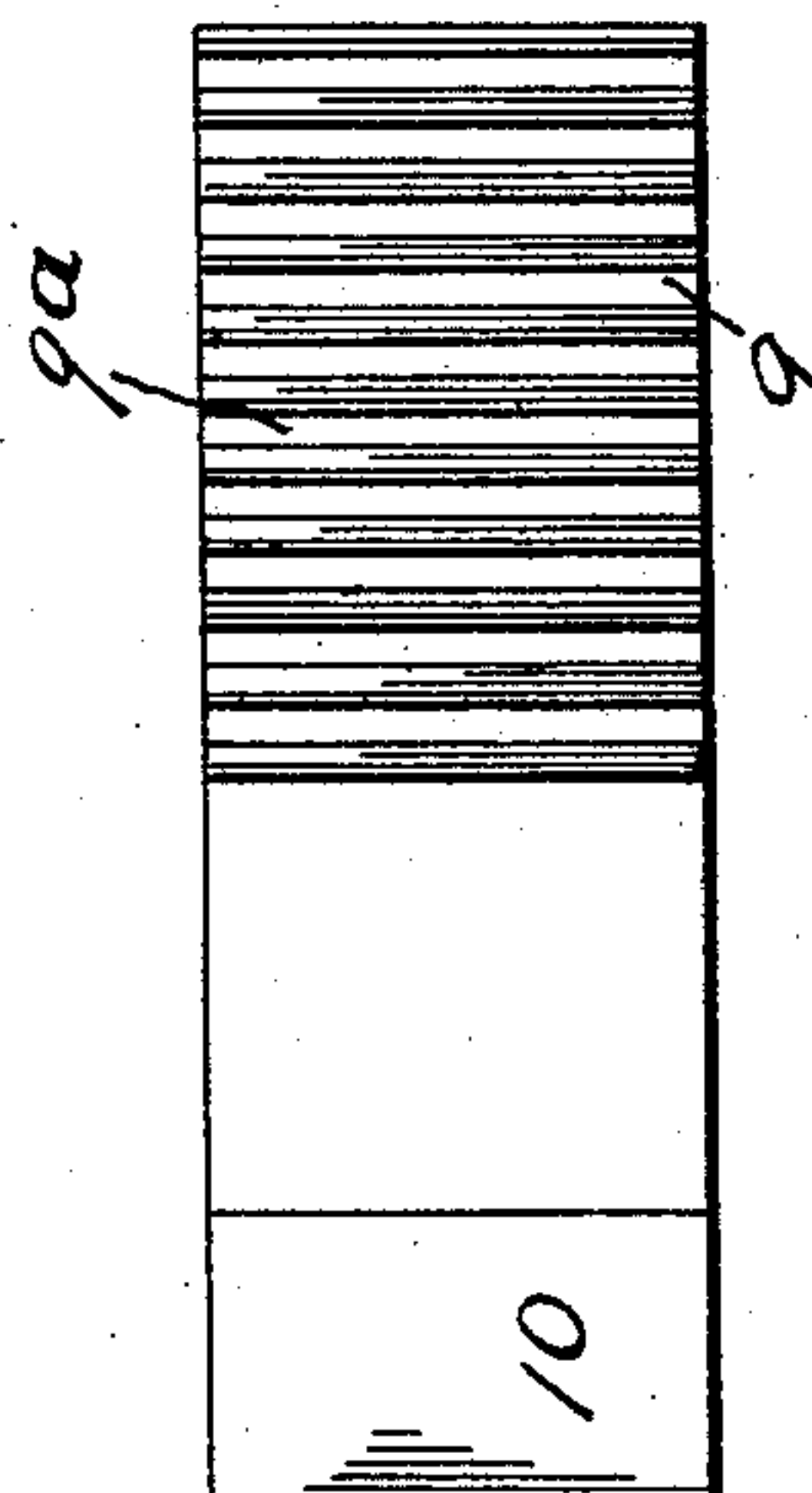
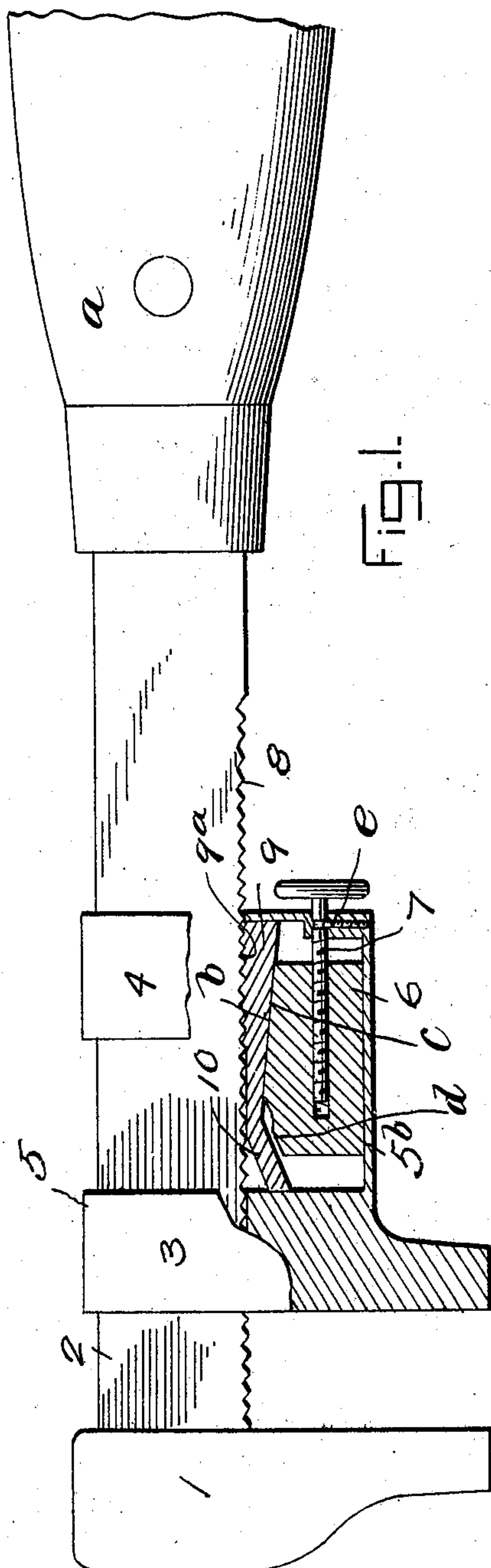


No. 859,922.

PATENTED JULY 16, 1907.

R. O. DANIEL.  
WRENCH.

APPLICATION FILED APR. 10, 1907,



Witnesses

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# UNITED STATES PATENT OFFICE.

ROBERT O. DANIEL, OF COMANCHE, TEXAS, ASSIGNOR OF ONE-THIRD TO J. E. JAMESON, OF DALLAS, TEXAS.

## WRENCH.

No. 859,922.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed April 10, 1907. Serial No. 367,412.

*To all whom it may concern:*

Be it known that I, ROBERT O. DANIEL, a citizen of the United States, residing at Comanche, in the county of Comanche and State of Texas, have invented a new and useful Wrench; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention pertains to a new and useful wrench, and it has for its object to provide a strong, durable and efficient device of this character which may be set readily at the desired adjustment, to fit the size of nut to be unscrewed.

A further object is to provide a wrench having a movable wedge-shaped member, to cooperate with a vertically movable locking member, both being carried within a housing, which is integral with the movable jaw of the wrench. Said wedge-shaped member is designed to reciprocate through the action of the screw, which is threaded therewith and is also swiveled in the wall of the said housing, as will be clearly manifest.

With these and other objects in view, the invention consists in the novel construction and arrangement of parts, hereinafter described and shown and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a side elevation of the wrench, illustrating the movable jaw thereof, in section. Fig. 2 is an enlarged plan view of the locking member.

Referring to the drawings, 1 designates an immovable jaw of the improved wrench. This immovable jaw has integral therewith a shank 2, one face of which is provided with serrations 8, as clearly shown; the lower end of this shank is provided with a handle *a*, which is partly broken away as shown in the drawings.

Mounted to have movement upon the shank, is the movable jaw 3, having a pair of straps 4 and 5, which surround the said shank, as clearly shown. Integral with the movable jaw, is a housing 5<sup>b</sup>, in which is mounted, a locking member 9, and a wedge-shaped member 6. The locking member is provided with serrations 9<sup>a</sup> which are adapted to engage the serrations 8 of the said shank, that is, when the locking member is forced upward as will be clearly understood. The locking member is provided with a lower inclined surface *b*, which coöperates with the inclined surface *c*, of the wedge-shaped member; by the coöperation of these inclined surfaces, the locking member is forced upward so as to engage the serrations of the shank and is also provided with an angle portion 10, against which the beveled portion *d*, of the member 6 abuts, that is, when it is moved toward the immovable jaw. When the member 6 is moved toward the immovable jaw, thereby causing the bevel *d* to contact with the portion 10, the said locking member will have a slight oscillation to free the serrations 9<sup>a</sup> from the serrations 8 of the shank, as will be clearly understood.

To cause the member 6 to be reciprocated, a screw 7 is threaded in connection therewith as shown in the drawings, and by the rotation of the said screw, the member 6 will be moved, for the reason that the said screw is swiveled as at *e*, in the wall of the said housing, so as to prevent longitudinal movement thereof.

Having thus described the invention, what is claimed as new and useful by the protection of Letters Patent, is:

A wrench having a rigid jaw and a shank portion thereof having serrations upon one of its faces, a movable jaw mounted upon said shank, said movable jaw having a housing, a locking member located therein, said locking member having an under inclined surface and an angled end portion, said locking member having serrations to engage serrations of the shank, a screw-operated wedge-shaped member having its upper face oppositely inclined, one of the inclinations of the wedge shaped member designed to engage the inclined surface of the locking member while the other inclination is adapted to engage the angled end portion so as to oscillate the locking member, as specified.

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

ROBERT O. DANIEL.

Witnesses:

A. B. HAWORTH,  
J. A. DANIEL.