No. 665,031. Patented Jan. 1, 1901.

A. PAULSON.

WRENCH.

(Application filed June 14, 1900.)

(No Model.)

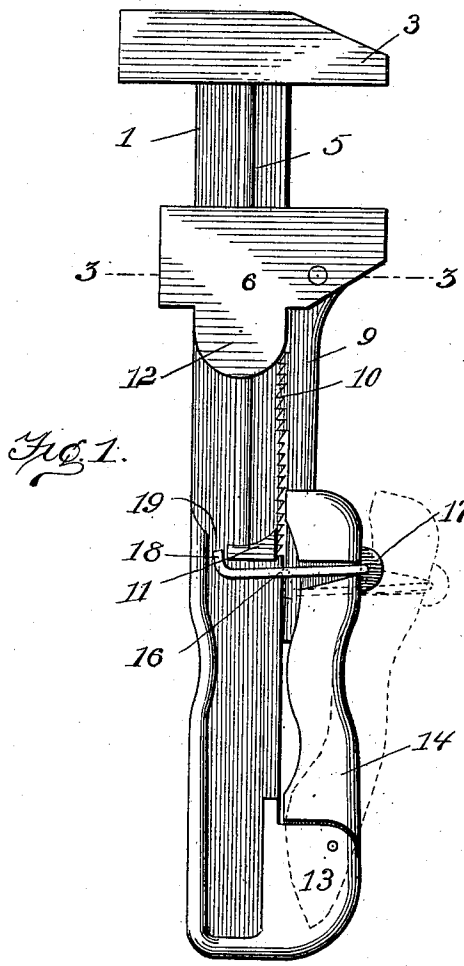


Fig. 1.

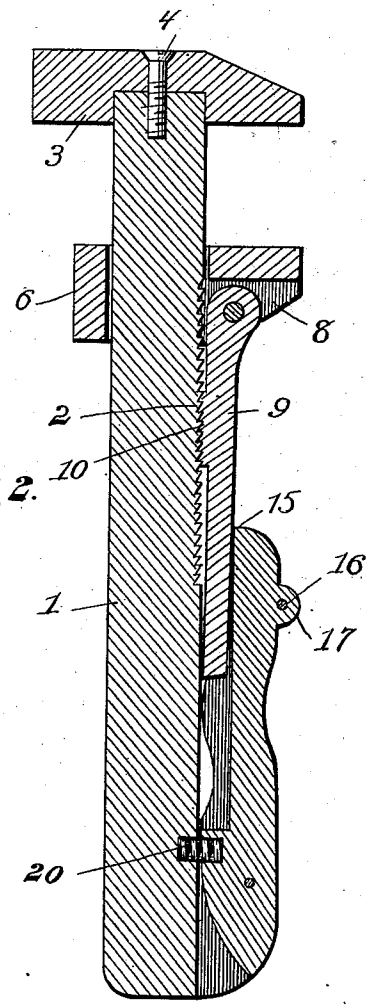
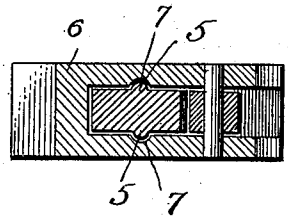


Fig. 2.

Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

AUGUST PAULSON, OF SISSETON AGENCY, SOUTH DAKOTA, ASSIGNOR OF ONE-HALF TO JOHN ROBINSON, OF SAME PLACE.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 665,031, dated January 1, 1901.

Application filed June 14, 1900. Serial No. 20,336. (No model.)

To all whom it may concern:

Be it known that I, AUGUST PAULSON, a citizen of the United States, residing at Sisseton Agency, in the county of Roberts and State of South Dakota, have invented new and useful Improvements in Wrenches, of which the following is a specification.

My invention relates to monkey-wrenches, the object being to provide improved means for locking the movable jaw of a wrench in its adjusted position.

The construction of the improvement will be fully described hereinafter in connection with the accompanying drawings, which form a part of this specification, and its novel features will be defined in the appended claims.

In the drawings, Figure 1 is a side elevation of a wrench embodying the invention. Fig. 2 is a central longitudinal section of the same, and Fig. 3 is a transverse section on the line 3 3 of Fig. 1.

The reference-numeral 1 designates the shank of the wrench, formed along its inner face with ratchet-teeth 2 and having the fixed jaw 3 secured to its upper end by a screw 4. The shank is formed on opposite sides with central longitudinal ribs 5 to guide the movement of the movable jaw 6, the latter being provided with internal grooves 7 to receive said ribs.

The movable jaw 6 is formed with a recess 8, within which is pivotally secured a lever 9, provided with a toothed projection 10, adapted to engage the teeth of the shank 1, as clearly illustrated in Figs. 1 and 2.

At the lower end of each of the ribs 5 is a curved stop or shoulder 11, adapted to receive the contact of ears 12, depending from the movable jaw 6 to limit the downward movement of said jaw.

The lower end of the shank is provided with a pair of laterally-projecting ears 13, between which is pivotally secured a lever 14, recessed or grooved on its inner surface to fit over the lever 9 and adapted to bear at its upper end 15 against said lever 9 to hold the latter in engagement with the shank.

16 designates a bail extending through a lug 17, projecting from the lever and having its ends 18 turned upward to engage the stops 11, and thus lock the lever 14 in clamping engagement with the lever 9, the stops being slotted at the point 19 to accommodate the ends of the bail.

A coil-spring 20 is interposed between the shank and the lever 14, the ends of the spring being held in sockets formed in the shank and lever. The function of this spring is to throw the clamping-lever 14 outward away from the shank after the bail is released.

The utility and operation of the device constructed as thus described will be readily understood. The movable jaw 6 is readily adjusted to the desired position, after which the teeth of the lever 9 are brought into engagement with the teeth of the shank, and the clamping-lever is pressed against the lever 9 and locked by the engagement of the ends 18 of the bail with the stops 11.

I claim—

1. A wrench comprising a shank formed with teeth along one edge; a fixed jaw; a movable jaw on the shank; a toothed lever pivotally secured to said movable jaw; stops projecting from opposite sides of the shank to limit the downward movement of the movable jaw; a clamping-lever pivotally secured to the lower end of the shank; and a device for locking the clamping-lever in engagement with the toothed lever, consisting of a bail secured to said clamping-lever and having upturned ends adapted to engage said stops.

2. A wrench comprising a shank formed with teeth along one edge; and with longitudinal ribs terminating in curved stops; a jaw fixed to said shank; a jaw movable on said shank; and having depending ears; a lever pivotally secured to said movable jaw and having teeth adapted to engage the teeth of the shank; a clamping-lever pivotally secured to the lower end of the shank; a locking-bail carried by said clamping-lever and having its ends turned upward to engage said stops; and a spring interposed between the shank and clamping-lever.

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

AUGUST PAULSON.

Witnesses:
W. H. VOLLMER,
JAMES ROSS.