No. 766,939. PATENTED AUG. 9, 1904.

J. DOYLE.

MONKEY WRENCH.

APPLICATION FILED DEC. 16, 1903.

NO MODEL.

Fig. 1.

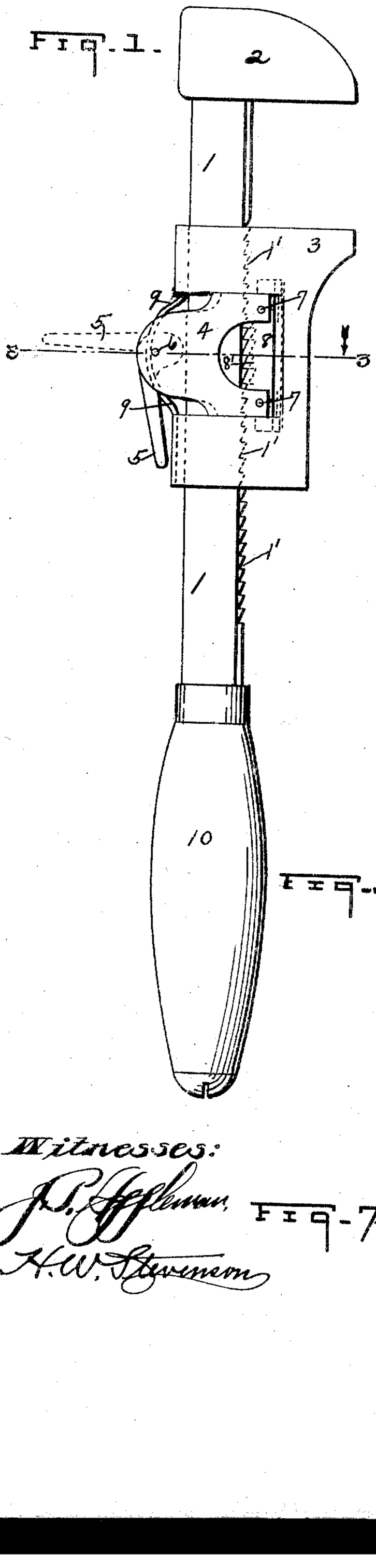


Fig. 2.

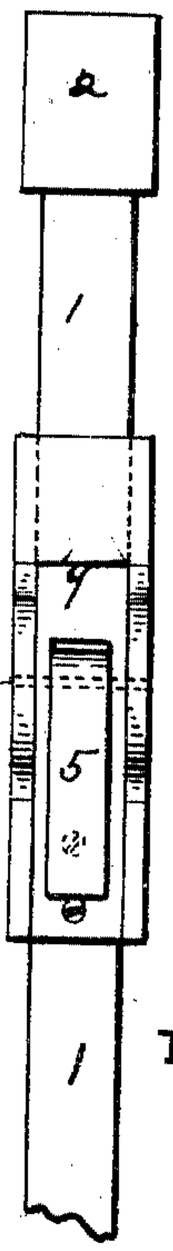


Fig. 3.

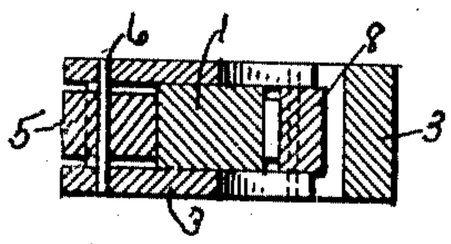


Fig. 4.

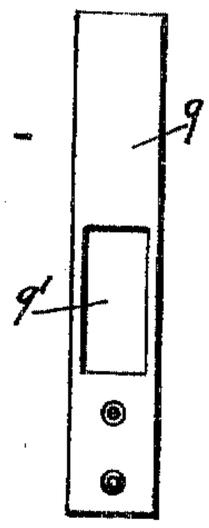


Fig. 5.

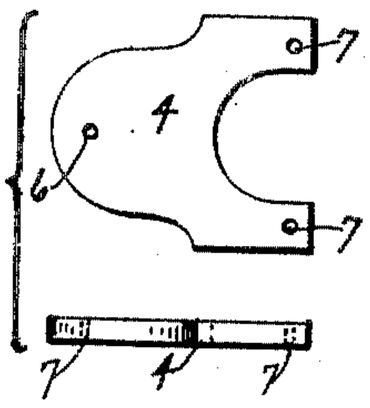


Fig. 6.

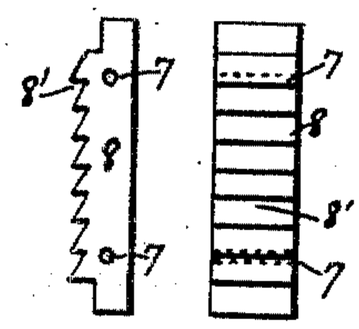
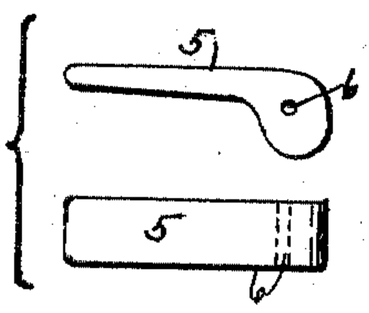


Fig. 7.



Witnesses:
J. P. Stephenson,
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Inventor
James Doyle.
By J. P. Stevenson.
Attorney.

No. 766,939. Patented August 9, 1904.

UNITED STATES PATENT OFFICE.

JAMES DOYLE, OF CANONSBURG, PENNSYLVANIA.

MONKEY-WRENCH.

SPECIFICATION forming part of Letters Patent No. 766,939, dated August 9, 1904.

Application filed December 16, 1903. Serial No. 185,349. (No model.)

To all whom it may concern:

Be it known that I, JAMES DOYLE, a citizen of the United States, residing at Canonsburg, in the county of Washington and State of Pennsylvania, have invented certain new and useful Improvements in Monkey-Wrenches, of which the following is a specification.

My invention relates to a new and novel construction of a monkey-wrench, the object of my invention being a wrench that can be readily operated and adjusted with one hand by controlling the movable jaw in a manner that will be more fully described in detail hereinafter, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a full-length side view of my improved wrench. Fig. 2 is a back or rear view. Fig. 3 is a sectional view taken on the line 3 3 of Fig. 1. Fig. 4 is a view of the cam-operated spring. Fig. 5 is a side view of one of the standards. Fig. 6 is a side and face view of the movable ratchet. Fig. 7 is a side and top view of the cam-lever.

In the drawings the numerals of reference designate like parts throughout the several views, in which—

The numeral 1 is the shank of the wrench.

2 is the fixed jaw.

3 is the movable or adjustable jaw, the construction of this jaw 3 being the improved part that is contained in my invention. Between the upper and lower parts of the jaw 3 is a square cut-out in which the operative parts of the wrench are seated and work. These parts consist of the standards 4, the cam-lever 5, the spring 9, and movable ratchet 8, with connecting-bolts 6 and 7.

10 represents the handle of the wrench.

The cam-lever 5 is held in position by the bolt 6, which passes underneath the spring 9 and unites the two standards at each side of the wrench.

The movable ratchet 8 is held in position by the bolts 7, which also unite the two standards 4.

1′ represents the ratchets or teeth in the shank 1. These interlock with the ratchet-teeth 8′ of the part 8.

9′ is an opening in the spring 9 to admit the cam-lever 5. This spring 9 is secured to the movable jaw 3 at the lower side of the same.

The cam-lever 5 when forced down draws on the center of the spring 9 and at the same time pulls the ratchet 8 into contact with the teeth 1′ on the shank 1, thus holding the jaw 3 in a fixed position, as desired. By throwing up the cam-lever 5 this contact of the two ratchets is released by the spring 9, when the jaw 3 may be moved to any desired position on the shank 1 and again locked by drawing down the lever 5.

As will be readily seen by reference to the drawings, my wrench may be operated with one hand and the distance between the stationary jaw 2 and the movable jaw 3 be adjusted and regulated by the foregoing operation.

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

In a device of the character described, the combination with a shank having a fixed jaw at one end thereof, a movable jaw having a central opening therein and arms surrounding the shank of the wrench, a movable ratchet mounted within the central portion of the movable jaw, a pair of supporting members slidably mounted at either side of the shank within the central opening of the movable jaw having forwardly-projecting arms provided with apertures therein, means adapted to pass through said apertures and the movable ratchet for securing the latter between the arms, and rearwardly-extending rounded projections adapted to receive a fastening means therethrough, a cam-lever pivotally carried between said projections, adapted to actuate the movable ratchet, and spring means mounted adjacent the cam-lever adapted to force the movable ratchet from engagement with the shank, substantially as described.

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

JAMES DOYLE.

Witnesses:

JOHN D. CUSHNIE,

JOHN J. MILLER.