

(No Model.)

J. H. HIMES.
WRENCH.

No. 532,061.

Patented Jan. 8, 1895.

Fig. 1.

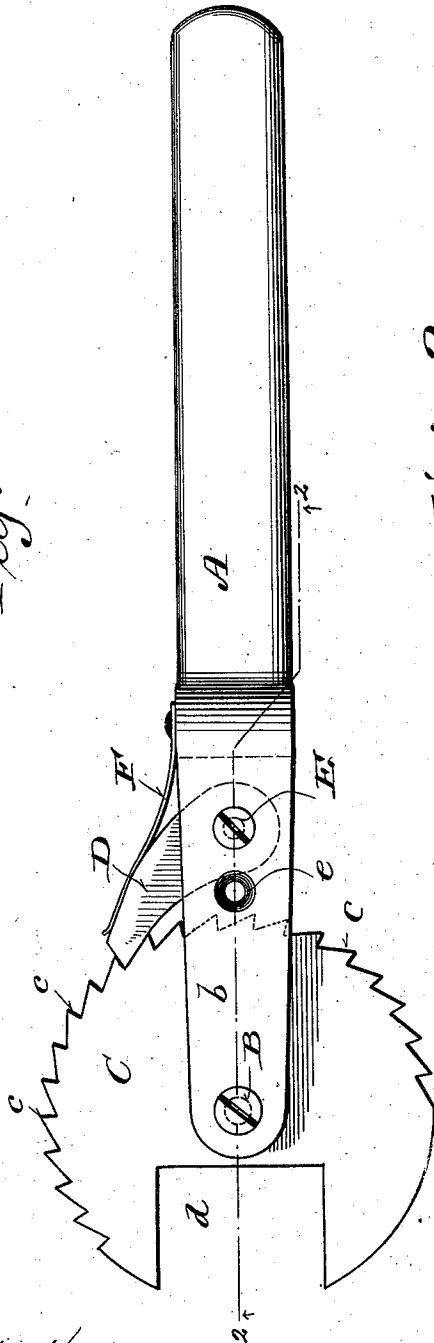
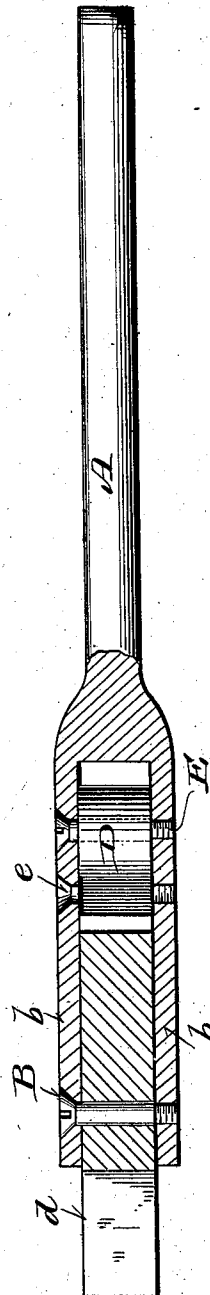


Fig. 2.



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SPECIFICATION forming part of Letters Patent No. 532,061, dated January 8, 1895.

Application filed February 23, 1894. Serial No. 501,088. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. HIMES, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Wrenches; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple, economical wrench especially designed for work in limited space; and it consists in certain peculiarities of construction and combination of parts hereinafter specified with reference to the accompanying drawings and subsequently claimed.

In the drawings, Figure 1 represents a side elevation of a wrench constructed according to my invention, and Fig. 2, a plan view of the same partly in horizontal section on line 2—2 of the preceding figure.

Referring by letter to the drawings A represents a handle constituting part of my wrench, one end of this handle being forked. Loose on a pivot B connecting the branches of the handle is a disk C provided with peripheral ratchet-teeth *c* and an angular recess *d*, the latter being for the reception of a nut or bolt-head. A pawl D loose on a pivot E between the branches of the handle engages with the ratchet portion of the disk, and a flat-spring F made fast at one end to said handle bears against the pawl to hold the latter in engagement with said disk.

Each of the disk and pawl pivots is preferably provided with a slotted and tapered head

that engages a countersunk opening in one of the handle branches, and the opposite end of said pivot is preferably screw-threaded to engage a tapped opening in the other of said handle-branches.

It is intended that the disk herein shown shall be interchangeable with others having recesses of greater or less area, and by means of supplemental openings *e* in the handle-branches, provision is made for moving the pivot E farther forward to thereby bring the pawl D into engagement with the ratchet portion of a disk having considerably less diameter than the one herein shown.

By means of the above wrench, bolt-heads or nuts may be turned in places where an ordinary wrench cannot be utilized for lack of room.

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

A wrench comprising a handle, an interchangeable angularly recessed and ratchet-toothed disk pivotally connected to the handle, an adjustable pivot, and a pawl on this pivot for engagement with the ratchet portion of the disk, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

JOHN H. HIMES.

Witnesses:

N. E. OLIPHANT,
HENRY DANKERT.