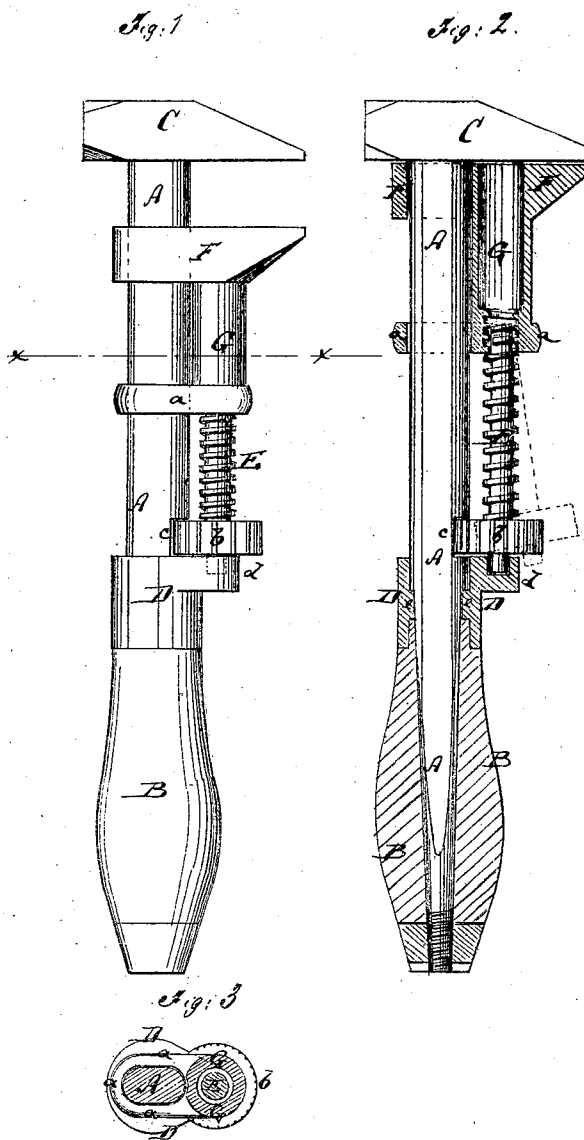


J. Gates' Monkey Wrench.

No. 119,596.

Patented Oct. 3, 1871.



Witnesses:
Cas. Nida
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Inventor:
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 Attorneys.

UNITED STATES PATENT OFFICE.

JOHN GATES, OF PORTLAND, OREGON.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. 119,596, dated October 3, 1871.

To all whom it may concern:

Be it known that I, JOHN GATES, of Portland, in the county of Multnomah and State of Oregon, have invented a new and Improved Monkey-Wrench; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a side view of my improved monkey-wrench. Fig. 2 is a longitudinal section of the same. Fig. 3 is a transverse section of the same taken on the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention has for its object to improve the construction of monkey-wrenches in its several details, so as to make the same stronger and more reliable without an additional outlay of labor or material than the devices of similar kind now in use. My invention consists in improving monkey-wrenches, as hereinafter fully described and subsequently pointed out in the claim.

A in the drawing represents the main bar or shank of the wrench, fitted into the handle B and holding the upper jaw C. D is the ferrule on

the handle; E, the adjusting-screw; F, the movable jaw; G, the tubular shank of the same; and *a*, the strap on the latter, embracing the bar A.

The screw-head *b* fits partly into a notch or recess, *c*, which is cut into the bar A, as shown, the lower end of the screw resting on an ear, *d*, of the ferrule. The notch gives full support to the screw-head and holds the same clear of the ferrule. The liability of the wrench becoming loose between the screw-head and ferrule is thus obviated. The upper end of the screw E is somewhat flattened on opposite sides, so that it can be applied to the tube G in a somewhat inclined position before the screw-head is sprung into the recess *c*, as indicated by dotted lines in Fig. 2.

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

The construction of the adjusting-screw of a movable wrench-jaw with two sections cut therefrom on opposite sides of the end, as and for the purpose specified.

The above specification of my invention signed by me this 27th day of December, 1870.

JOHN GATES.

Witnesses:

SAM. A. MORELAND,
E. J. NORTHRUP.