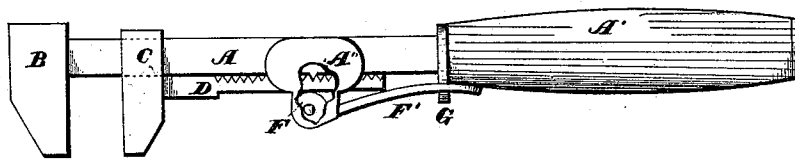


L. M. JOHNSON.

WRENCHES.

No. 179,456.

Patented July 4, 1876.



WITNESSES

*Ed. A. Nottingham*

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INVENTOR

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# UNITED STATES PATENT OFFICE.

LUTHER M. JOHNSON, OF LA GRANGE, OHIO, ASSIGNOR OF ONE-HALF HIS  
RIGHT TO GEORGE D. JOHNSON, OF SAME PLACE.

## IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **179,456**, dated July 4, 1876; application filed  
May 18, 1876.

*To all whom it may concern:*

Be it known that I, LUTHER M. JOHNSON, of La Grange, in the county of Lorain and State of Ohio, have invented certain new and useful Improvements in Monkey-Wrenches; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in monkey-wrenches.

In the drawing is shown an isometric view of a wrench embodying my invention, with parts removed, so as to show the construction and operation of the cam serrated clamp.

My invention consists of the following parts and combinations, as hereinafter set forth and claimed, wherein—

A is the main arm, one end of which is provided with the handle A', and to the other end of which is securely attached the stationary jaw B. C is the movable jaw, having a rear projection enveloping the arm A, serving the purposes of a guide and support. The movable jaw C is provided with a ratchet-arm, D, whose serrations are made to face downward against the arm A. At any suitable position upon the arm A is placed a single cog or tooth, A'', which engages with the

ratchet-bar D. E is any suitable frame or support, wherein is journaled the cam F, operated by an arm or lever, F'. G is a latch for securing the cam-lever F' in its locked position.

Operation: By lifting the cam-lever F' the movable jaw C is free to be moved to any desired position, so as to accommodate nuts of different sizes. When suitably adjusted along the arm A it is firmly secured by bringing down and latching the cam-lever F', by which operation the tooth A'' is brought into bearing with the serrated arm of the movable jaw.

What I claim is—

In a monkey-wrench, the combination, with the fixed arm A, of the movable jaw C, having the rack-bar D rigidly secured thereto, and a cam-headed lever journaled in a separate support, and a catch-bar, G, at the end of the handle nearest the jaws, as set forth, whereby the cam, resting on the back of the rack-bar, operates to lock the movable jaw at any desired point, without interference with the grasping of the handle, substantially as and for the purpose described.

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

LUTHER M. JOHNSON.

Witnesses:

E. G. JOHNSON,  
A. J. BLANCHARD.