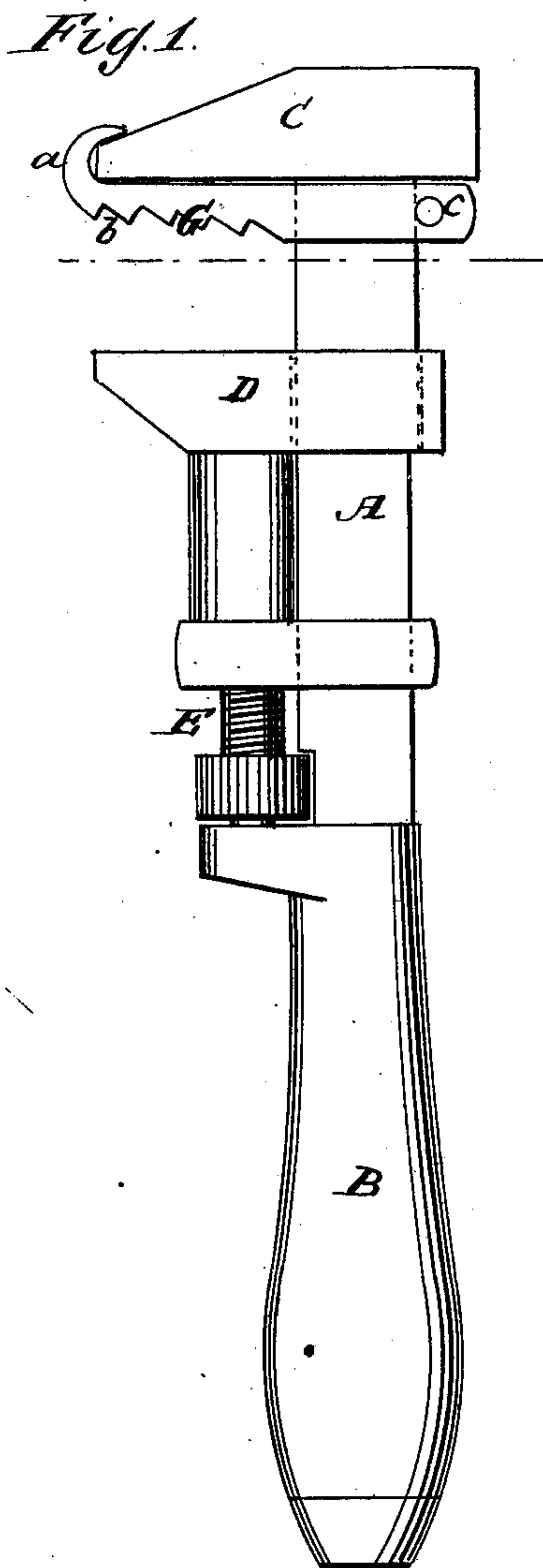


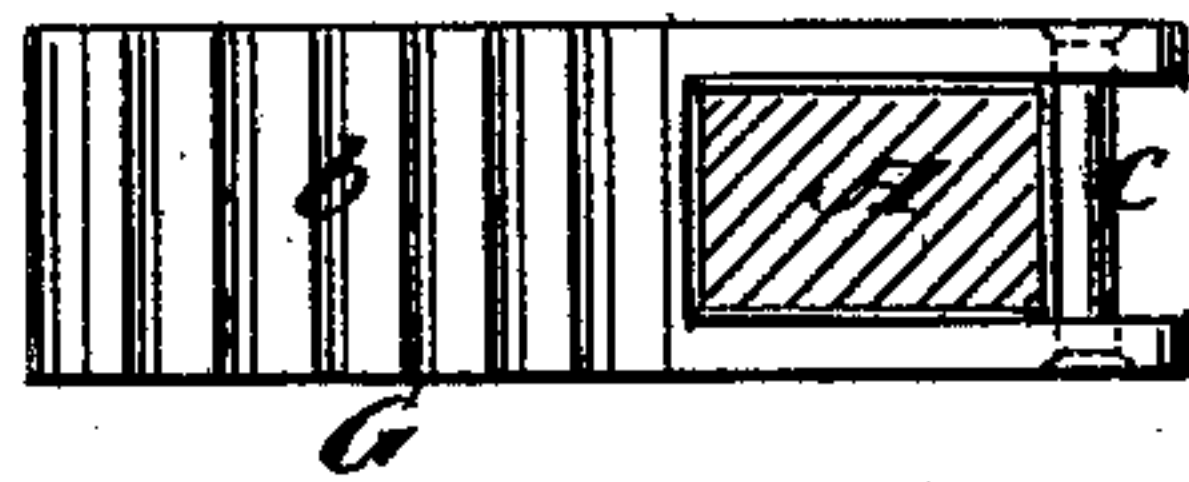
J. EISEMAN.  
WRENCHES.

No. 195,266.

Patented Sept. 18, 1877.



*Fig. 2.*



WITNESSES:

*E. Wolff*  
*J. H. Scarborough*

INVENTOR:

*J. Eisman*  
BY *Mumford*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JACOB EISEMAN, OF GALENA, ILLINOIS.

## IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **195,266**, dated September 18, 1877; application filed August 24, 1877.

*To all whom it may concern:*

Be it known that I, JACOB EISEMAN, of Galena, in the county of Jo Daviess and State of Illinois, have invented a new and Improved Wrench, of which the following is a specification:

This invention relates to an improvement on monkey-wrenches; and the nature of my invention consists in the combination of a detachable serrated jaw with the fixed jaw of a monkey-wrench, whereby the common nut-wrench can be made to serve as a pipe-wrench, as will be understood from the following description.

In the annexed drawing, Figure 1 is a side view of the improved wrench. Fig. 2 is a cross-section, showing the face of the serrated jaw.

Similar letters of reference indicate corresponding parts.

The letter A designates the shank of the monkey-wrench, on one end of which is a handle, B, and on the other end is permanently secured a jaw, C, having a flat face.

The jaw D is looped on the shank A, and is caused to slide thereon by turning a screw, E. G designates a steel jaw-face, which is

constructed with a hook, *a*, on one end, and with a beveled and serrated surface, the teeth *b* of which are pitched toward the shank A. This serrated jaw G is bifurcated and secured on the shank A against the face of the fixed jaw C by means of a pin, *c*.

Fig. 1 shows the position of the movable jaw when it is confined in its place on the wrench, wherein it will be seen that the hook *a* passes over the nose of the jaw C, and the pin *c* passes through the ends of the jaw back of the shank. This affords a very strong attachment, and enables me to convert a common monkey-wrench into a pipe-wrench.

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

As a new article of manufacture, the removable serrated jaw G, having one end bifurcated, and a hook, *a*, on the opposite end, substantially as described.

JACOB EISEMAN.

Witnesses:

WM. S. METZGER,  
HENRY BERGMAN.