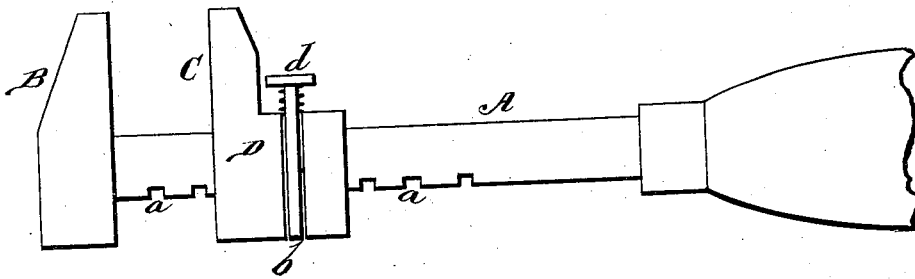


S. SCHWERDT.  
Wrench.

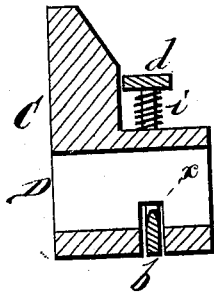
No. 200,348.

Patented Feb. 12, 1878.

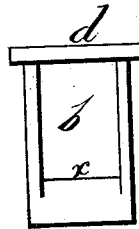
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES

*Phel Ervitt*  
*Geo. J. Sheehy*

INVENTOR . . .

*Solomon Schwerdt.*

*Cyrenus Smith & Co.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

SOLOMON SCHWERDT, OF ROSEVILLE, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO J. W. PECK, OF SAME PLACE.

## IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **200,345**, dated February 12, 1878; application filed December 29, 1877.

*To all whom it may concern:*

Be it known that I, SOLOMON SCHWERDT, of Roseville, in the county of Warren and State of Illinois, have invented a new and valuable Improvement in Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of my wrench. Fig. 2 is a vertical sectional detail, and Fig. 3 is a detail view thereof.

The nature of my invention consists in the construction and arrangement of a monkey-wrench, as will be hereinafter more fully set forth.

The annexed drawing, to which reference is made, fully illustrates my invention.

A represents the stem or bar of the wrench, with head or jaw B on the end thereof. C is the sliding jaw, which is formed with a hub, D, through which the bar A passes. On the under side of the bar A is formed a series of notches, *a a*, made as close together as desired, and of any suitable depth and width, said notches running entirely across the surface of the bar.

In the sides of the hub D are made grooves for the reception of the arms of a stirrup, *b*, placed therein, the bottom or cross bar of the stirrup passing through a mortise in the bot-

tom of the hub. The upper surface of said bottom bar of the stirrup forms a series of teeth—one or more—to take into the notches *a a* on the bar A, and thus hold the jaw C stationary at any point at which it may be set. The stirrup *b* is drawn up to accomplish this purpose by means of a coiled or other spring, *i*, placed under a cross-bar, *d*, secured to and connecting the arms of the stirrup above the hub D, as shown, the whole thus forming a spring-catch, for holding the jaw C in place on the bar A.

In operation, it is only necessary to press down with the thumb on the cross-bar *d*, and the jaw can easily be moved out or in, as required, while as soon as the pressure is removed the spring *i* will cause the stirrup to engage with the notched bar and hold the jaw in place.

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the bar A, having jaw B and series of notches *a*, the jaw C, with grooved and mortised hub D, the toothed stirrup *b*, with cross-bar *d*, and the spring *i*, all constructed substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SOLOMON SCHWERDT.

Witnesses:

J. W. PECK,  
F. W. HARROD.