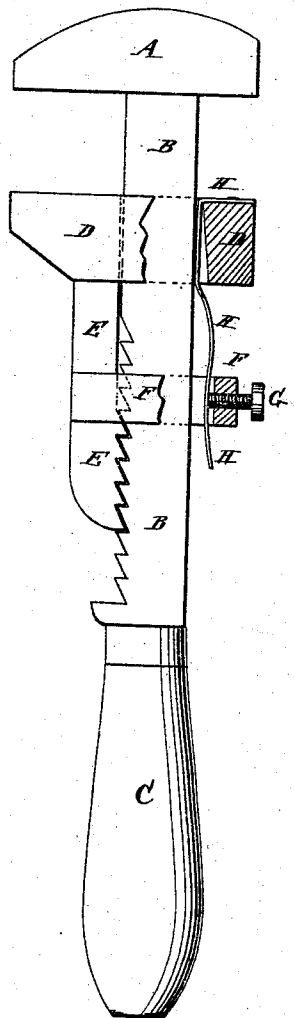


A. M. MORTIMER
WRENCHES.

No. 182,591.

Patented Sept. 26, 1876.



WITNESSES:

A. W. Almqvist
John Goethals

INVENTOR:

A. M. Mortimer
BY *Mumtlo*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

ANDREW M. MORTIMER, OF SALT LAKE CITY, UTAH TERRITORY.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. **182,591**, dated September 26, 1876; application filed August 14, 1876.

To all whom it may concern :

Be it known that I, ANDREW M. MORTIMER, of Salt Lake City, in the county of Salt Lake and Territory of Utah, have invented a new and useful Improvement in Wrenches, of which the following is a specification :

The figure is a side view of my improved wrench, part being broken away to show the construction.

The object of this invention is to furnish an improved wrench, which shall be simple in construction, easily and quickly adjusted, strong and firm in use, and not liable to get out of order.

The invention will first be described in connection with the drawing, and then pointed out in claim.

A is a stationary jaw, which is attached to the outer end of the shank B. To the other end of the shank B is attached the handle C. D is the movable jaw which slides upon the shank B, and to which is rigidly attached a bar, E, in such a position as to be opposite the edge of the said shank B. Upon the adjacent edges of the shank B and bar E are formed ratchet-teeth, which engage with each other to hold the movable jaw D in place while the wrench is being used. To the bar E is attached the ends of a loop, F, through which the shank B passes, and through the bend of which passes the set-screw G. The forward end of the set-screw G rests against the free end of the spring H, which is passed

through the loop F at the rear edge of the shank B. The spring H passes through the hole in the movable jaw D, and its end is secured to the forward side of the heel of said jaw. The hole through the jaw D is slightly tapered, as shown in the figure, to allow the free end of the bar E to be raised enough to free its teeth from the teeth of the shank B, and allow the movable jaw D to be adjusted as required. When the wrench is being used the strain upon the jaws A D holds the teeth of the bar E in gear with the teeth of the shank B, the spring H keeping the movable jaw D from getting out of place while shifting the wrench upon the work. The tension of the spring H is regulated by the set-screw G, and is designed to be such as to hold the bar E with sufficient force to keep the said bar E in place, and at the same time allow it to be raised out of gear with the shank B by taking hold of its free end with the thumb and finger.

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

A wrench whose spring H is passed through a loop, F, as well as a movable jaw, D, and secured at the end to the front of said jaw, as and for the purpose specified.

ANDREW M. MORTIMER.

Witnesses :

T. A. MORTIMER,
MORGAN REED.