(No Model.)

J. MOONEY.

SCREW CLAMP.

No. 378,896. Patented Mar. 6, 1888.

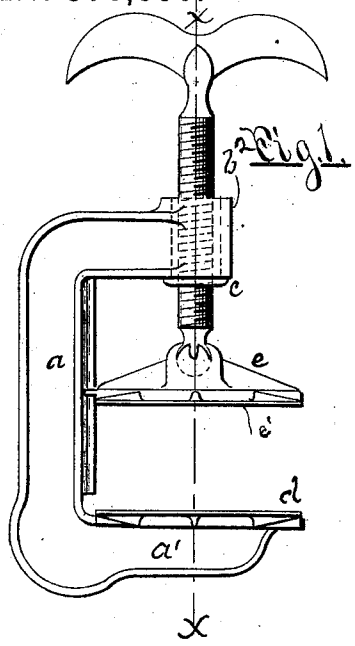


Fig. 1.

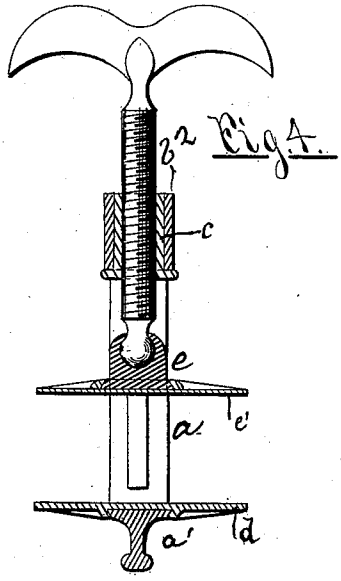


Fig. 4.

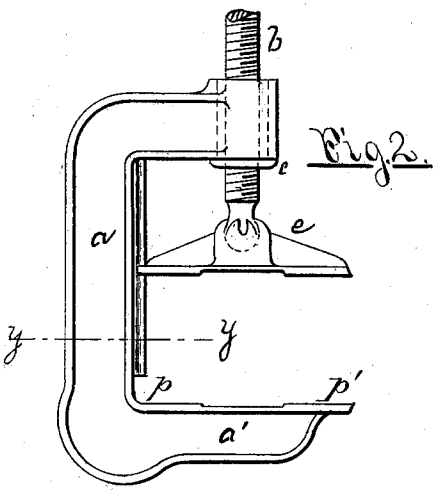


Fig. 2.

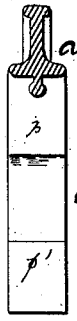


Fig. 3.

Witnesses.

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JOHN MOONEY, OF SYRACUSE, NEW YORK.

SCREW-CLAMP.

SPECIFICATION forming part of Letters Patent No. 378,896, dated March 6, 1888.

Application filed September 27, 1886. Serial No. 214,623. (No model.)

To all whom it may concern:

Be it known that I, JOHN MOONEY, of Syracuse, Onondaga county, in the State of New York, have invented certain new and useful Improvements in Screw-Clamps, of which the following is a description.

My improvements are for the purpose of holding firmly the article to be clamped, whether having parallel, irregular, or inclined surfaces in any direction, by means of a strong and cheap construction.

My implement is described as follows, referring to the accompanying drawings, in which Figure 1 is a side elevation with all the parts united; Fig. 2, a similar view with the bed and follower plates removed; Fig. 3, a sectional plan of the bed-rest on line *y y* of Fig. 2; Fig. 4, a vertical section on line *x x*, Fig. 1.

The several parts in the different figures are designated by like letters.

The frame of the clamp is of the usual form, consisting of the main bar *a*, with a projection at right angles at each end, forming the bed-rest and screw-holder, through the end of which latter a screw, *b*, runs parallel with the main bar *a*. Into this projection a thimble, *c*, is fitted, on which the female screw is formed to fit screw *b*, having a flange on the under side to resist the thrust of the screw *b*. By this arrangement the thimble *c* can readily be replaced when worn out, and the clamp quickly and cheaply repaired.

The bed-rest or projection *a'* has upon its inner face two elevations or bosses, *p p'*, raised above its surface, that form limited bearings at two points to afford a steady and even rest, upon which the article to be clamped bears when the bed-plate *d* is not in use. This bed-rest *a'* has a dovetail rib along its upper face, on which the bed-plate *d* slides. The main bar *a* has a T-shaped rib along its inner face, which guides the end of the follower-bar, that is grooved to loosely embrace it. This follower-bar is pivoted to the end of the screw *b* by a ball-and-socket joint, so as to assume different angles to adapt itself to the work to be clamped. This bar *e* is formed on its face similarly to the bed-rest *a'*, having a dovetail rib along its lower edge to receive the follower-plate *e'*, which is readily slid onto or off the bar *e* to suit the purpose for which it is desired.

The follower and bed plates are useful in wood-work and such articles as would be injured by the narrow rest and bar.

Having thus fully described my improved screw-clamp, what I claim therein as new is—

1. As an article of manufacture, a malleable cast-metal clamp, *a a'*, as herein described, formed of a single U-shaped casting having a stationary removable thimble, *c*, as set forth, in combination therewith, for the purposes described.

2. In a screw-clamp, as herein described, the combination of the follower-bar *e*, having a T-formed groove in one end thereof, with the main bar *a*, having a rib thereon, the counterpart in its cross-section of the groove on the follower-bar sliding thereon, by which the bar is held in position in the manner herein described.

3. In a screw-clamp formed of the frame *a a'*, as described, and the follower-bar *e*, the removable sliding follower-plate *e'*, constructed and combined as and for the purposes specified.

4. In the screw-clamp herein described, the combination of the sliding bed-plate *d* with the lower bar of the frame *a'*, constructed as herein described.

JOHN MOONEY.

Witnesses:
J. J. GREENOUGH,
P. F. DWYER.