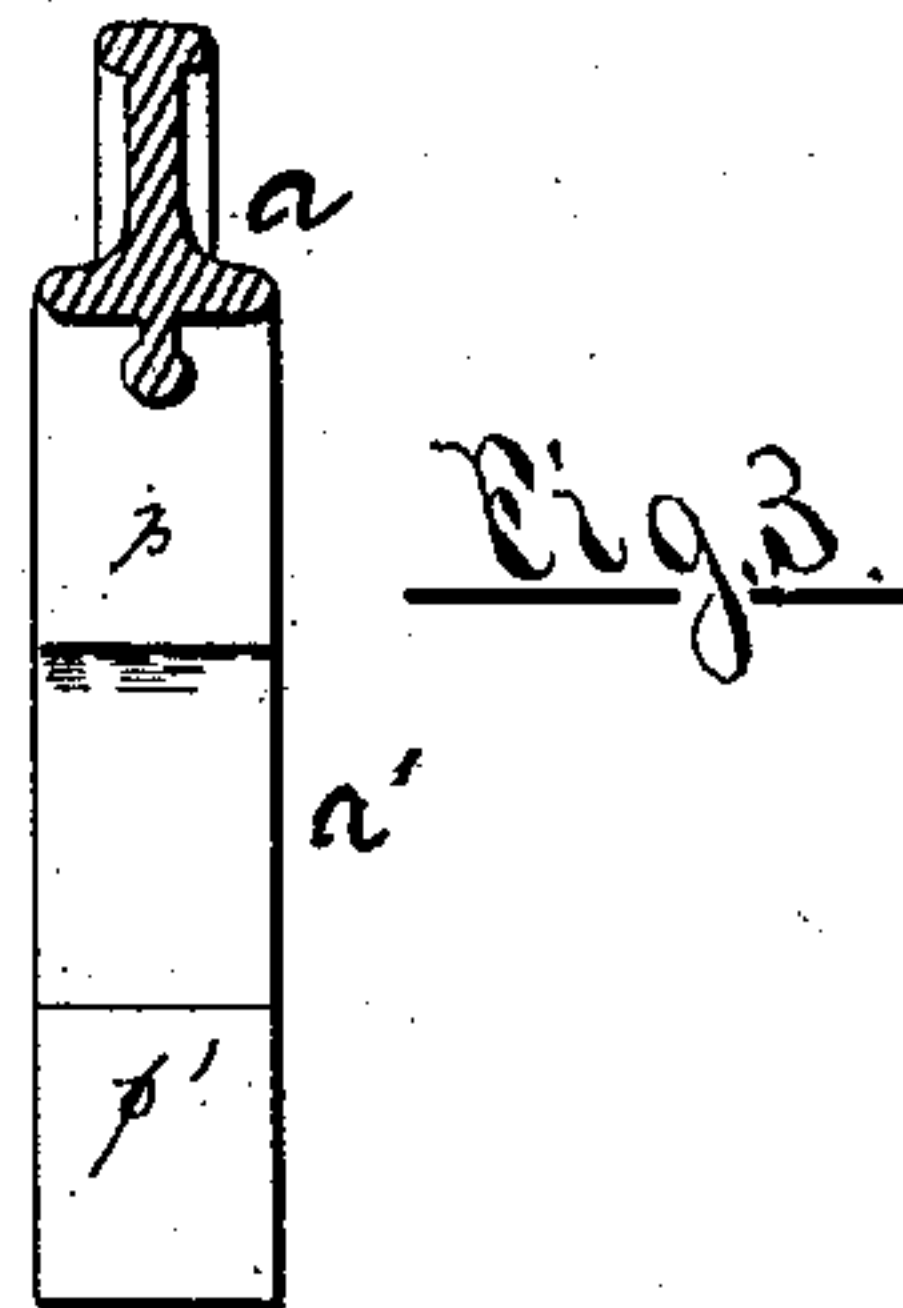
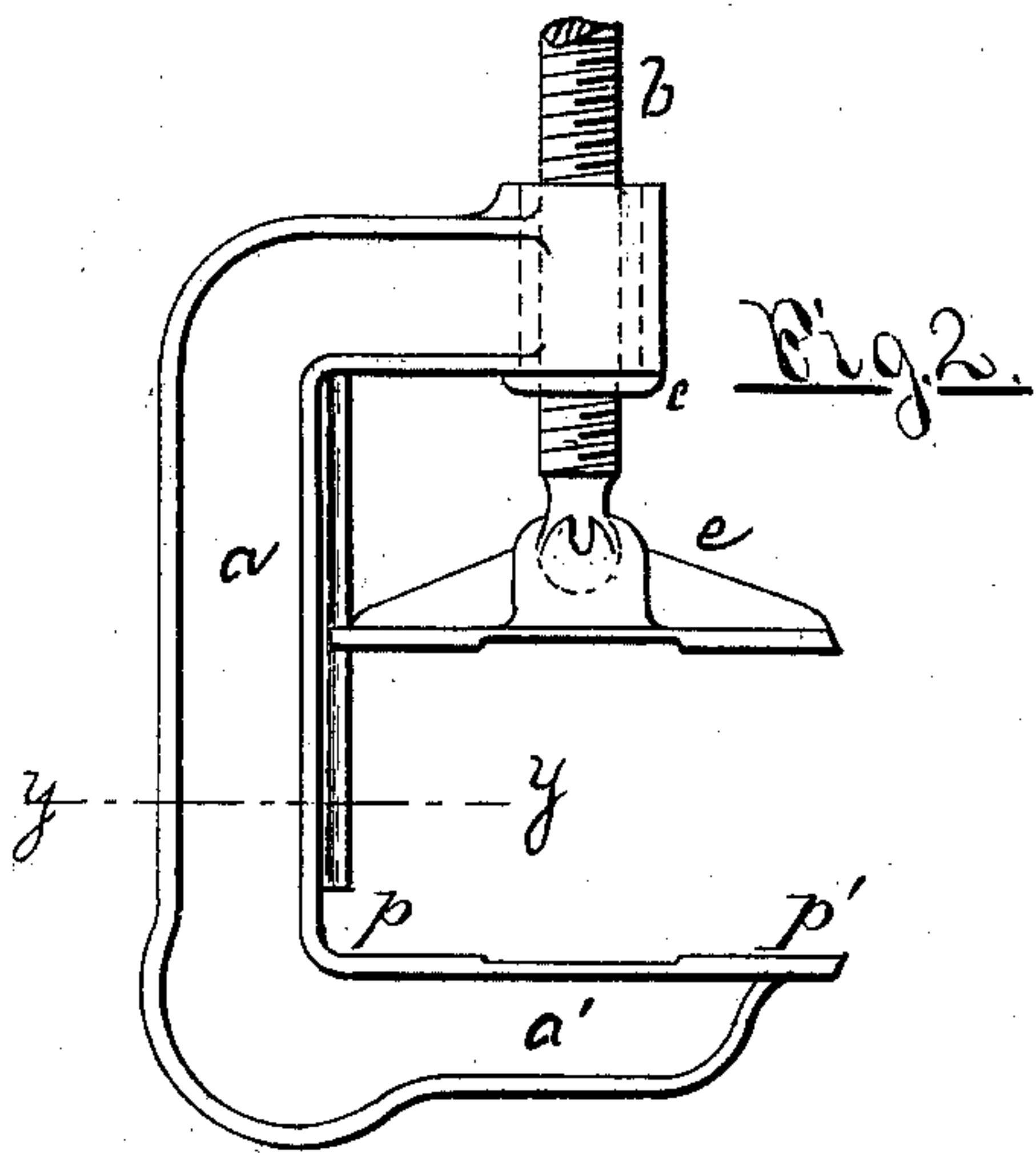
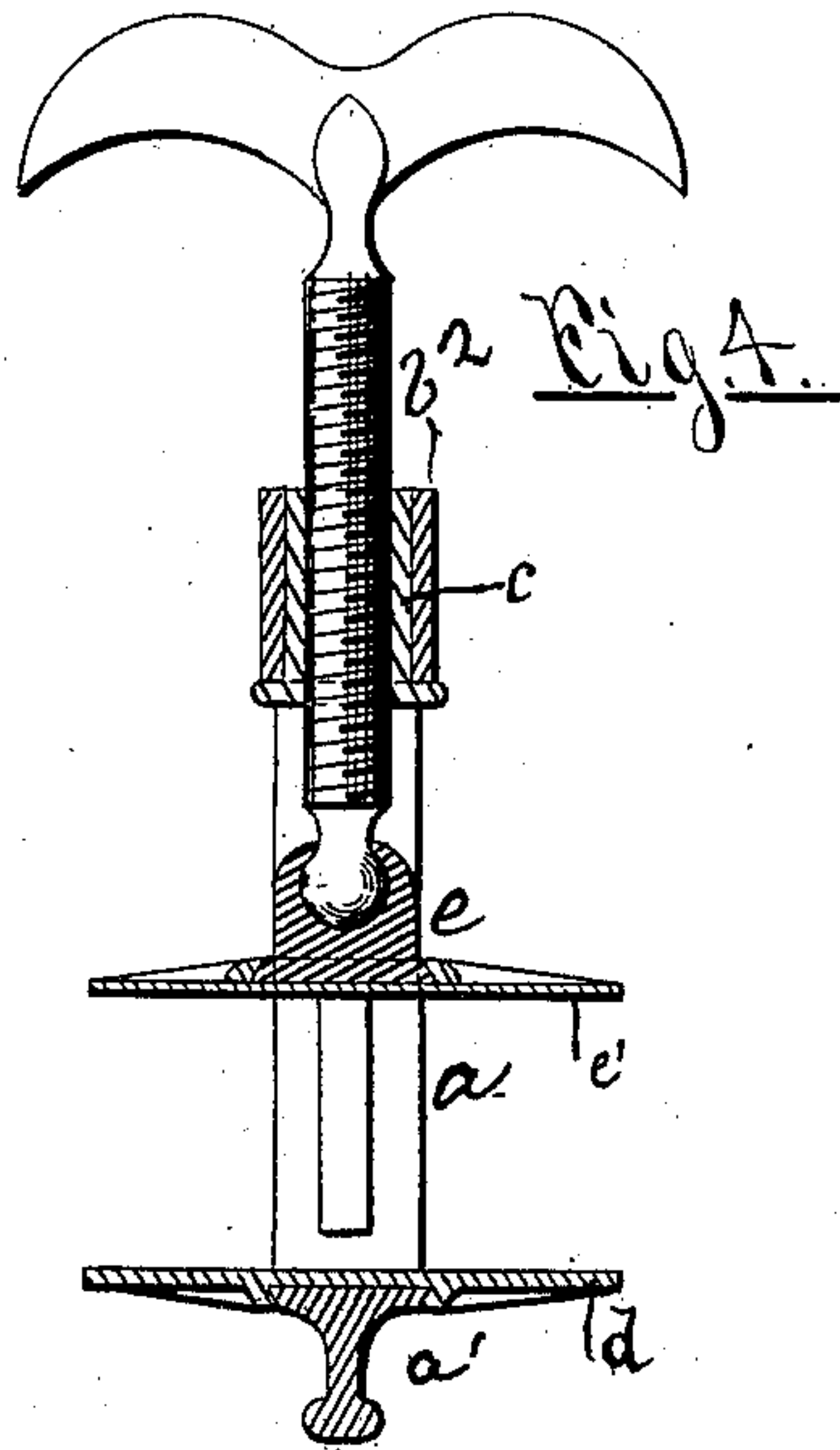
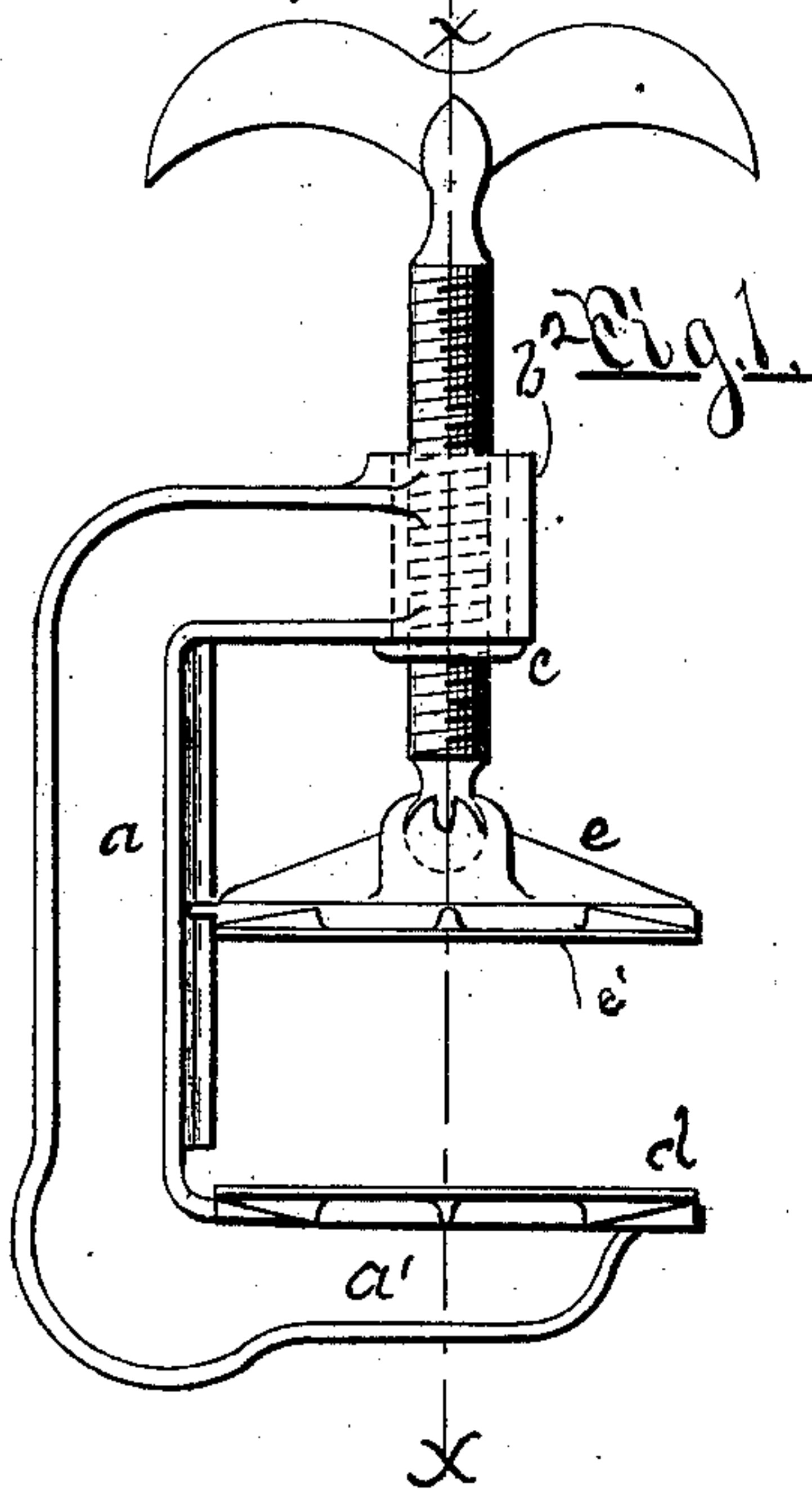


(No Model.)

J. MOONEY.  
SCREW CLAMP.

No. 378,896.

Patented Mar. 6, 1888.



Witnesses.

J. F. Dwyer.  
P. F. Dwyer.

Inventor.

John Mooney

# UNITED STATES PATENT OFFICE.

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  
5 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  
10 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  
15 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 *yy* of Fig. 2; Fig.  
4, a vertical section on line *xx*, Fig. 1.

The several parts in the different figures are  
20 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  
25 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  
30 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  
35 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  
40 *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  
45 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  
50 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  
55 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,  
60 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  
65 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.  
70

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.  
75

JOHN MOONEY.

Witnesses:

J. J. GREENOUGH,  
P. F. DWYER.