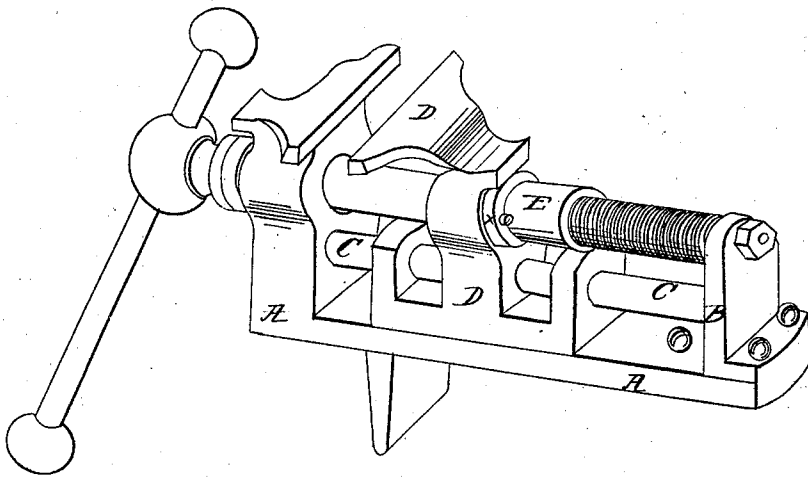


B. Hughes,

Vise.

N^o 11,067.

Patented June 13, 1854.



UNITED STATES PATENT OFFICE.

BERNARD HUGHES, OF ROCHESTER, NEW YORK.

WISE.

Specification of Letters Patent No. 11,067, dated June 13, 1854.

To all whom it may concern:

Be it known that I, BERNARD HUGHES, of the city of Rochester, county of Monroe, New York, have invented a new and Improved Mode of Constructing Wrought-Iron and other Parallel Vises.

The nature of my invention consists in the construction of wrought iron and other parallel vises with slide or guide rod to carry the movable inner jaw with its inverted T base. Also bracket pedestal and screw. All of which will be seen by reference to the accompanying drawings making a part of this specification.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

I construct my vises of wrought iron with a fixed or immovable outer jaw forged in conjunction with and of the same continuous piece of metal that constitutes the base or foot of the vise by which it is fastened to the bench as seen at Figure letter A, A. I then firmly attach to and on the back of the inner extremity of the foot or base a bracket pedestal for the support retention and movement of the inner end of vise screw, and also constituting a firm abutment for the slide rod as seen at letter B, into which and into the fixed outer jaw of the vise the slide and guide rod, letters C C, is secured, thus forming a brace or prop between the fixed jaw and pedestal that is equivalent (though light in itself) to a large solid body of metal as commonly used, and at the same time furnishes a guide to secure the paral-

lelism of the moving jaw marked D, D, in all directions, which jaw is of ordinary form in its upper or top feature, but its bottom part is formed in shape like the letter T inverted or with its top downward L as seen at letter D. This L form is bored through its middle and outer limbs to receive the rod, letters C, C, on which it slides with its long L surface resting or sliding on top of the base plate letter A, by which arrangement a perfect rectilinear movement is obtained and the parallelism of the jaws preserved. I attach my female screw or nut, letter E, with its flange to the back of the movable jaw D, D, by two simple screws α , through said flange, one of which is seen at α in figure.

The advantages of my improvement over parallel and other vises are that I am enabled by my arrangement to make them at a less price than any other wrought vises can be made and such are always preferable to cast vises. Another advantage is that they will bear more strain with less metal than any other vise and they are more easily repaired and work better altogether.

What I claim as my invention and desire to secure by Letters Patent is—

I claim the method of attaching and using the nut or female screw at the back of the movable jaw with simple screws through its flange.

BERNARD HUGHES.

Witnesses:

SAML. GRUBB,
JOHN THOMPSON, Jr.