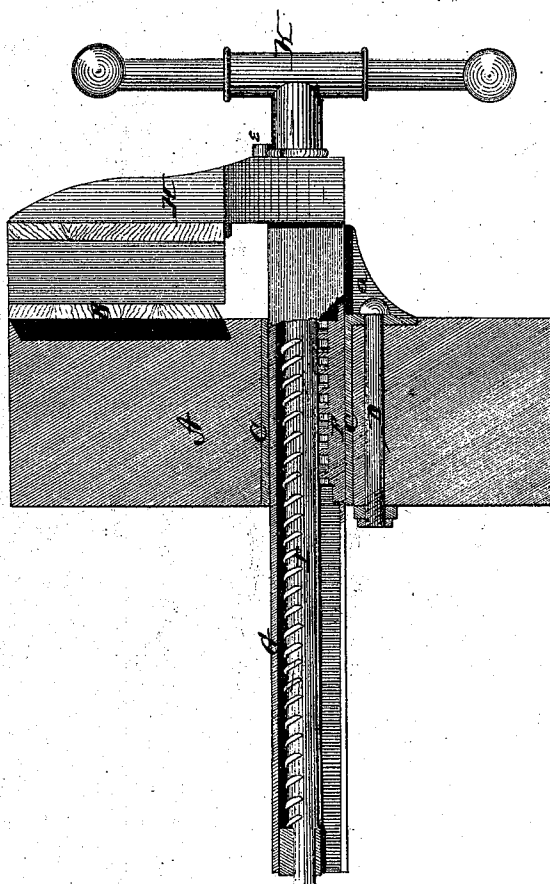


J. Simpson,

Vise.

No. 97,712.

Patented Dec. 7, 1869.



Witnesses
F. Lehmann
C. L. Evers

Inventor.
John Simpson
Alexander Mason
atw.

United States Patent Office.

JOHN SIMPSON, OF CLEVELAND, OHIO.

Letters Patent No. 97,712, dated December 7, 1869.

IMPROVEMENT IN VISES FOR WOOD-WORKING.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, JOHN SIMPSON, of Cleveland, in the county of Cuyahoga, and in the State of Ohio, have invented certain new and useful Improvements in Vises; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in inserting, within the bench-leg of a carpenter's bench, a square socket, provided on the inside with a screw-rack bar, and, in passing through said socket, a square casing, open on one side, to which casing the movable jaw of the vise is attached, said casing and movable jaw being operated by means of a screw, which has its threads cut off on one side.

In order to enable others skilled in the art to which my invention appertains, to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, which represent a side view of my invention, part in section.

A represents the bench-leg, to which is secured the lower stationary jaw B of the vise.

The leg A is slotted, and in the slot is placed a socket, C, of any suitable form, which is secured by a bolt, D, passing through an ear, *a*, on the socket, and through the leg, the ear *a* being extended outward on the bottom side, so as to form a support or bearing for a casing, E, which moves from side to side in the socket C.

In the bottom or lower side of the socket C is placed a screw-rack bar or vertical segment, F, of a

female screw, for a purpose that will be hereinafter described.

Through the socket is passed a casing, G, at one end of which is secured the jaw H.

This casing has only three sides, being open on the bottom.

Through the casing G is passed a screw-rod, I, which is provided with the usual socket and lever K, for turning the same, and the lever is provided also with collars, or other suitable means, to keep it in the casing, but still allow it to turn.

The screw-threads on one side of the screw I are cut off, so that when this side is turned against the screw-rack bar F, the screw and the casing can be readily moved out or in, without the trouble of turning the screw.

On the socket K is a notch, in which the pawl *e* on the jaw H fits, so as to prevent the screw I from unscrewing.

Having thus fully described my invention,

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

The construction and arrangement of the bench-leg A, jaw B, socket C, screw-rack bar F, screw I, jaw H, and socket and lever K, with notch and pawl *e*, all constructed as described, and operating substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 13th day of September, 1869.

JOHN SIMPSON.

Witnesses:

ALEXANDER CREASE,
W. C. MCFARLAND.