(No Model.)

A. S. BERRY.

SAW FILING VISE.

No. 456,373. Patented July 21, 1891.

Fig. 1.

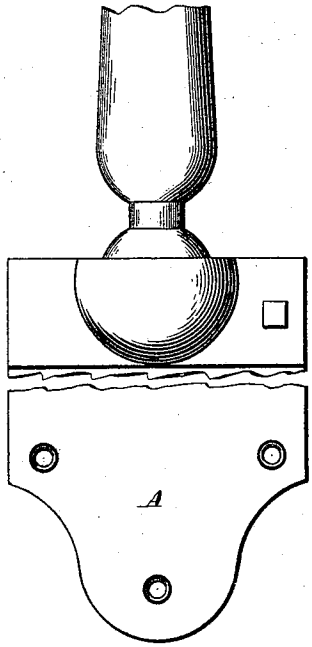


Fig. 2.

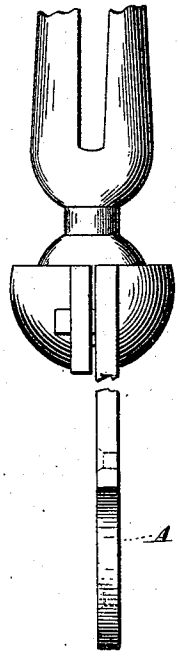


Fig. 3.

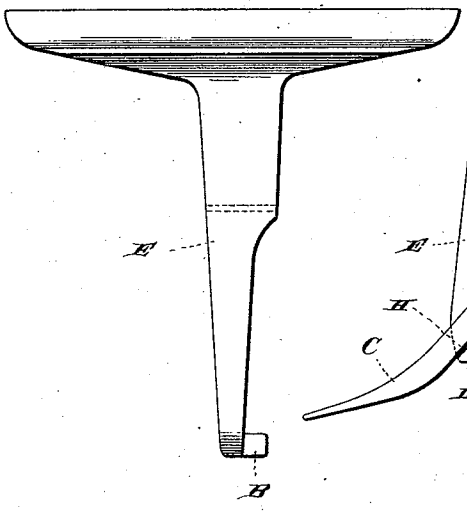


Fig. 5.

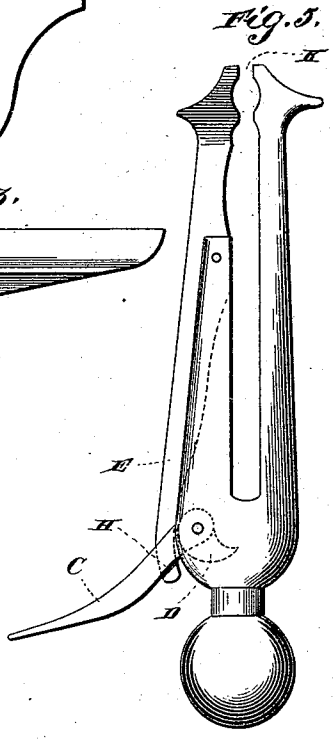
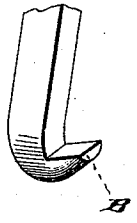


Fig. 4.



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UNITED STATES PATENT OFFICE.

ALONZO S. BERRY, OF ANN ARBOR, MICHIGAN.

SAW-FILING VISE.

SPECIFICATION forming part of Letters Patent No. 456,373, dated July 21, 1891.

Application filed August 19, 1890. Serial No. 362,460. (No model.)

To all whom it may concern:

Be it known that I, ALONZO S. BERRY, a citizen of the United States, residing at Ann Arbor, in the county of Washtenaw and State of Michigan, have invented a new and useful Saw-Filing Vise, of which the following is a specification.

My invention relates to improvements in saw-filing vises in which the saw to be operated upon is held between two jaws at the upper extremity of two standards or arms, the front arm of which is pivoted near the center and is operated upon at the lower extremity by a cam in connection with a lever in such a manner that when the lever is raised the cam operates on the arm and closes the jaws; and the objects of my improvements are, first, to provide a more suitable and convenient manner of attaching the vise firmly and quickly to a carpenter's bench or other place of use; second, to provide a more simple and convenient way of opening the jaws than is obtained by any device now in use. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 shows a front view of the base of the vise with a part of the standard. Fig. 2 shows a side view of the base and a part of the standard. Fig. 3 shows the front arm and jaw. Fig. 4 also shows an oblique view of the lower end of the front arm with the hook B. Fig. 5 shows a side view of the arms and jaws, showing the operation of the lever on the hook B in opening the jaws.

Similar letters refer to similar parts throughout the several views.

In Fig. 1, A is an attachment at the lower extremity of the base of the vise, projecting downward, of such thickness and shape as to be readily inserted and held firmly in a carpenter's or other bench vise. It is also provided with screw-holes whereby it may be attached by screws to any object desired. In Fig. 2 A also shows a side view of the same attachment.

Figs. 3 and 4 show the hook B, that operates to open the jaws, as illustrated in Fig. 5. When the lever C is carried up, the cam D operates on the under side of arm E and closes the jaws. When the lever is brought down, it strikes on the hook B, as at H, and thereby opens the jaws, as at K.

I am aware that prior to my invention saw-filing vises have been used consisting of parallel jaws at the extremity of arms, one of which is operated by a cam. I therefore do not claim such a combination, broadly; but

What I do claim as my invention is—

The improved saw-filing vise herein shown and described, consisting of the two jaws, the movable jaw having the hook B, the lever and cam for operating the jaws, and the attachment A, for the purposes set forth.

ALONZO S. BERRY.

Witnesses:
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WILLIAM F. PRATT.