H. C. Bell.

Saw Sharpener.

No. 95,871. Patented Oct. 19, 1869.

Fig: 1.

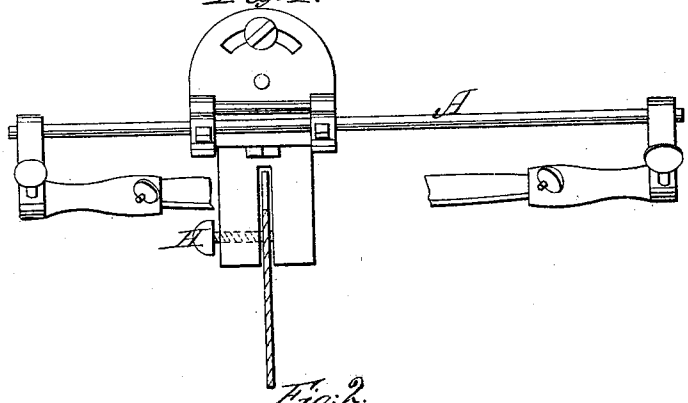


Fig: 2.

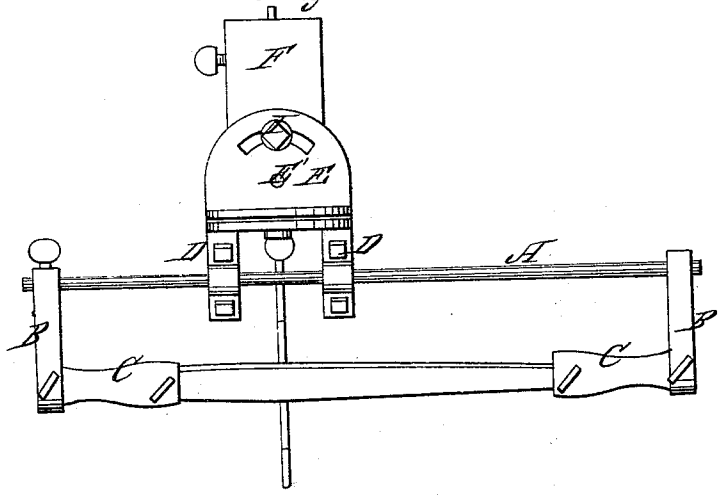
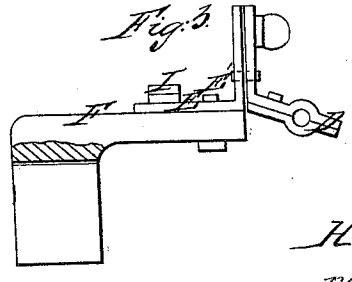


Fig: 3.



Witnesses.
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HENRY C. BELL, OF EMPORIA, KANSAS.

Letters Patent No. 95,871, *dated October* 19, 1869; *antedated October* 13, 1869.

IMPROVEMENT IN SAW-FILING MACHINE.

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, HENRY C. BELL, of Emporia, in the county of Lyon, and State of Kansas, have invented a new and useful Improvement in Saw-Filing Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to improvements in saw-filing apparatus, whereby it is designed to provide a simple portable machine, which may be readily attached to any saw, for filing the same; and

It consists in the peculiar construction and arrangement of parts, as will be hereinafter more fully described.

Figure 1 represents a front elevation of my improved machine;

Figure 2 represents a plan view of the same; and

Figure 3 represents a detail view.

Similar letters of reference indicate corresponding parts.

A represents a file-holding rod, provided with the arms B at each end, for holding the handles C of the file.

One of the said arms is rigidly fixed to the rod, and the other arranged to be detached for the insertion of the file-handles when containing the file, the ends of which are inserted in sockets in the inner ends of the handles.

The other ends of the handles are fitted into holes in the arms, in a manner to allow the file to be turned on its axis to fit the angle of the teeth of the saws.

The rod A is supported in the arms D of a holding-bracket, E, pivoted to a clamp, F, having a slot, G, for the reception of a portion of the plate of a saw, and securing it to the saw by the set-screw H.

The said rod A is so supported by the said arms, that it has freedom to reciprocate therein, to admit of the to-and-fro movement of the file past the tooth, whereby the filing is accomplished, and the bracket E is arranged to swing on its pivot E', to allow the file to be adjusted to the line of the face of the teeth, whether at right angles to the saw-plate or any other angle, and a set-screw, I, passing through a curved slot in the bracket, and screwing into the clamp F, is provided for holding the bracket in the desired position.

The apparatus is to be moved from one tooth to another, and properly adjusted for each, in the process of filing, the operation of which will be fully understood without further description.

Having thus described my invention,

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

The construction and arrangement of the slotted angular clamp F, the slotted angular plate E, adjustable upon the clamp F, and the slotted guide D, adjustable upon the plate E, as herein shown and described.

The above specification of my invention signed by me, this 20th day of June, 1868.

HENRY C. BELL.

Witnesses:

E. BORTON,

JAS. S. MCWHORTER.