(No Model.)

L. N. TORRENCE & R. T. REID.

SAW SHARPENING GAGE.

No. 286,348. Patented Oct. 9, 1883.

Fig. 1

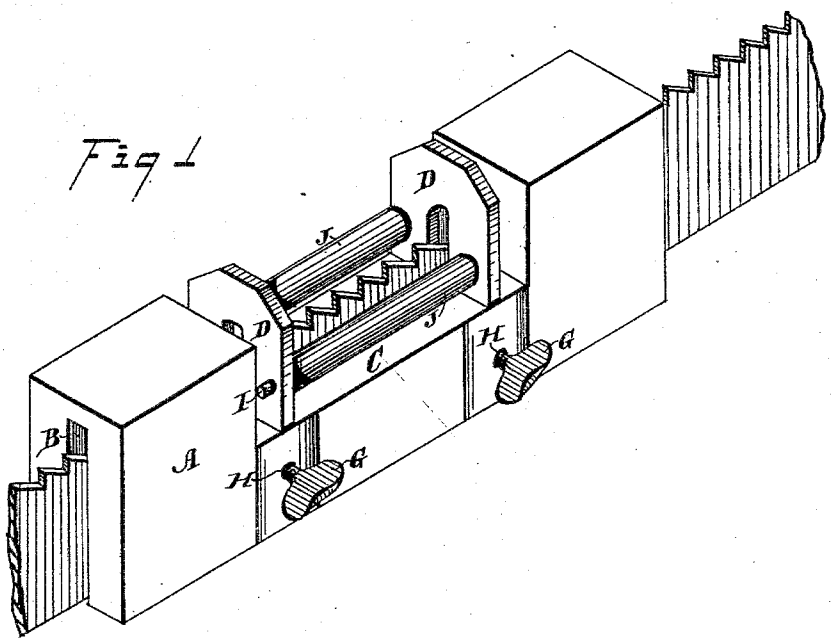


Fig. 2.

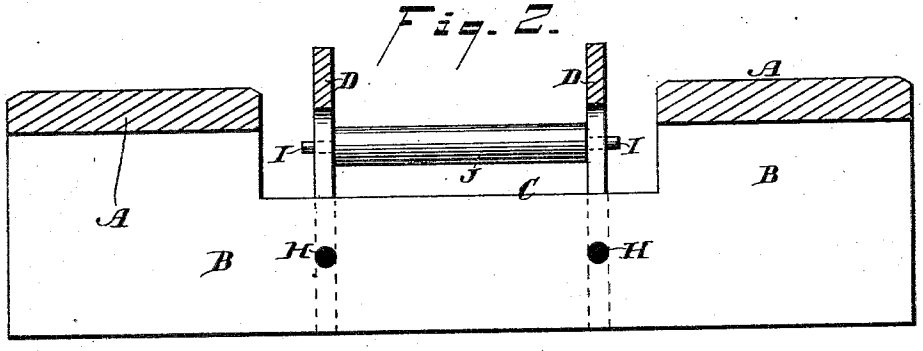
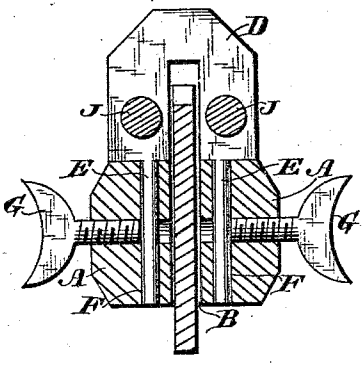


Fig. 3



Attest:
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UNITED STATES PATENT OFFICE.

LEVI N. TORRENCE AND ROYAL T. REID, OF SHAWNEETOWN, MISSOURI.

SAW-SHARPENING GAGE.

SPECIFICATION forming part of Letters Patent No. 286,348, dated October 9, 1883.

Application filed April 27, 1883. (No model.)

To all whom it may concern:

Be it known that we, LEVI N. TORRENCE and ROYAL T. REID, citizens of the United States, residing at Shawneetown, in the county of Cape Girardeau and State of Missouri, have invented a new and useful Saw-Sharpening Gage, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to gages for use in filing saw-teeth; and its object is to provide a device possessing superior advantages in point of simplicity, inexpensiveness, durability, and general efficiency.

In the drawings, Figure 1 is a perspective view of our improved gage in position on the saw. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view taken through the adjusting-screws.

Referring to the drawings, A designates a saddle-block, which is provided with a longitudinal groove or kerf, B, in its under edge, which groove opens into a depression or recess, C, in the top edge of the said block. In this recess C are arranged two inverted-U-shaped bridges or arches, D D, which straddle the groove B near each end of the said recess, and have their side stems, E E, extend into perforations or holes F F, formed through the block A. The bridge-pieces are vertically adjustable in these perforations F F by means of set-screws G, which work through screw-threaded perforations H in the sides of block A and come against the stems E E, as shown. In each bridge-piece D is provided a bearing at each side the slot or kerf B, as shown at I I, for rollers J J, longitudinally disposed and parallel with the said kerf B, one roller being at each side the latter and having its ends bearing in the two bridge-pieces. If desired, a set-screw may be arranged to work through the block and against the saw, to secure the saddle-block in position on the latter.

The operation and advantages of our invention are obvious. The saw is inserted in the kerf B, as shown, so that the teeth will come up between the rollers. The bridge-pieces carrying the rollers are now adjusted vertically, according to the depth of teeth it is desired to have, and secured by the set-screws, when the file is brought into use and passes over the said guide-rollers, which will turn and not damage the file in any way, while they serve as a support for the same.

By the use of this device the length or size of the teeth can be readily regulated.

The bridge-pieces can be easily adjusted or removed.

We claim as our invention—

The combination of the saddle-block having the kerf or groove in its under edge, and the recess or depression in its top edge, transverse bridge-pieces arranged in the said recess, and vertically adjustable in the same, and rollers disposed longitudinally on each side the said groove or kerf, and having their bearings in the adjustable bridge-pieces, as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

LEVI N. TORRENCE.
ROYAL T. REID.

Witnesses:
J. R. LITTELL,
WM. BAGGER.