

J. H. MARTIN.
Saw-Gummers.

No. 151,788.

Patented June 9, 1874.

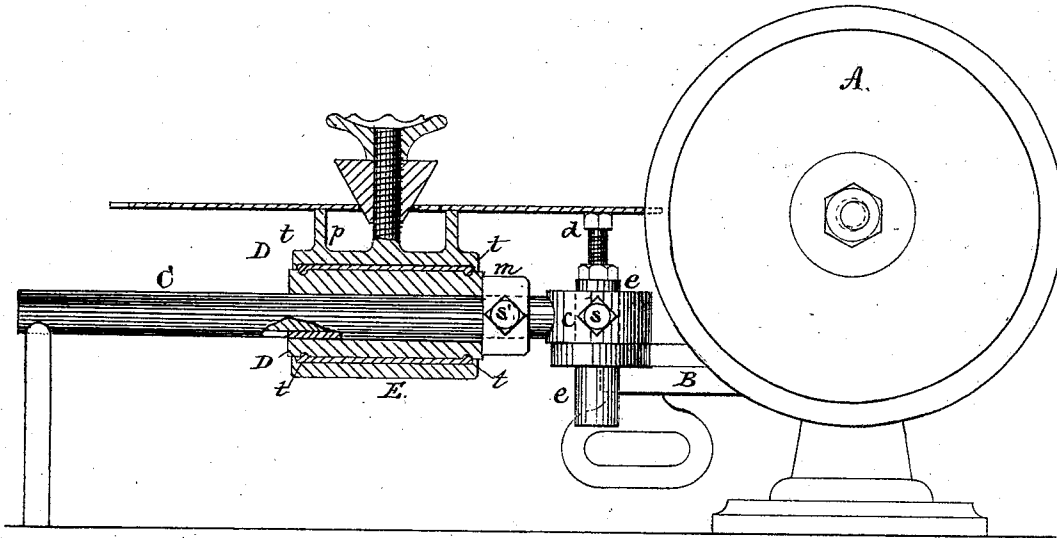


FIG. 2.

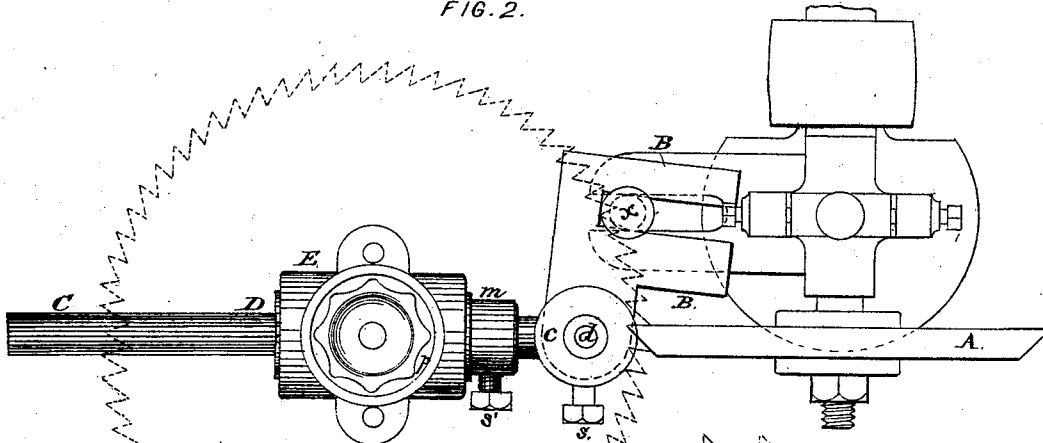


FIG. 1.

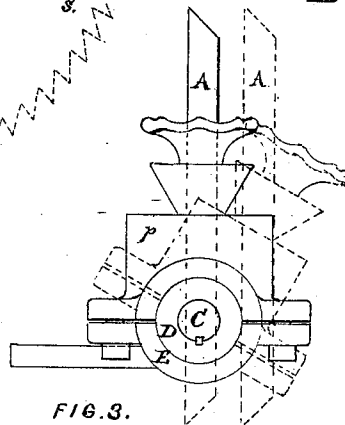


FIG. 3.

WITNESSES.

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IMPROVEMENT IN SAW-GUMMERS.

Specification forming part of Letters Patent No. 151,788, dated June 9, 1874; application filed July 28, 1873.

To all whom it may concern:

Be it known that I, JOHN H. MARTIN, of Williamsburg, in the State of New York, have invented an Improvement in Saw-Gummer; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a plan. Fig. 2 is a side elevation, partly in section. Fig. 3 is a detailed view of the device for obtaining the rocking motion.

The improvement consists in the combination of two sleeves, for sliding up and rocking the saw, with a swinging device and rest, so arranged that the sliding and rocking devices have the same center, whereby there is obtained the greatest range for beveling the saw.

In the drawings, A is the emery-wheel, mounted upon a standard in the ordinary manner. B is a slotted plate or hold-fast, secured to the standard by the nut and thumb-screw *a*, as shown. In one end of the hold-fast, directly in front of the emery-wheel, is a fixed post, *e*, and in the top of this post is a screw, the head of which, *d*, forms a rest for the saw. C is a rod fixed at one end to a sleeve, *c*, and both swing upon the post *e*, a set-screw, *s*, serving to hold the rod C in any desired position. D is a sleeve, lined with babbitt-metal, sliding on the rod C, as shown, its movement toward the grinding-wheel being limited by an adjustable stop, *m*, which is held in position by a set-screw, *s'*. Rotary motion of this sleeve is prevented by a spline in the sleeve fitting a longitudinal groove in the rod C. E is an outer sleeve, also lined with babbitt-

metal, which may have a rotary movement about the sleeve D, longitudinal motion being checked by tongues *t t*, fitting in grooves which pass around the inner sleeve. Upon the outer sleeve is a circular support, *p*, upon which the saw is secured by an ordinary cone, as shown. The two sleeves with the support form a carriage for the saw.

The saw has the usual movements found in saw-gummers—viz., a motion toward and away from the wheel, and a motion to the right and left in the same plane, and also a tipping motion. In this respect my invention differs from other saw-gummers only in regard to the center of the tipping motion. There is a similar peculiarity in regard to the rest *d*. For this rest is a prolongation of the center or pivot upon which the carriage-rod C swings, and is, therefore, always in a line between the center of the saw and the part operated upon, whether the saw is swung to the right or left, and whether it is tipped to the right or left, as well as when it is presented directly in front of the grinding-wheel, and in a horizontal position.

I claim—

The saw-carriage consisting of the inner sleeve D, sliding on rod C, the outer sleeve E, rotating on sleeve D, and having the ring *p* for supporting the saw, and a cone for fixing it, the rod C, attached to sleeve *c*, rotating on post *e*, and carrying the screw-rest *d*, all constructed, arranged, and operating in the manner and for the purpose described.

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Witnesses:

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