(No Model.)

G. VAN NOSTRAND.

SAW GUMMER.

No. 290,947. Patented Dec. 25, 1883.

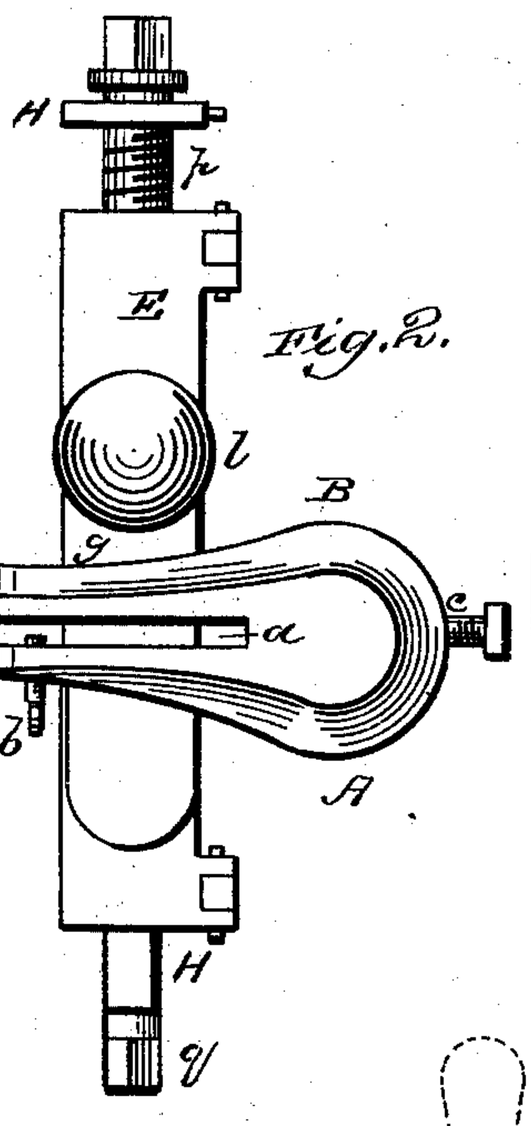

Fig. 2.

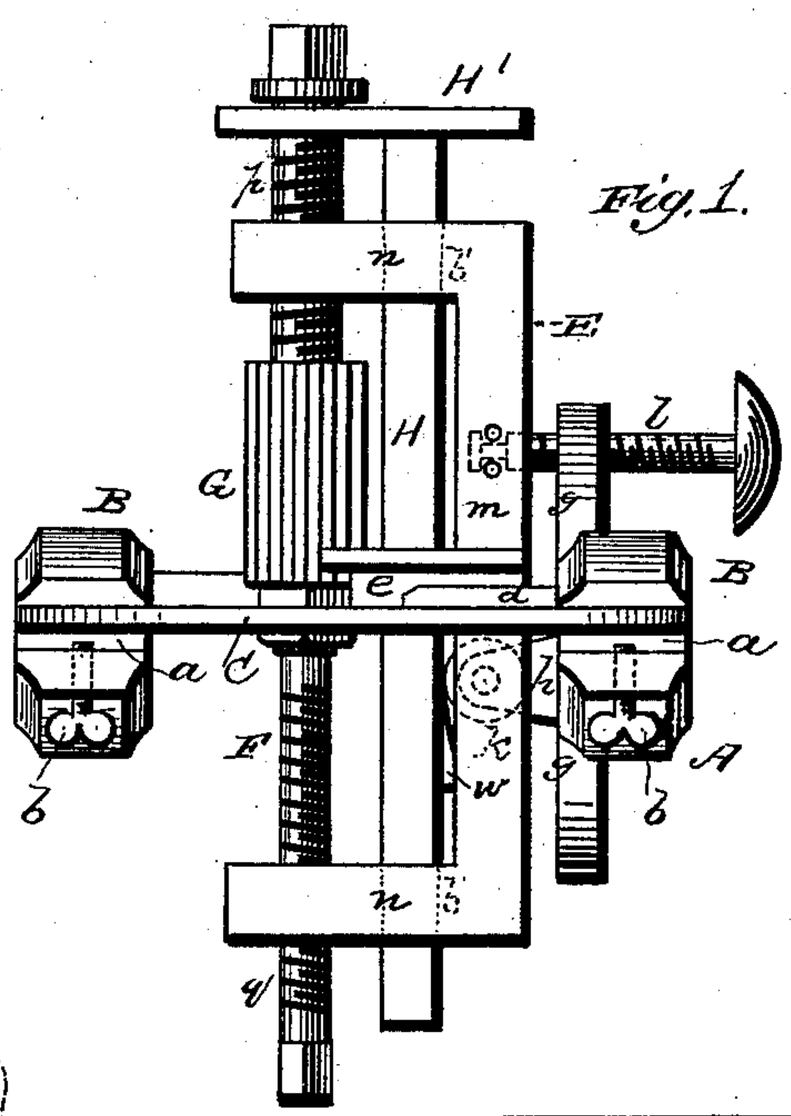

Fig. 1.

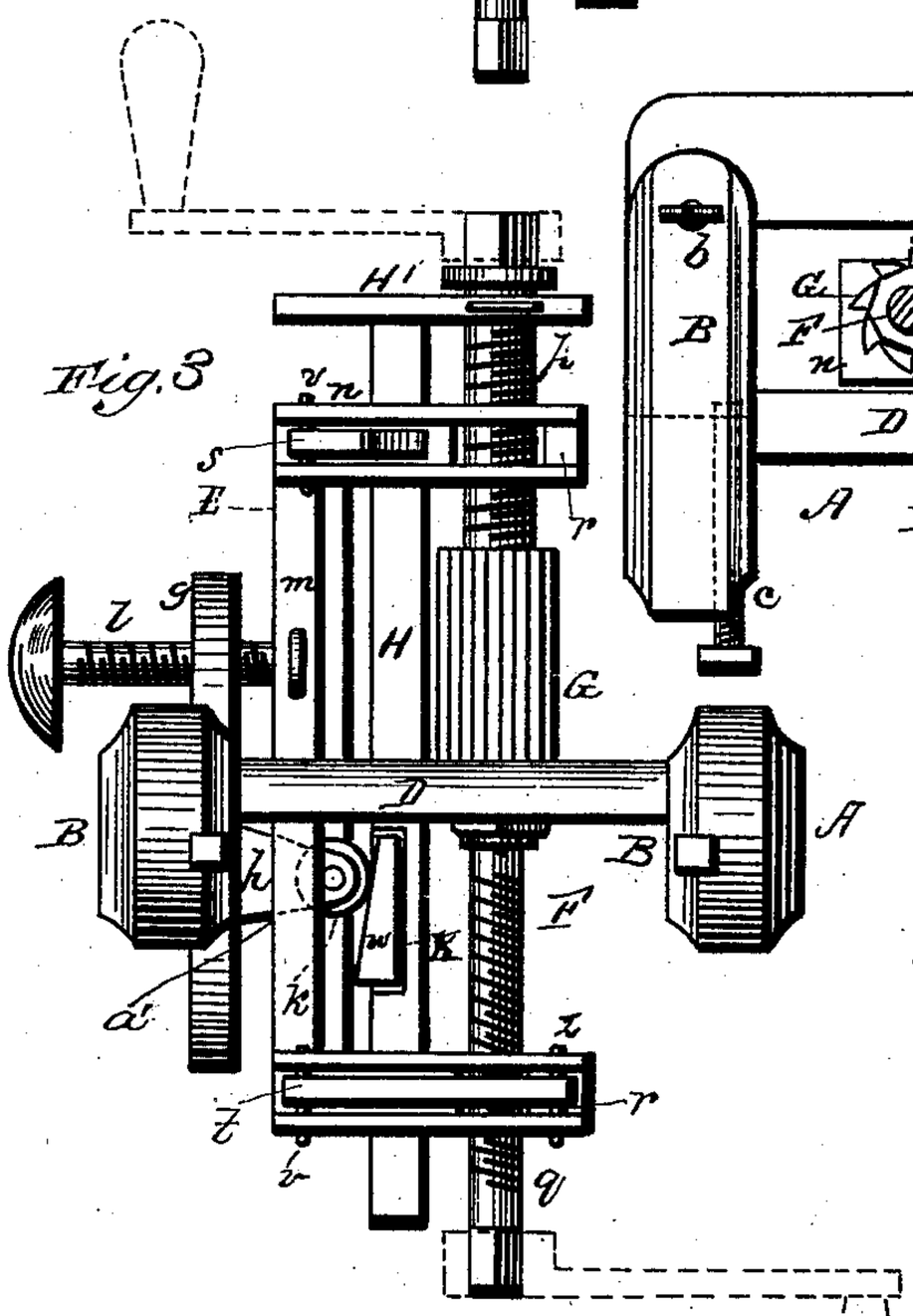

Fig. 3.

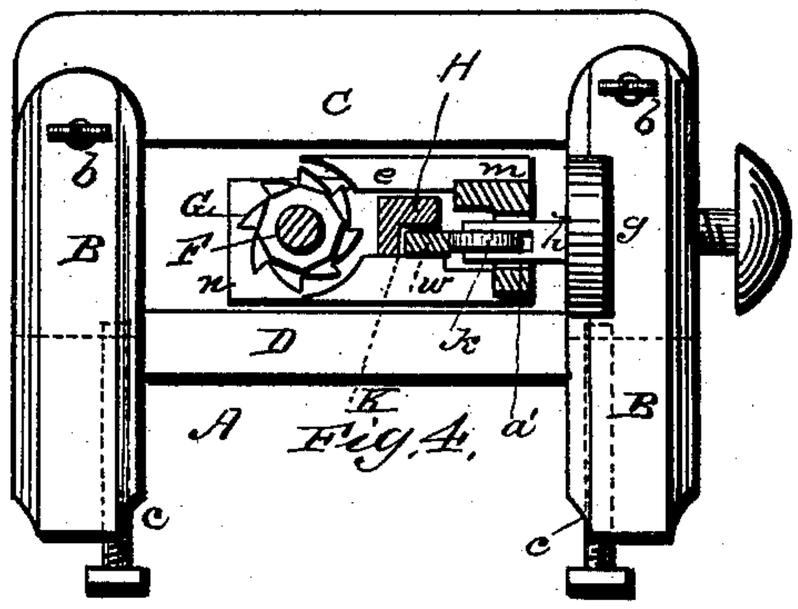

Fig. 4.

WITNESSES

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GEORGE VAN NOSTRAND, OF GLOVERSVILLE, NEW YORK.

SAW-GUMMER.

SPECIFICATION forming part of Letters Patent No. 290,947, dated December 25, 1883.

Application filed January 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE VAN NOSTRAND, a citizen of the United States, residing at Gloversville, in the county of Fulton and State of New York, have invented certain new and useful Improvements in Saw-Gummers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a plan view of my saw-gummer. Fig. 2 is a side view. Fig. 3 is a bottom view, and Fig. 4 is a cross-sectional view of the same.

This invention has relation to machines for gumming saws; and it consists in the construction and novel arrangement of parts, as will be hereinafter fully described, and pointed out in the claim appended.

In the accompanying drawings, the letter A designates the main clamp, which is formed with the cleft bearings *a* in its branches B, for the saw. Set-screws *b* are provided to hold the saw, and threaded bearings *c* to receive the screws that regulate the position of the teeth, so that the action of the burr will be uniform. The points of the screws *c c* come against the back edge of the saw, to adjust the saw and present the teeth evenly to the burr G. The branches of the main clamp are connected by transverse bars C and D, whereof the former, C, is provided with a guide-lug or flange, *d*, which is designed to engage a groove-bearing, *e*, of the shaft-carrier E. One of the branches B of the main clamp is provided with a back bearing, *g*, to which is secured an arm, *h*, carrying a roller, *k*. The bearing *g* is also provided with a regulating-screw, *l*, the end of which is swiveled in the shaft-carrier, and serves to regulate the position of the latter with reference to the main clamp. The shaft-carrier E is formed with a longitudinal body-bar, *m*, having arms *n* projecting from its ends, and perforated for the passage of the arms *p* and *q* of the longitudinal shaft F, which carries the long burr or cutter G. The arms of the shaft are respectively provided with right-hand and left-hand threads. The arms *n* of the shaft-carrier are channeled, as indicated at *r*, to receive the hinged bars *s* and *t*, having a half-nut formed in each for the purpose of engaging with the screw-shaft, the threads on the half-nuts corresponding to those on the shaft. These half-nuts may be locked, when thrown into engagement with the screw-shaft, by means of a pin or bolt, *z*, passing through holes in the arms *n* and the free ends of said bars, the other ends of the bars working on pivot-pins *v*. These hinged bars are designed to be used alternately, one being thrown out of engagement while the other is at work. The back bar, *m*, of the shaft-carrier is provided with a slot or opening, *a'*, through which extends the arm *h*, carrying the roller *k*. In front of this roller, through slots *b'* in the arms *n* of the shaft-carrier, extends a bar, H. This bar H is provided with a head, H', which is connected to the end of the arm *p* of the shaft, so that when said shaft is turned the bar H will move longitudinally in front of the roller. In the edge of the bar H next to the roller is made a recess or seat, K, designed to receive a removable wedge, *w*. As the shaft is turned to operate the burr, the latter is not only rotated, but also moved longitudinally in a regular and uniform manner. At the same time the wedge, moving longitudinally with the bar H, slides against the roller of the main clamp, so that the shaft-carrier is forcibly moved forward, crowding the burr into the saw. The shaft is provided with a crank-handle at each end, so that the instrument can be operated with facility. As the burr is fed longitudinally as well as into the metal of the saw, the labor of operating the instrument after adjustment consists only in turning the crank of the burr-shaft.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

A saw-gumming machine having its burr-shaft provided with right and left hand threads, and the shaft-carrier provided with pivoted half-nuts having right and left hand threads adapted to engage with the threads of the burr-shaft, and mechanism for operating the burr longitudinally, and also crowding it into the metal of the saw, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE VAN NOSTRAND.

Witnesses:
D. SCIDMORE,
A. C. KASSON.