H. BAUGHMAN.

SAW-GUMMING MACHINE.

No. 169,508. Patented Nov. 2, 1875.

Fig. I.

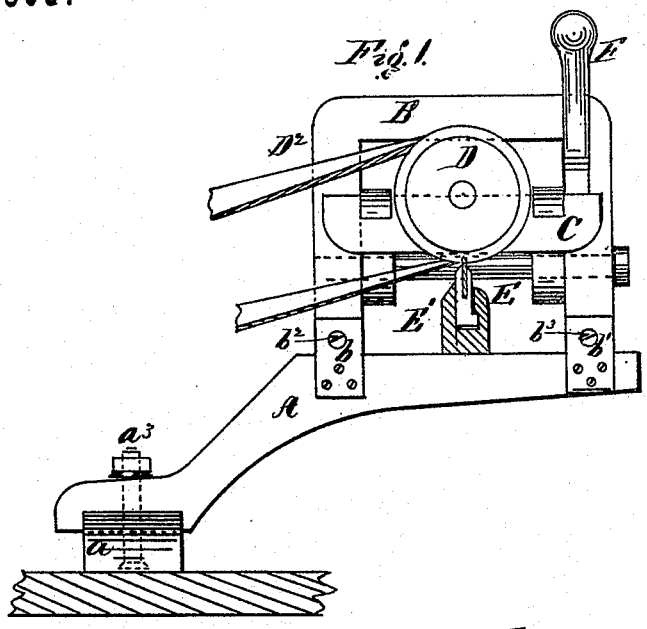


Fig. II.

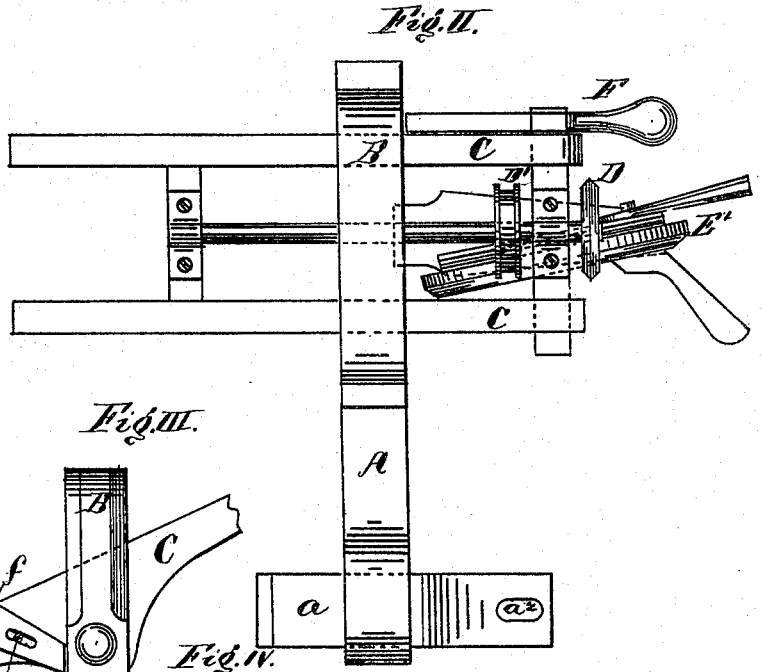


Fig. III.

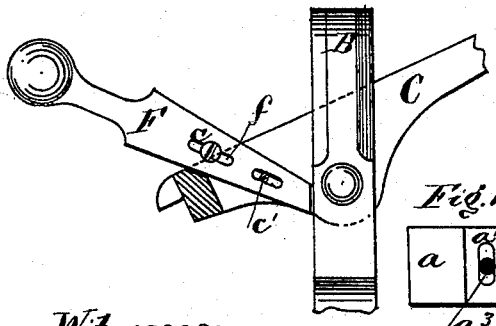
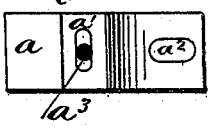


Fig. IV.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY BAUGHMAN, OF DORN'S GOLD MINE, SOUTH CAROLINA.

IMPROVEMENT IN SAW-GUMMING MACHINES.

Specification forming part of Letters Patent No. **169,508**, dated November 2, 1875; application filed April 3, 1875.

To all whom it may concern:

Be it known that I, HENRY BAUGHMAN, of Dorn's Gold Mine, in the county of Abbeville and State of South Carolina, have invented a new and useful Improvement in Saw-Gumming Machines; and I do hereby declare the following to be a clear and full specification of the same.

This invention is a continuation of the improvements heretofore made by me on the same subject, and patented February 18, 1873, December 9, 1873, and July 18, 1875, and relates especially to the fixing-frame that carries the operative parts of the machine.

The drawings illustrating the invention consist of four figures, as follows: Figure 1 is a front elevation of the machine. Fig. 2 is a general plan of the same. Fig. 3 is a side elevation of a part of the machine, showing the adjustable stop that regulates the depth of cut and direction of bevel in the gumming operation. Fig. 4 is a bottom plan of the adjustable foot-piece.

The frame consists of a sill-piece, A, and a vertical, or nearly vertical, frame, B, to which is pivoted a horizontal or rocking frame, C, that carries the arbor, on which is placed the gumming-wheel. These parts exist in the machines formerly patented by myself in a somewhat different form. The gumming-wheel D, its arbor D^1, and driving-belt D^2, and the saw-clamping device E E′ are similar in this machine to the corresponding parts described in my former patents, and hence will not be particularly described in this specification.

The sill-piece A is curved, as shown in Fig. 1, and its lower or fixed end is attached to a foot-piece, *a*, as shown in Figs. 1 and 2. This foot-piece is attached to a general frame, (not shown,) or to the floor of the building in which the machine is used. It has two slots, a^1 and a^2, for the reception of bolts or pins, by which to attach it to the other parts. The slot a^1 is for the reception of the bolt a^3 that holds the sill-piece A to the foot-piece *a*, and permits a transverse adjustment of the sill-piece and its connections. The slot a^2 is for the accommodation of the bolt that holds the foot-piece down to the floor, or to the stationary frame that supports the other parts. This slot permits an adjustment of the machine corresponding with a longitudinal adjustment of the gumming-wheel arbor. The upright frame B is attached to the sill-piece A by means of straps *b b′*. The strap *b* acts as a hinge, on which the front end or side of the said frame B is opened from its connection with the sill-piece, so as to admit the introduction of a band-saw to be gummed. The strap *b′* holds the front post of the frame B down to the sill-piece when the parts are adjusted, as in use. The pins b^2 and b^3, respectively, form the hinge-pivot and the coupling-pin of the straps, to which they belong. The adjustable guide F is attached to the side of the frame C by means of a set-screw, *c*, and a pin, *c′*, which enters the slot *f*, and permits a longitudinal adjustment of the said guide F. A slot in the said guide also permits this adjustment on the screw *c*.

The upper end of the guide extends above the frame C, and is rounded off into a handle, which the operator can grasp to manipulate the machine in operation, so as to press the gumming-wheel down upon, or raise it out of, the serrations of the saw-blade.

By setting the guide-piece E by means of the set-screw *c*, as required, the lower end of the said guide will rest against the front face of one of the posts of the frame B, as shown in Fig. 3, and so limit and adjust the depression of the frame C at a certain point, and the gumming-wheel will thereby be made to form all of the teeth of a uniform size, which size may be easily arranged for any particular saw by the adjusting-guide F, as above described.

When it is desired to "strike" a circular saw the frame C and its attachments will be raised up, so as to properly position the gumming-wheel, and the guide F set down against the frame B, when the saw will be rotated and trued up, as required.

Having described my invention, I claim—

The combination of the frame A B, constructed as described, with the pivoted frame C carrying the grinding-wheel D, and adjustable stop F, substantially as and for the purpose set forth.

HENRY BAUGHMAN.

Witnesses:

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