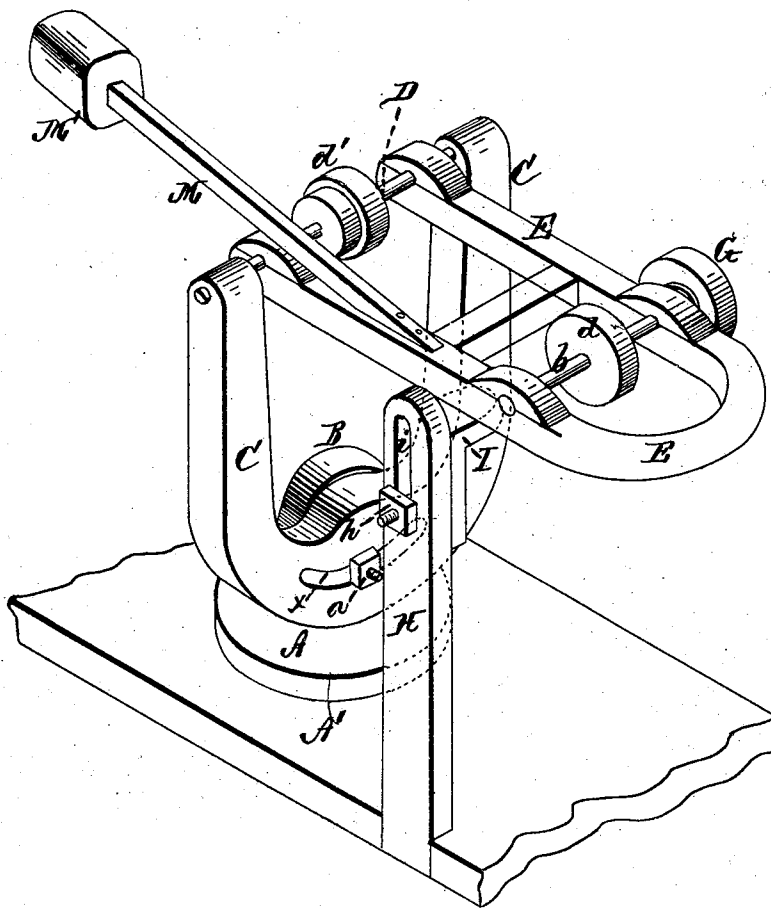


L. GIBBS.
Saw-Gummers.

No. 145,643.

Patented Dec. 16, 1873.



Witnesses:

Henry N. Miller
C. L. Evert,

Inventor.

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per Alexander Watson

Attorneys.

UNITED STATES PATENT OFFICE.

LUTHER GIBBS, OF FREMONT, OHIO, ASSIGNOR TO HIMSELF AND HASSEL HUDSON, OF SAME PLACE.

IMPROVEMENT IN SAW-GUMMERS.

Specification forming part of Letters Patent No. 145,643, dated December 16, 1873; application filed July 2, 1873.

To all whom it may concern:

Be it known that I, LUTHER GIBBS, of Fremont, in the county of Sandusky and in the State of Ohio, have invented certain new and useful Improvements in Saw-Gummer; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a device for gumming saws, as hereinafter more fully set forth.

The figure in the accompanying drawing represents the entire machine, shown in perspective.

A represents a base-plate, suitably attached to a bench-top or flat board, A'. Extending upward from the base A is a short standard, B. C represents a horseshoe-shaped standard provided with a curved slot, *x*, at its lower portion, and through which is passed a bolt after passing through the upright piece B. A nut, *a*, on the end of this bolt, secures the parts B and C together. Journaled in each end of the standard C is a cross-shaft, D, having a belt-pulley, *d'*. E represents a frame made somewhat of the shape of the standard C. The two arms of this frame are journaled around the shaft D, so that the frame can be raised or lowered at its front end. Upon the forward end of this frame E is a cross-shaft, *b*, provided with a belt-pulley, *d*, and an emery-wheel, G, at its outer extremity on the outer part of the frame. M represents a rearward-extending bar, having a suitable weight, M'. This bar M is fastened to the frame E, near its center, and is extended far enough back to allow the weight M' to act as a counterpoise for the frame. H represents a standard upon the piece A'. The top of this standard has a slot, *i*, and on its inner face opposite this slot is secured an T-shaped support, I, by means of the bolt and nut *h* passing through the slot and support. This support is for the purpose

of resting the front end of the frame E upon, and is adjustable up and down on its standard H. The frame E is so connected to the standard C that it can be moved sidewise upon the shaft D. The shaft D may be movable sidewise in its bearings, and the frame E rigidly connected to the shaft instead of being movable on said shaft. Either mode of attachment will enable the operator to cause the cutting of the teeth by the wheel G at the place required.

It will be understood that the frame or standard C is movable on the standard B. The slot *x* in the standard C is on the arc of a circle. The object is to allow the emery-wheel to be tilted in such a position that it will be made to grind up under the tooth of the saw, and at any angle desired. By this means the belt remains on a line, whether the frame E is horizontal or is tilted to the right or left. If it is desired to move the frame E to the right, it is only necessary to move the bottom of the frame C to the left.

The shaft *b* and emery-wheel G in the frame E are not movable in their bearings, so that they are always held true in their proper positions, and cannot tilt.

When it is desired to work the wheel outward or inward the operator with one hand moves the entire frame on or with the rear countershaft D.

Having thus described my invention, what I claim is—

The combination of the upright standard B, bifurcated standard C with the curved slot *x*, countershaft D, movable frame E with emery-wheel G, and the counterpoise M M', all constructed substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of June, 1873.

LUTHER GIBBS.

Witnesses:

A. N. MARR,
C. L. EVERT.