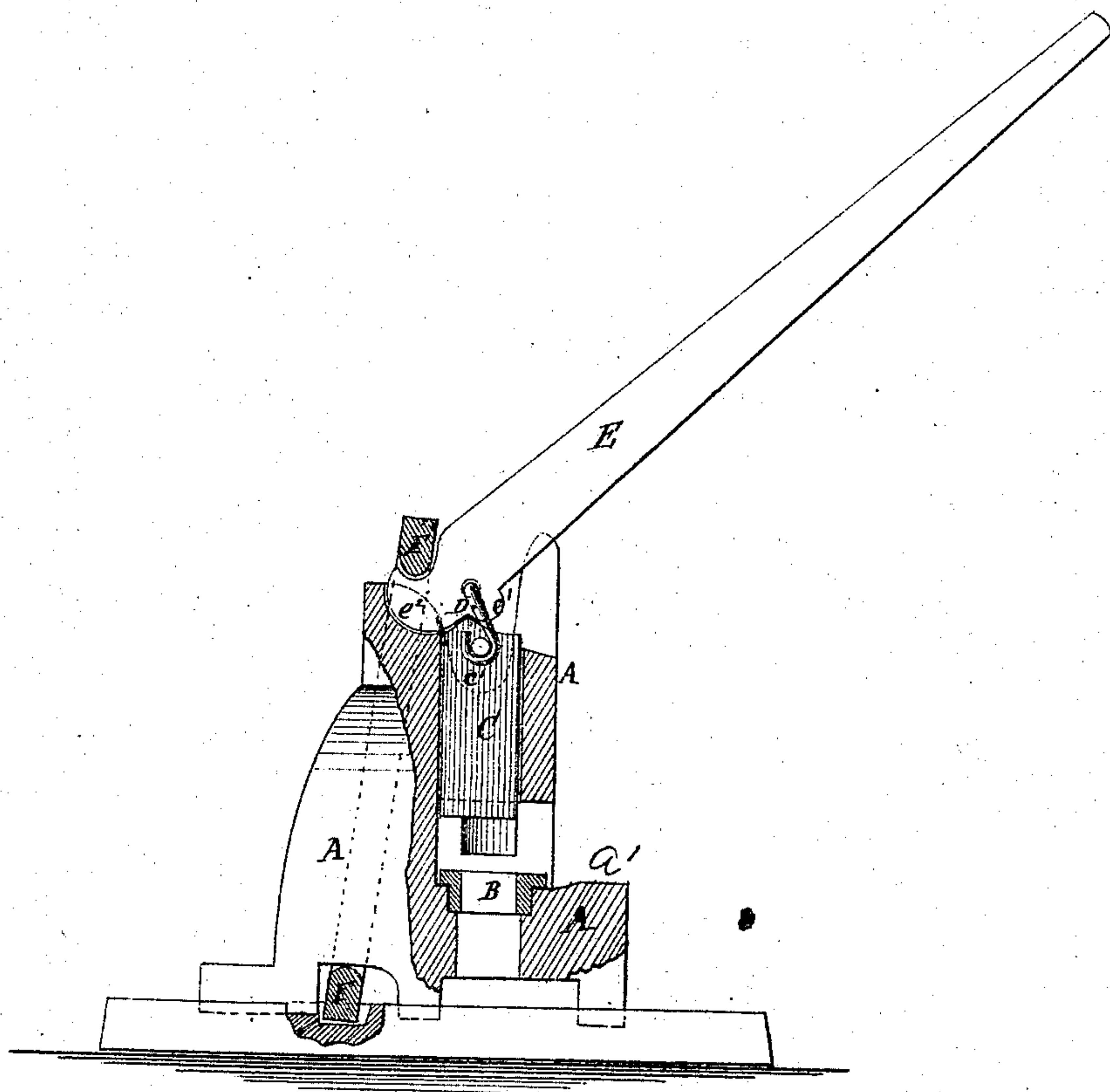


W. Reed. Saw Gummer.

118274

PATENTED AUG 22 1871



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM REED, OF ALLENTOWN, PENNSYLVANIA.

IMPROVEMENT IN SAW-GUMMERS.

Specification forming part of Letters Patent No. 118,274, dated August 22, 1871.

To all whom it may concern:

Be it known that I, WILLIAM REED, of Allentown, in the county of Lehigh, State of Pennsylvania, have invented a new and useful Improvement in Saw-Gummer; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which the figure is a side view of my improved machine, parts being broken away to show the construction.

My invention has for its object to furnish a simple, compact, and effective machine for gumming saws; and it consists in the construction and arrangement of the various parts of the machine, as hereinafter more fully described.

A is the stock or frame of the machine, which is designed to be bolted or otherwise secured to a bench or other support. The forward part of the stock A is cut away to form a table, *a'*, in which is placed the die-plate B that supports the part of the saw-plate upon which the punch C is operating. The punch C works in a vertical hole in the forward upper part of the stock A. The top of the stock A is recessed transversely to receive the pins or lugs *c'* formed upon or attached to the sides of the upper end of the punch C to receive the hooks or eyes of the link D that passes through a hole in the inner part of the lever E near its end. The forward side of the top of the stock A is slotted to receive and serve as a guide to the lever E. Upon the under side of the in-

ner end of the lever E is formed a cam, *e*¹, that rests upon the top of the punch C, and, as the outer or free end of the lever E is forced downward, forces the punch C through the saw-plate. The inner end of the lever E is rounded off or has a cam, *e*², formed upon it which works in a groove in the forward side of the rear part of the top of the stock A, and thus serves as a fulcrum to the lever E when operated to raise the punch. F is a link, the lower end of which rests in a recess in the base of the stock A, and its upper end rests in a notch or recess in the upper edge of the inner end of the lever E so as to serve as a fulcrum in operating said lever to force the punch through the saw-plate.

By this construction, as the outer end of the lever E moves downward the fulcrum moves forward, so that when the punch comes in contact with the saw-plate the short arm of the lever may be very short, causing the punch to operate with very great power.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The arrangement of the lever E, provided with the cams *e*¹ *e*² and link F, with the punch C and the recessed, slotted, and grooved top of the stock A, substantially as herein shown and described, and for the purpose set forth.

WILLIAM REED.

Witnesses:

JOHN L. HANKE,
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