(No Model.)

M. BROCK.

NAILING APPARATUS FOR LASTING BOOTS OR SHOES.

No. 312,550. Patented Feb. 17, 1885.

Fig: 1.

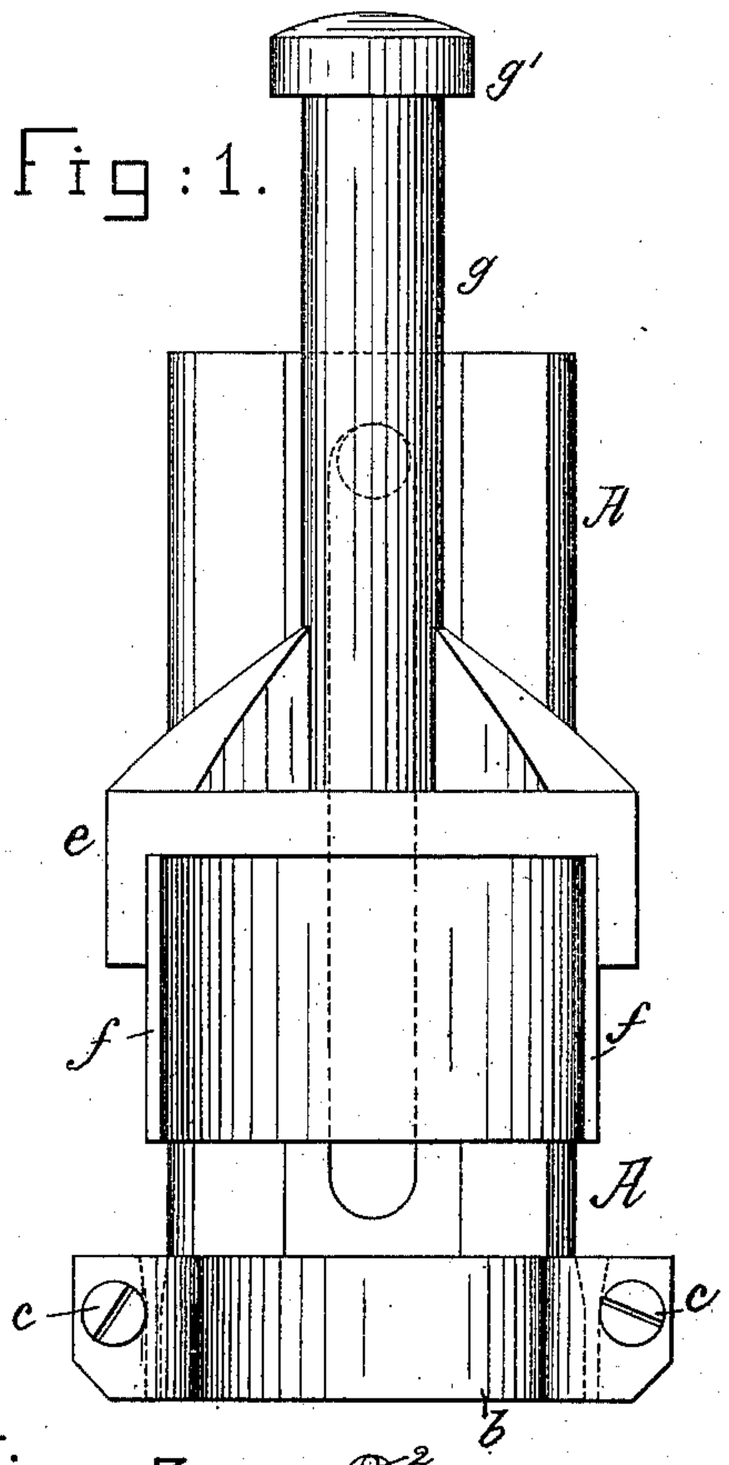


Fig: 2.

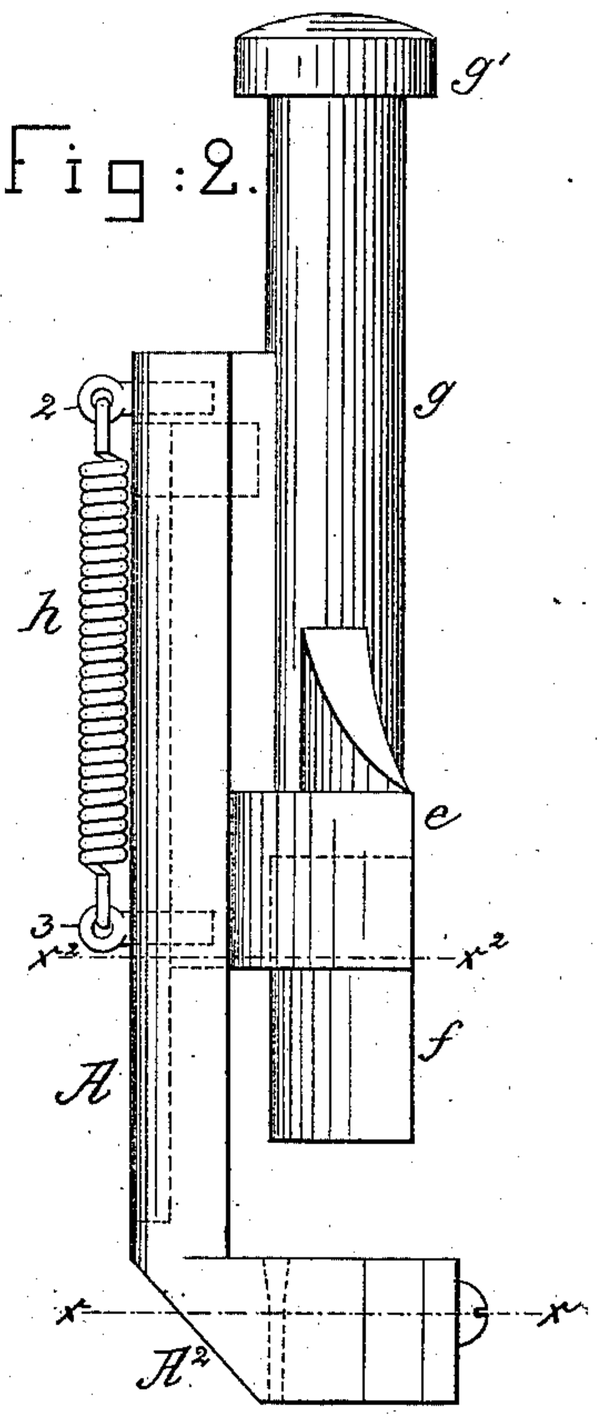


Fig: 3

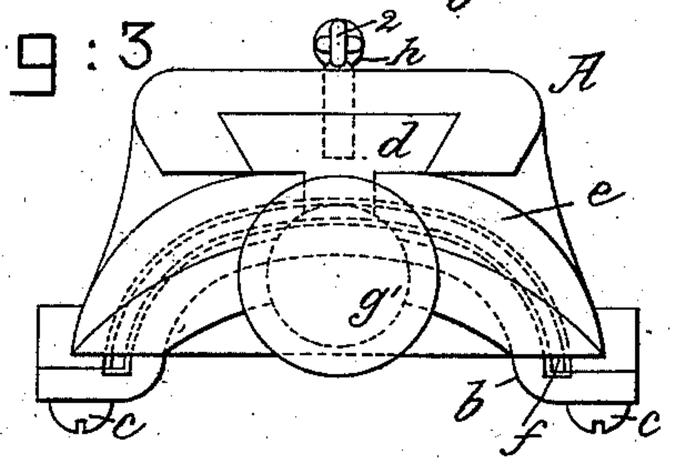


Fig: 4.

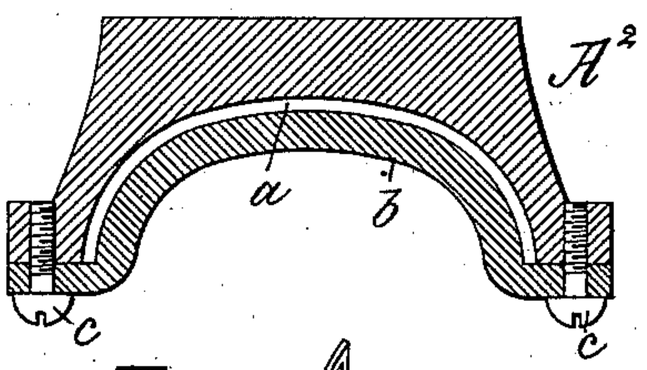


Fig: 5.

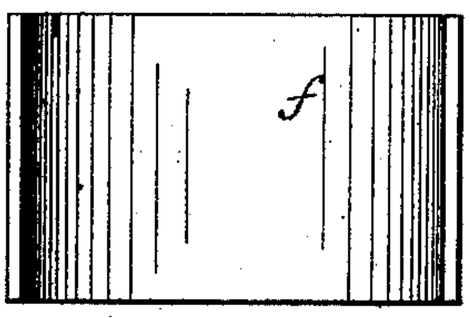


Fig: 6

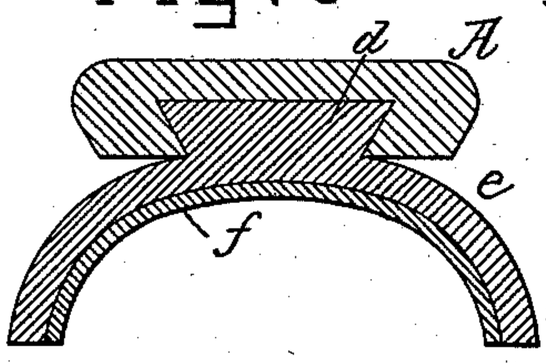
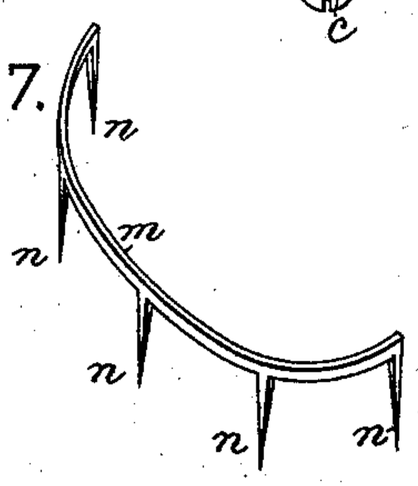


Fig: 7.



Witnesses.

Arthur Lipperden.

John F. C. Breinkert

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UNITED STATES PATENT OFFICE.

MATTHIAS BROCK, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE McKAY & COPELAND LASTING MACHINE COMPANY, OF PORTLAND, MAINE.

NAILING APPARATUS FOR LASTING BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 312,550, dated February 17, 1885.

Application filed November 24, 1884. (No model.)

To all whom it may concern:

Be it known that I, MATTHIAS BROCK, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Nailing Apparatus for Lasting Boots and Shoes, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

When lasting boots and shoes, the edge of the upper about the toe of the last and inner sole is laid over upon the inner sole and crimped or plaited to present as great uniformity in thickness as possible, and then each edge of the upper is secured to the inner sole by separate nails, tacks, or pegs.

Instead of using separate nails or pegs, the upper laid over upon the inner sole may be fastened thereto by a fastening-strip composed of a narrow band of metal having two or more prongs or shanks extended therefrom, the said band being curved or bent to conform substantially in contour to the curve of the end of the inner sole.

My invention has for its object the production of an apparatus by which to drive a toe-lasting fastener such as described; and my invention consists, essentially, in a nose provided with an elongated curved or arc-shaped throat, combined with a driver having a correspondingly-elongated curved or arc-shaped foot to strike the said fastener and simultaneously drive its several prongs.

Figure 1 in front view represents a nailing apparatus embodying my invention; Fig. 2, a side elevation thereof; Fig. 3, a top view of Fig. 1; Fig. 4, a section of Fig. 2 in the dotted line *x x;* Fig. 5, a side view of the driver; Fig. 6, a section of Fig. 2 below the dotted line x^1 x^2; and Fig. 7 is a view of the fastener to be driven by the apparatus to be described.

The frame or hand part A has at its lower end a broad nose, A^2, which is provided with an elongated throat, *a*, the latter being a vertical passage made between the concaved face of the nose and the inner side of a bar, *b*, attached to the nose by screws *c c*, the said bar thus becoming a part of the said nose and resting upon the edge of the upper, where it is turned over upon the bottom of the inner sole at the toe of the boot or shoe or last on which the upper and inner sole are held, as when lasting the same in usual manner. The upright hand part of the frame is provided, as herein shown, with a groove to receive the projection *d*, extended from the rear side of the block *e*, to which is firmly secured by screws or otherwise the elongated driver *f*, which is curved or bent as shown in the drawings, to enter and fill the throat from end to end. The head *e* is attached to the lower end of the driver rod or bar *g*, having a knob, *g'*, to be struck by hand or by a hammer to operate the driver. The driver-bar and driver are elevated by the spring *h*, connected with the studs 2 3, the latter being attached to the dovetail projection *d*.

The fastening to be driven by the apparatus described is shown in Fig. 7, and consists of a strip, *m*, having several prongs or shanks, *n n*, from three-eighths to three-quarters of an inch apart, the strip forming the head for the fastening, the head being elongated and bent or curved to conform to the throat *a* and substantially to the shape of the toe and of the inner sole.

The apparatus may be used to drive a like fastener into the upper and inner sole when lasting the heel of the boot or shoe.

I claim—

In a nailing apparatus for lasting boots and shoes, a frame or standard having an attached nose provided with an elongated curved throat, combined with an overhanging reciprocating driver having its lower end bent or curved to enter and fit the elongated curved throat, to thereby drive a fastener having an elongated head and two or more prongs, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MATTHIAS BROCK.

Witnesses:
B. J. NOYES,
W. H. SIGSTON.