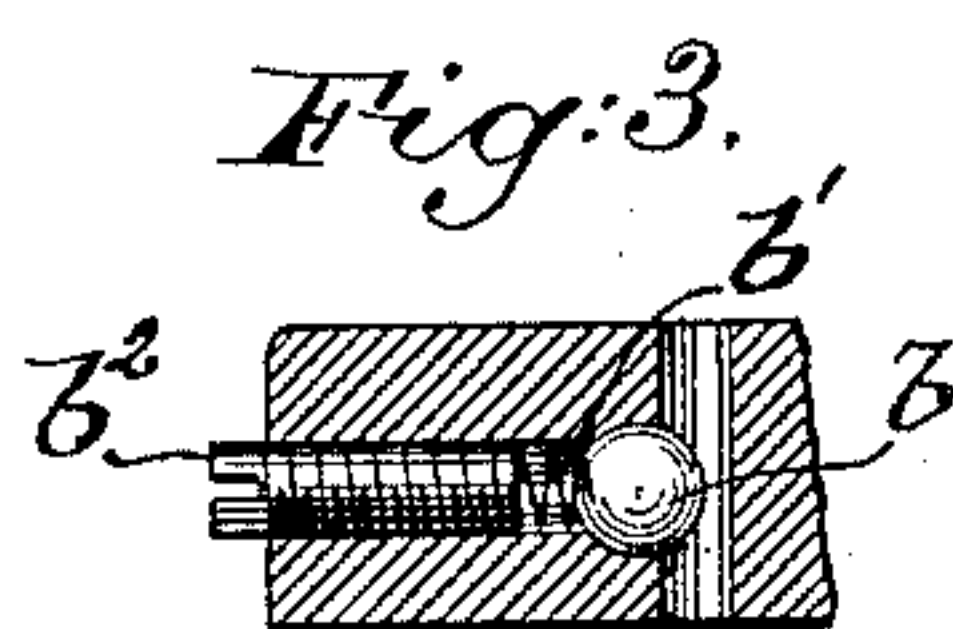
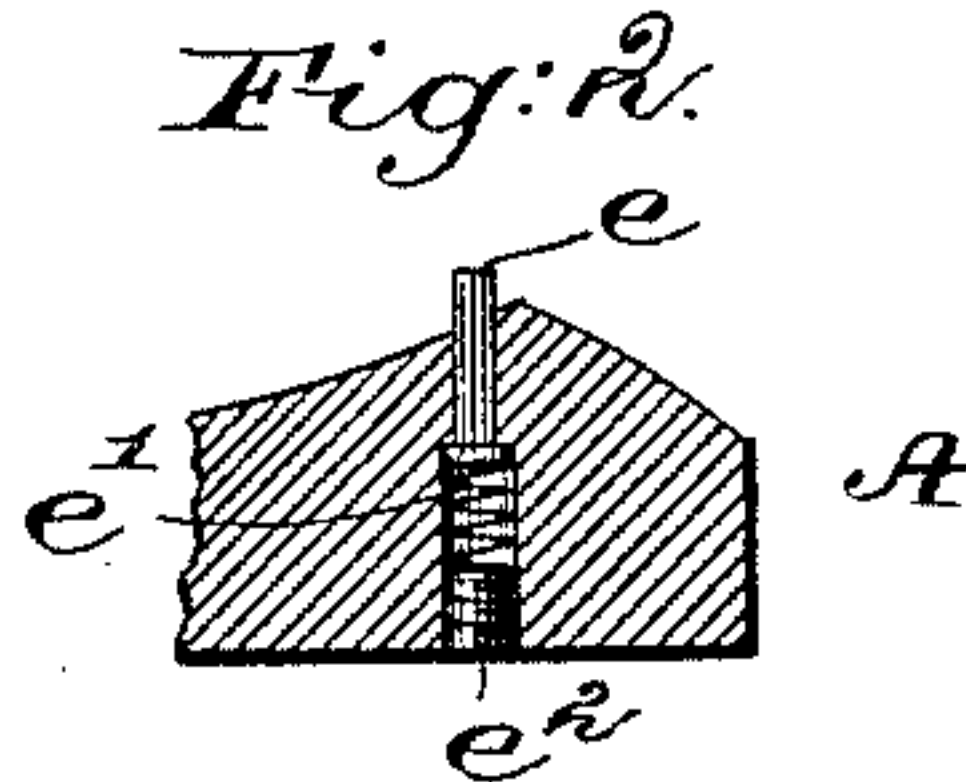
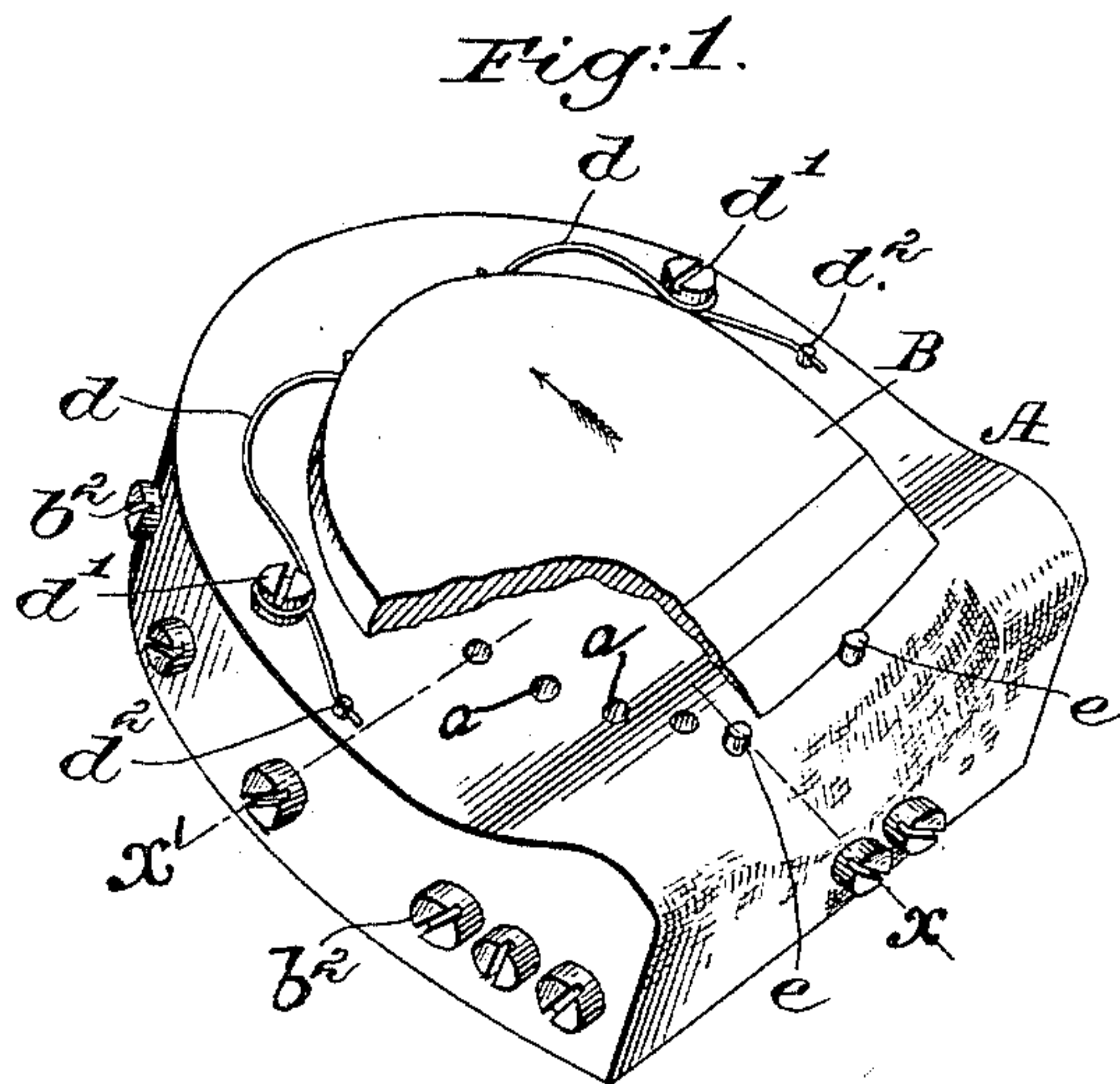


(No Model.)

C. H. BROWN & A. B. McCOY.
HEEL NAILING MACHINE.

No. 477,098.

Patented June 14, 1892.



witnesses.

Frederick S. Greenleaf.
Edward F. Allen.

Inventors,

Charles H. Brown
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UNITED STATES PATENT OFFICE.

CHARLES H. BROWN AND ALONZO BURR MCCOY, OF BURLINGTON, NEW JERSEY, ASSIGNORS TO JAMES W. BROOKS, TRUSTEE, OF CAMBRIDGE, MASSACHUSETTS.

HEEL-NAILING MACHINE.

SPECIFICATION forming part of Letters Patent No. 477,098, dated June 14, 1892.

Application filed March 23, 1892. Serial No. 426,079. (No model.)

To all whom it may concern:

Be it known that we, CHARLES H. BROWN and ALONZO BURR MCCOY, of Burlington, county of Burlington, State of New Jersey, have invented an Improvement in Heel-Nailing Mechanism, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention is an improvement on that described in United States Letters Patent No. 457,462, dated August 11, 1891, and has for its object to provide means for holding the heel or a lift or block in position on the templet while the nails are being driven and permitting its release after the nails are driven.

In accordance with our invention we have provided the templet with a spring or springs to act on the rear of the lift or heel-blank and keep the breast edge of the lift or blank against spring-supported gage-pins until the nails are driven, during which operation the pins are depressed below the surface of the templet facing the lift or heel-blank.

Figure 1 in perspective shows a templet embodying our invention, it being shown as holding a lift or blank suitable for what is called a "spring-heel." Fig. 2 is a partial section in the line x , part of the lift being broken away to show some of the nail-holes below it; and Fig. 3 is a section in the line x' .

The body A of the templet has a series of holes a for the reception of the nails to be driven into the lift or blank B. The screws b^2 will in practice act on springs b' , which in turn will act against and hold balls or friction devices b , the screws, springs, and balls being substantially the same as parts designated by like letters in said patent. To the templet we have attached two springs $d d$, they being shaped to act against the rounded rear end of the lift or blank B rather than against its side edges, the springs being shown as of wire coiled about and held in place by studs $d' d'$, one end of each spring being anchored by a pin d^2 , the studs being preferably so set that the lifts B may be put readily in place without necessarily touching the springs, except at their ends. The templet is also provided with

gages $e e$ shown as headed pins set on springs e' , herein shown as held in holes in the templet by plugs or screws e^2 . The templet shown and described may be used in a heel-nailing machine having drivers to drive the nails from the holes a into the lift or heel-blank of whatever shape or thickness.

In operation the heel lift or blank b will be laid on the top of the templet, the latter being loaded with nails in the usual manner, and the lift or blank will be pushed in the direction of the arrow, Fig. 1, until the breast end of the lip is passed beyond the gage-pins e , when the latter will rise, and then the springs will keep the lift or blank in the position shown in Fig. 1.

In the operation of driving the nails into the lift or blank to attach it to the sole the sole of the shoe will contact with the gages $e e$ and depress them.

The springs d , one or more, and the gages e , one or more, constitute a lift or heel-block holder.

Having described our invention, what we claim, and desire to secure by Letters Patent, is—

1. A templet, combined with a spring to act against the rounded rear edge of the heel, and a spring-supported vertically-movable gage, against which the spring presses the breast of the lift or heel, substantially as described.

2. The templet and the independent spring-supported vertically-movable gages, combined with a spring to act against the lift or blank and hold it against the gages, substantially as described.

3. The two springs $d d$, their holding-studs, and the templet, combined with a spring-supported vertically-movable gage adapted to act against the breast of the lift or blank, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

CHAS. H. BROWN.

ALONZO BURR MCCOY.

Witnesses:

CHARLES A. RIGG,

PHILIP R. SOOY.