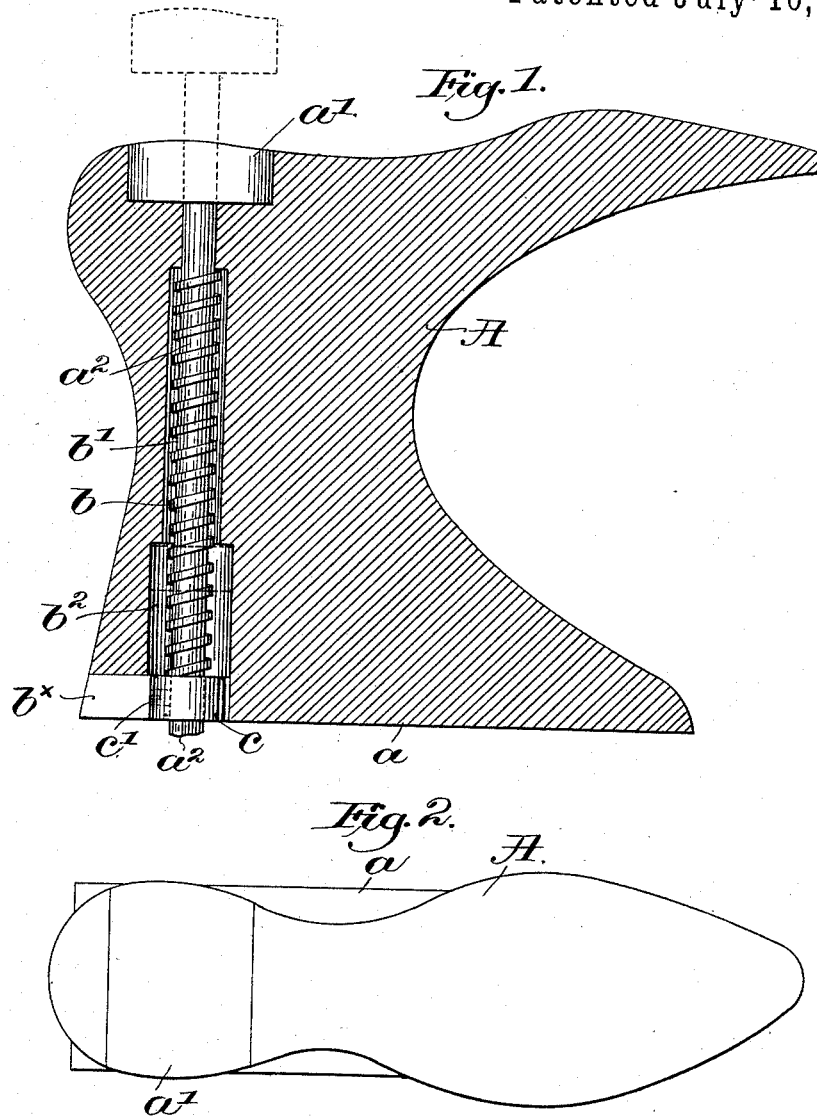


(No Model.)

W. L. BARRELL.
SHOE SUPPORT.

No. 522,775.

Patented July 10, 1894.



Witnesses.
Louis N. G. well,
Fred S. G. m. b. of.

Inventor.
William L. Barrell.
by Crosby & Gregory
attys.

UNITED STATES PATENT OFFICE.

WILLIAM L. BARRELL, OF LAWRENCE, MASSACHUSETTS.

SHOE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 522,775, dated July 10, 1894.

Application filed August 14, 1893. Serial No. 483,054. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. BARRELL, of Lawrence, county of Essex, State of Massachusetts, have invented an Improvement in Shoe-Supports, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the production of a device for supporting boots or shoes during the process of manufacture, and which may be used in various classes of hand or power machines where it is desirable to have a firm and steady support for the boot or shoe, and I have provided means to act upon the interior of the shoe and raise it from the support to thus aid in the removal of the same when the particular manipulation thereof is finished.

In accordance therewith my invention consists, in the combination with the last-shaped support to receive a shoe thereover, and having a recess in its bottom near its heel end, of an ejector shaped as a block fitting loosely in said recess, and adapted to support the heel end of the sole of the shoe, the upper surface of the block normally lying flush with and completing the bottom of the last, and a rod extending through said support to actuate said ejector and cause it to move outwardly from said recess and act against the inner side of the heel of the sole and raise the heel end of and partially lift the shoe from said support, substantially as will be described.

Other features of my invention will be hereinafter described and particularly pointed out in the claims.

Figure 1 in section and partial elevation represents a support embodying my invention. Fig. 2 is a top view thereof.

I have herein shown the support A shaped like a last, upon which the boot or shoe is fitted, said support being preferably made of iron, and having an extended base a to give it greater rigidity.

The support is provided at the heel end with an ejector, herein shown as a movable portion a' of the heel, provided with a shank a^2 extended through the support and beyond its base, as shown in Fig. 1, the ejector normally being maintained in retracted position by

gravity, or by a spring b surrounding the shank.

The opening in the support is cored out at b' to receive the spring, and is preferably enlarged, as at b^2 , to permit the movement therein of an adjusting and retaining collar or nut c , held on the shank by a set screw c' , see dotted lines Fig. 1, the tension of the spring being regulated by the position of the collar or nut c on the shank.

An opening b^x in the base of the support gives access to the set screw for adjusting purposes.

Normally the ejector is held in retracted position, shown in full lines Fig. 1, by gravity or the tension of the spring, and the shoe is placed on the support by the operator. When the manipulation thereof has been completed the ejector is moved against the action of the retractile force into the dotted line position, Fig. 1, the ejector thereby acting against the interior of the heel end of the shoe and raising it from the support, so that it can be removed therefrom with very slight effort.

As the shoe usually fits snugly on the support it would require considerable force on the part of the operator, and the use of both hands, to remove it, but by the use of an ejector to act upon the interior of the shoe it is raised from the support and so loosened that with one hand and very little force the operator can remove it.

In another application, Serial No. 484,170, filed August 28, 1893, I have shown a machine having supports therein such as herein described, means being provided for automatically actuating the ejector.

This invention is not restricted to the exact construction and arrangement as herein shown, as the same may be somewhat varied without departing from my invention.

I claim—

1. A last-shaped support to receive a shoe thereover, and having a recess in its bottom near its heel end, combined with an ejector shaped as a block fitting loosely in said recess and adapted to support the heel end of the sole of the shoe, the upper surface of the block normally lying flush with and completing the bottom of the last, and a rod extending through said support to actuate said ejector and cause it to move outwardly from said

recess and act against the inner side of the heel of the sole and raise the heel end of and partially lift the shoe from said support, substantially as described.

5 2. A last-shaped support to receive there-
over the shoe to be operated upon, and a re-
cess in its bottom near the heel end, combined
with an ejector shaped as a block fitting
loosely in said recess and adapted to support
10 the interior of the heel end of the shoe sole,
the upper surface of the block normally lying
flush with the bottom of the last, means to
normally retract the ejector, a rod extended
through the support to actuate and cause the

block to act against the interior side of the 15
heel of the sole and partially lift the heel end
of the shoe from said support, and an adjust-
able stop to limit outward movement of the
ejector and thereby regulate the lifting move-
ment of the shoe, substantially as described. 20

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

WILLIAM L. BARRELL.

Witnesses:

JOHN C. EDWARDS,
FREDERICK L. EMERY.