

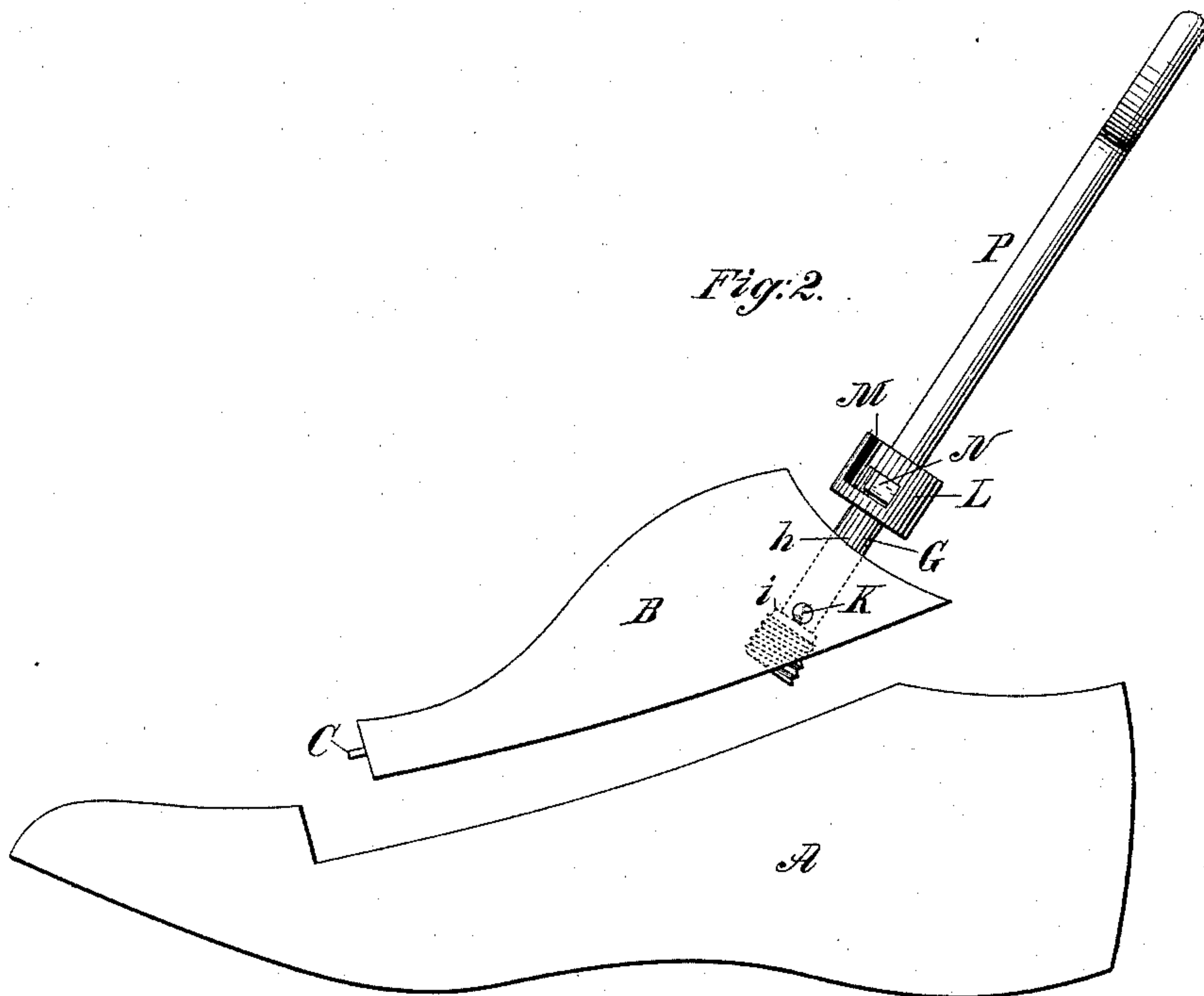
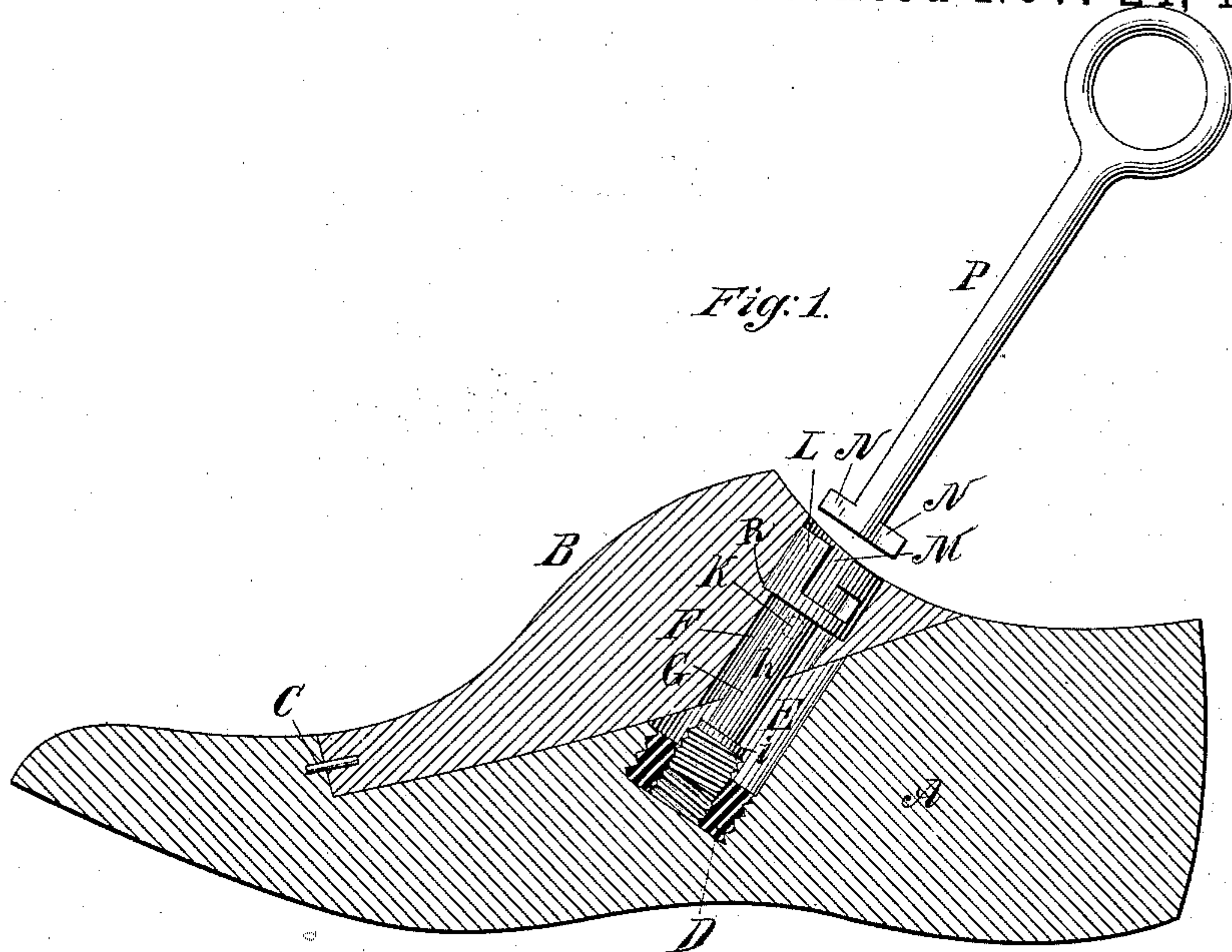
(No Model.)

C. POMEROY.

SHOE LAST.

No. 331,256.

Patented Nov. 24, 1885.



Witnesses;

C. C. Perkins.
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UNITED STATES PATENT OFFICE.

CHARLES POMEROY, OF NEW YORK, N. Y.

SHOE-LAST.

SPECIFICATION forming part of Letters Patent No. 331,256, dated November 24, 1885.

Application filed September 1, 1884. Renewed October 15, 1885. Serial No. 179,980. (No model.)

To all whom it may concern:

Be it known that I, CHARLES POMEROY, of the city, county, and State of New York, have invented a new and useful Improvement in Shoe-Lasts; and I do hereby declare that the following is a full 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.

My invention relates to lasts to be used in the manufacture of boots and shoes. It has for its object a detachable fastening for the two parts or sections of the last by a device which shall remain attached to the upper section, and which will facilitate its removal from the lower section when in the boot or shoe, and which, when locked, will not project beyond the last.

It consists of a nut secured in the lower section of the last and of a threaded bolt working through an aperture in the upper section to engage said nut, the bolt being confined in said aperture so that it may not be entirely withdrawn therefrom, and fitted with a socket at its outer end provided with an angular slot adapted to receive a key, by means of which the bolt is operated and the upper section of the last lifted and withdrawn from the lower section.

In the accompanying drawings, Figure 1 is a central longitudinal section through the last, illustrating its portions united by my improved locking-bolt, with the key in elevation above it; Fig. 2, an elevation of the last, showing its upper portion lifted by means of the key.

A represents the body or lower section of the last; B, its upper detachable section; C, a dowel-pin by which the front end of the upper section, B, is confined to the lower section, A, in the customary manner.

D is a nut exteriorly threaded, to admit of being screwed down into a recess, E, Fig. 1, in the upper face of the body A of the last, in register and line with an aperture, F, pierced through the upper section, B, of the last at the rear end thereof.

G is a bolt adapted to be inserted through said aperture F, having its lower inner end threaded to engage the fixed nut D. The body of the bolt is reduced in diameter, so as to leave a shoulder, *i*, above the thread, and pins

K K (see Fig. 2, and dotted lines Fig. 1) are inserted in opposite directions transversely through the last at a right angle to the length of the bolt far enough to cause their inner ends to bear lightly against the body thereof, so that its shoulder *i*, coming into contact with the pins, will prevent withdrawal of the bolt wholly from the aperture in which it is thus confined. The outer end of the bolt is formed with an enlarged head, L, recessed to form a socket, in whose sides two angular slots, M M, are cut diametrically opposite each other, the outer portion of each slot being in line with the axis of the bolt and the inner portion at a right angle to the first, whereby a bayonet-joint is formed for the reception of the two studs, N N, projecting at diametrically-opposite points from the lower end of a key-rod, P.

The length of the lock-bolt G is so proportioned with reference to the distance between the fixed nut D and the outer face of the last, when the upper section, B, is properly fitted in place upon the body A, as that when the bolt is screwed into said nut D the outer end of the bolt shall be entirely inclosed within the aperture F, so that there shall be no projection whatever upon the outer surface of the last. At the same time the shoulder formed by the head L is brought to bear against a counterpart offset or concentric seat, R, within the aperture F.

The bolt is operated by inserting the end of the key-rod P into the slotted socket at the outer end of the bolt, so that its studs N N shall enter and engage the slots M M. By turning the key P the bolt is screwed into or unscrewed from the fixed nut D. When screwed up, the head L is brought to bear against its seat R in the upper section, B, and thus bind and lock it firmly upon the lower section, A, of the last. When unscrewed, the bolt may be drawn out by means of the key P from the opening E until the stop-pins K K strike the shoulder *i* above the threads, and a further outward movement of the key will then operate to lift the section B off from the body A of the last, as illustrated in Fig. 2, and out from the boot or shoe in which it is fitted.

I am aware that the upper and lower portions of a last to be used in the repair of shoes have heretofore been adjusted and fastened to-

gether by means of a loose thumb-screw led
through the upper portion of the last to engage
a nut fixed in the lower portion, in combination
with one or more wedges inserted between
5 them, the head of the screw being left project-
ing out through a slotted plate on the outer
face of the upper portion, so as to bear thereon,
and serve also as a means for turning the bolt;
but my improvement differs from this device
10 in that the screw-bolt is adapted to enter
wholly a recess in the upper portion, so as not
to project therefrom at any point when the
two sections are united thereby, and is, while
free to turn so as to be screwed and unscrewed
15 into and out of the nut, so confined to the up-
per portion of the last as to be inseparable
therefrom, and is, moreover, actuated solely
by means of a detachable key, which, being
made to engage the bolt, serves as an instru-
20 ment for withdrawing the upper section of
the last from the body thereof and out from
the boot or shoe manufactured thereon.

I claim as my invention—

The combination, with the upper and lower
sections of a shoe-last, of a screw-bolt led 25
through an aperture in the upper section to
engage a fixed nut in the lower section, a
shoulder formed above the threaded portion
of the bolt to engage one or more transverse
pins projecting into the aperture encircling 30
the bolt, an offset within said aperture to en-
gage the head of the bolt, and a slotted recess
in the head adapted to receive and engage a
key for rotating and retracting the bolt, all
substantially in the manner and for the pur- 35
pose herein set forth.

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

CHARLES POMEROY.

Witnesses:

THEODORE C. OTIS,
E. C. PERKINS.