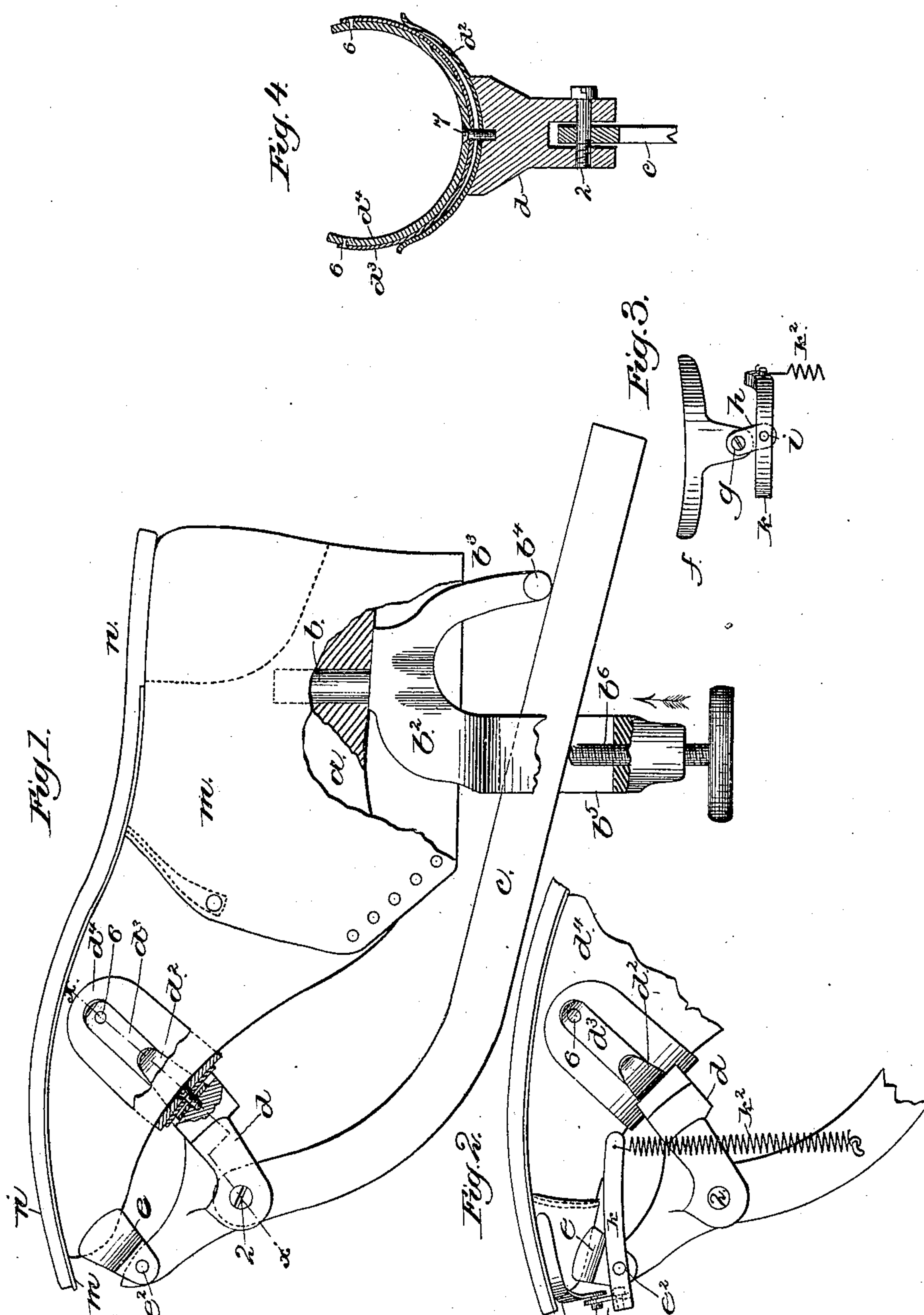


(No Model.)

E. BERTRAND.
BOOT OR SHOE HOLDING JACK.

No. 258,696.

Patented May 30, 1882.



Witnesses:
John F. C. Prentiss
B. J. Moyer

Inventor
Eli Bertrand
by Crosby & Morgan
Attys.

UNITED STATES PATENT OFFICE.

ELI BERTRAND, OF BOSTON, MASSACHUSETTS.

BOOT OR SHOE HOLDING JACK.

SPECIFICATION forming part of Letters Patent No. 258,696, dated May 30, 1882.

Application filed April 6, 1882. (No model.)

To all whom it may concern:

Be it known that I, ELI BERTRAND, of Boston, county of Suffolk, and State of Massachusetts, have invented an Improvement in
5 Boot and Shoe Holding Jacks, of which the following description, in connection with the accompanying drawings, is a specification.

My invention has for its object the production of a jack to hold a boot or shoe while the
10 edge of an outwardly-turned upper is being stitched in a sewing-machine or otherwise to an outside sole.

In this my invention the last upon which are placed the upper and sole to be united is entered by a last-holding or heel pin extended
15 from a standard or fulcrum block having co-operating with it a lever provided with a swiveling-block having a toe-rest pivoted upon it, the said block being also provided with
20 a spring-clamp.

Immediately in front of the toe-rest, and adapted to fit the toe of the boot or shoe closely, is a pivoted spring-plate or toe-clamp adapted to rock upon a lever herein shown as having its
25 fulcrum coincident with the pivot of the toe-rest, the said lever being operated in one direction by a spring, or it may be by a screw. This spring-plate or toe-clamp is free to move vertically and laterally independently of and with
30 relation to the toe-rest to readily adapt itself to the particular shape of the last and the material of the upper about and at the toe of the last, and to hold the toe of the upper firmly in position on the toe of the last when the upper
35 and sole are being united.

Figure 1 represents in broken side elevation a sufficient portion of my improved shoe-holding jack with last and shoe thereon to illustrate my present invention, the toe-clamp being,
40 however, omitted, to avoid confusion of the drawings. Fig. 2 is a detail showing the toe-clamp applied as it will be in practice. Fig. 3 is a detail of the toe-clamp to show how it is supported, and Fig. 4 is a sectional detail on
45 the line $x-x$, Fig. 1.

The last a , of usual construction, is fitted upon the heel-pin b , extended from the standard b^2 , having a backward extension, b^3 , provided with a fulcrum-piece, b^4 . The main part of
50 this standard has a slot or opening, b^5 , which receives the lever c , which latter is acted upon

by the end of the screw b^6 , the latter, when moved in the direction of the arrow, forcing the left-hand end of the lever c and its attached parts toward the last and shoe thereon, the
55 right-hand end of the said lever resting against the fulcrum b^4 . The lever c has connected with it at one end by pivot 2 a block, d , to which are attached the spring-clamp and a toe-rest. The spring-clamp is shown as composed of two pieces of spring-steel d^2 d^3 , connected with the block d by a screw, 7. The spring d^3 has a piece of leather, d^4 , secured within it by rivets 6, the said leather serving
60 better than metal to insure the requisite amount of friction on the upper about the top of the last to stretch or fit the upper m to the top of the last between its toe and instep as the clamp is forced upon or against the upper on the last by the movement of the lever c .
70 The toe-rest e , pivoted upon the lever c at e^2 , has a concaved face to fit the upper near the toe of the last. To firmly clamp the toe of the upper against the last and guard the upper so that it cannot be injured by the needle of the
75 sewing-machine or the upper become accidentally moved on the toe of the last during sewing, I have produced the thin metallic toe-clamp f , which is pivoted at g upon the link h , in turn pivoted at i on the lever k , the latter
80 having its fulcrum, as herein shown, on the pin e^2 , common to the toe-rest. The lever k is acted upon by a spring, k^2 , which keeps the acting edge of the toe-clamp and guard f pressed toward and against the toe of the upper,
85 and by reason of the pivots g i the said toe-clamp is free to rock and to move laterally with relation to the last, to thus enable the clamp to firmly hold the toe of the upper and last whether for a right or left foot.
90

By means of the devices shown and described the upper m may be fitted to and held clamped firmly against the last while its out-turned edges are being stitched to the sole n in a sewing-machine, or by hand-sewing, after
95 which the projecting edges of the upper and sole are trimmed off, making a shoe such as shown in my Patent No. 254,594, the turning of the screw b^6 or "lever-adjusting" device, as I shall call it, determining the extent of the pressure of the spring-clamp and toe-rest upon the upper and last.
100

Instead of screw b^6 , I might employ any other well-known equivalent device.

I claim—

5 1. The standard b^2 , to hold the last, combined with the lever c , means to move it, and with the spring-clamp to act upon the upper over the top of the last, as shown, between its toe and instep, substantially as described.

10 2. The standard b^2 , to hold the last, the lever c , and lever-adjusting device, combined with the block and toe-rest, substantially as described.

3. The standard to hold the last, the lever, the lever-adjusting device, and spring-clamp to fit the upper to the last, combined with the

toe-clamp, substantially as and for the purpose 15 described.

4. The lever k and projected toe-clamp, combined with the last, standard b^2 , lever c , and lever-adjusting device, substantially as described. 20

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

ELI BERTRAND.

Witnesses:

G. W. GREGORY,
W. H. SIGSTON.