

J. A. DOW,
HEEL SEAT EXTENSION FOR LASTS.
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976,788.

Patented Nov. 22, 1910.

Fig. 1.

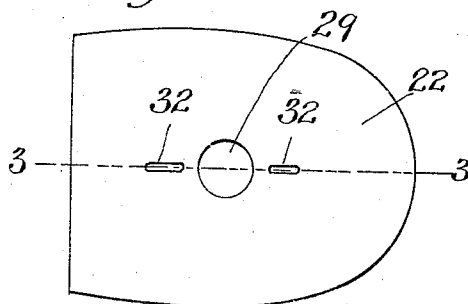


Fig. 2.

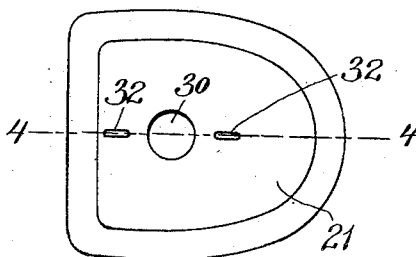


Fig. 3.

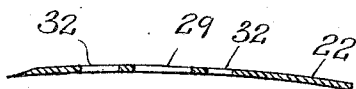


Fig. 4.

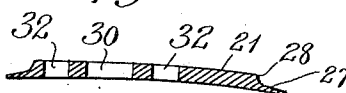


Fig. 8.

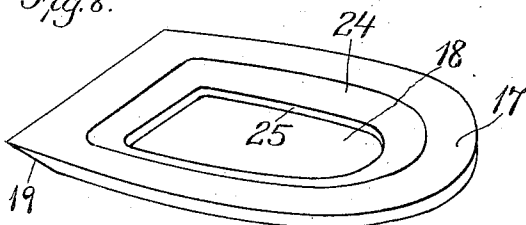


Fig. 5.

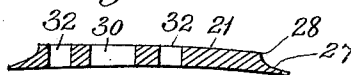


Fig. 6.

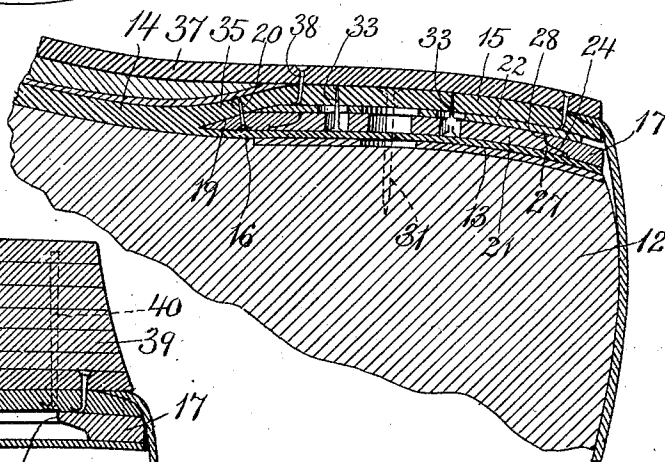
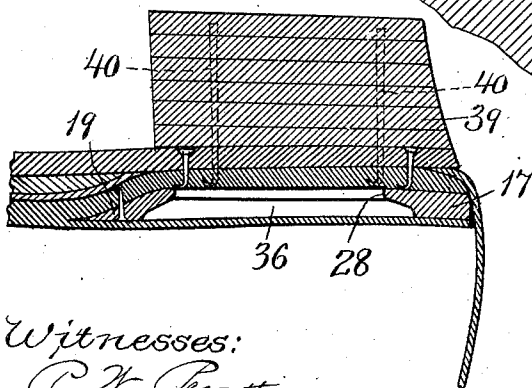


Fig. 7.



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UNITED STATES PATENT OFFICE.

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HEEL-SEAT EXTENSION FOR LASTS.

976,788.

Specification of Letters Patent.

Patented Nov. 22, 1910.

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To all whom it may concern:

Be it known that I, JOSEPH A. Dow, of Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Heel-Seat Extensions for Lasts, of which the following is a specification.

This invention relates to a last for making a boot or shoe having an internal elastic heel cushion located above the rigid portion of the heel of the shoe instead of forming the tread portion of the heel, the heel portion of the innersole of the shoe being offset below the highest part of the shank portion to form the bottom and front end wall of a recess adapted to contain an elastic cushion, the upper portion or foot supporting surface of which is substantially flush with the highest part of the shank portion of the innersole.

The invention consists in a heel seat extension having an attachment for an ordinary last and enabling a shoe having the above-mentioned cushion pocket to be made on the last.

Of the accompanying drawings forming a part of this specification, Figures 1 and 2 represent plan views of the parts or members of a heel-seat extension embodying my invention. Fig. 3 represents a section on line 3—3 of Fig. 1. Fig. 4 represents a section on line 4—4 of Fig. 2. Fig. 5 represents a modification of the part shown in Fig. 4. Fig. 6 represents a longitudinal section of the heel portion of a partially completed boot or shoe constructed in accordance with my invention. Fig. 7 represents a longitudinal section of the heel portion of the completed boot or shoe. Fig. 8 represents a perspective view of the curb lift.

The same reference characters indicate the same parts in all the figures.

In the drawings, 12 represents the heel portion of an ordinary last which is or may be provided with the usual metallic bottom plate 13, although the latter is not essential to the purposes of my invention.

Taking an innersole 14, the heel portion of which has a bottom layer 15, which in the completed shoe forms the bottom of a cushion pocket, and a top layer 16 which forms a cover for a cushion inserted in said pocket, said layers being formed either by splitting the heel portion of the innersole, or otherwise, I interpose between said layers 15 and

16 a curb lift 17, the margin of which is heel-shaped, while the center is cut away to form an opening 18, the margin of which constitutes the wall or edge boundary of the cushion pocket. In case the heel portion of the innersole is not split, the curb lift is applied above the heel portion of the innersole. The outer side of said lift is beveled at the front end of the lift to form an incline 19. The beveled portion of the curb lift 17 is preferably secured to the corresponding portion of the innersole either by a tack 20, or by stitches or cement. To the curb lift 17 I apply temporarily a heel-seat extension, which, in effect, constitutes a part of the last although it is not secured thereto, and is adapted to be applied and removed by the operator. Said extension is preferably composed of two parts or members, 21 and 22, which are made in separate pieces and are separable from each other. The part 21 constitutes a rigid filler for the opening 18 in the curb lift, said filler being a metal plate of substantially the same thickness as the curb lift, and having its margin formed to accurately fit the margin of the opening 18. Preferably, the margin of the opening 18 is enlarged to form a seat 24 which is inclined outwardly from an abutment or wall portion 25, the filling portion 21 having a flange 27 conforming to the enlarged portion 24, and a shoulder 28 conforming to the abutment or wall 25. The part or member 22 of the heel-seat extension is preferably a relatively thin heel-shaped plate of greater area than the filler 21, and formed to bear on the outer side of the latter, and to project over the outer side of the curb lift, as shown in Fig. 6. The parts 21 and 22 are provided with central orifices 29 and 30, through which an attaching nail 31 may be driven to secure the heel portion of the outersole to the last. The parts 21 and 22 are also provided with longitudinal slots 32 which coincide and are adapted to receive fastenings such as tacks 33, the heads of which are wider than the slots, said tacks being driven through the slots into the portion 15 of the innersole, as shown in Fig. 6. The tacks and slots permit slight edgewise adjustments of the parts of the extension relatively to the innersole. The chief object of this adjustability of the extension parts is to enable them to be moved forward or backward to compensate for variations in the stretch of the stock and to

enable the laster to accurately fit the parts in accordance with the stretch.

In practice, the heel-seat portion is preferably applied in the manner described to the innersole in the stock-room of a shoe factory before the lasting operation. When the laster applies the innersole to the last, he is enabled by means of the slots 32 to make such adjustment of the heel-seat extension as may be desirable in view of the stretch of the upper and innersole.

The innersole, with the cushion curb and heel-seat extension applied to it as described, is taken by the laster and placed upon the last and temporarily secured thereto by the nail 31, after which the innersole is conformed to the cushion curb and the heel-seat extension by a suitable leveling or pressing operation which imparts an incline to the portion 35 of the innersole between the rear portion 15 and the shank portion thereof, the rear portion 15 being offset from the bottom of the last so that it is adapted to subsequently form the bottom of the cushion pocket 36 shown in Fig. 7. The outersole 37 is next applied and its heel portion is secured to the offset heel portion of the innersole by short nails 38 which are clenched upon the part 22 of the heel-seat extension. The usual leather heel 39 is then applied, the heel-attaching nails 40 being also clenched upon the part 22 of the heel-seat extension. After the heel has been applied, the heel-seat extension is released from the innersole by the withdrawal of the tacks 33, and is then withdrawn from the cushion curb, leaving the cushion pocket vacant and ready for the reception of a suitable elastic heel cushion shaped to conform accurately to said pocket. In removing the heel-seat extension, the rear portion of the cushion curb is swung outwardly to permit the withdrawal of the clenching part 22, the cushion cover 16 being displaced to permit the withdrawal of the filling part 21 from the opening in the curb in case a split innersole is employed.

The above described two-part construction of the heel-seat extension is preferred by me because it permits the employment of a clenching part 22 which is of greater area than the filling part 21. If desired, however, the heel-seat extension may be made in a single piece of thickness equal to the combined thickness of the two parts 21 and 22, as shown in Fig. 5.

From the foregoing it will be seen that

my invention is embodied solely in a heel seat extension for a last adapted to be used as described to form a cushion-receiving pocket.

I claim:

1. A heel-seat extension for lasts comprising a filling portion having an area considerably less than that of the heel seat of a last whereby said filling portion may occupy an opening in a cushion-confining lift, and an outer clenching portion, said extension being separable from the last with which it is used.

2. A heel-seat extension for lasts comprising a filling portion having an area considerably less than that of the heel seat of a last whereby said filling portion may occupy an opening in a cushion-confining lift, and an outer clenching portion, said extension being formed in two parts which are separable from each other and from the last with which they are used.

3. A heel-seat extension for lasts comprising a filling portion having an area considerably less than that of the heel seat of a last whereby said filling portion may occupy an opening in a cushion-confining lift, and an outer clenching portion, said extension being separable from the last with which it is used, the extension being provided with fastener-engaging means which permit adjustment of the extension relatively to the last and parts of the boot or shoe thereon.

4. A heel-seat extension for lasts comprising a filling portion having an area considerably less than that of the heel seat of a last whereby said filling portion may occupy an opening in a cushion-confining lift, and an outer clenching portion, said extension being formed in two parts which are separable from each other and from the last with which they are used, said parts being provided with coinciding longitudinal slots, adapted to receive fastening devices.

5. A heel-seat extension for lasts, separable from the last with which it is used, said extension having an area considerably less than that of the heel-seat of such last, the entire margin of said extension having an outwardly extending flange, substantially as and for the purpose set forth.

In testimony whereof I have affixed my signature, in presence of two witnesses.

JOSEPH A. DOW.

Witnesses:

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ARTHUR H. BROWN.