

Nov. 18, 1941.

F. A. PARKHURST

2,263,186

• HEEL

Original Filed March 23, 1939

2 Sheets-Sheet 1

Fig. 1

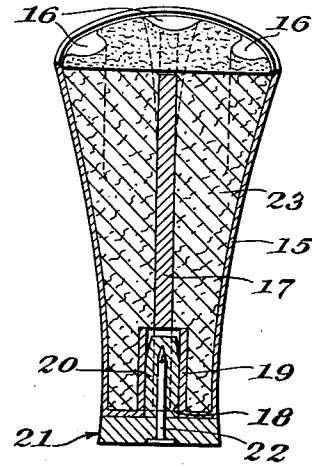
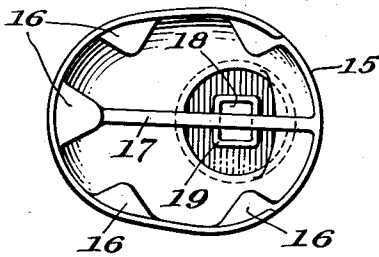


Fig. 5

Fig. 2

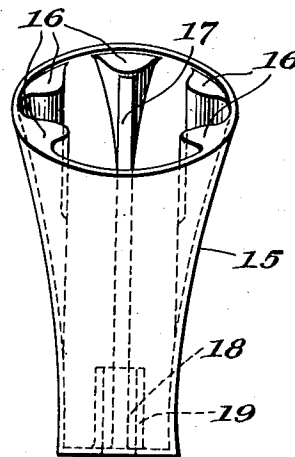
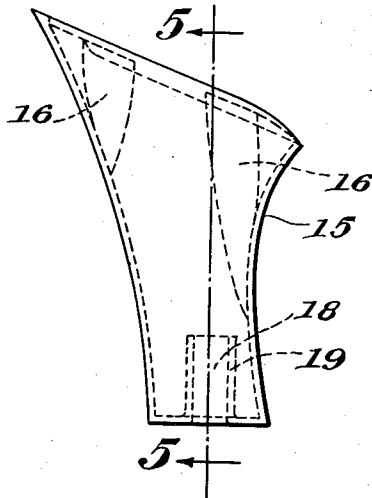
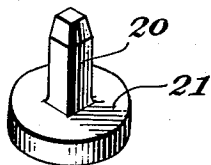


Fig. 3

Fig. 4



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Fig. 6

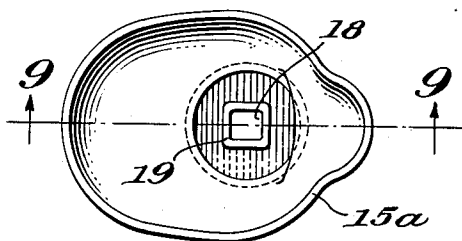


Fig. 9

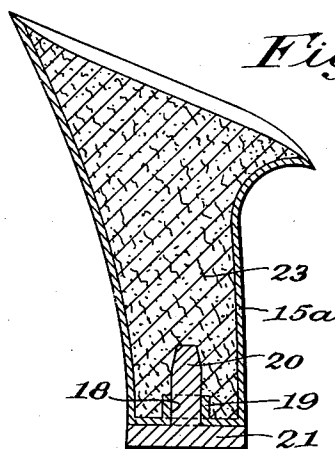


Fig. 7

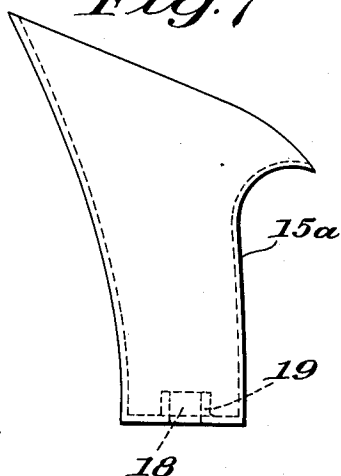


Fig. 8

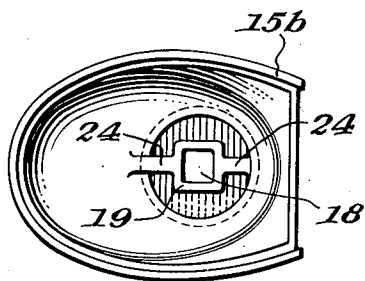
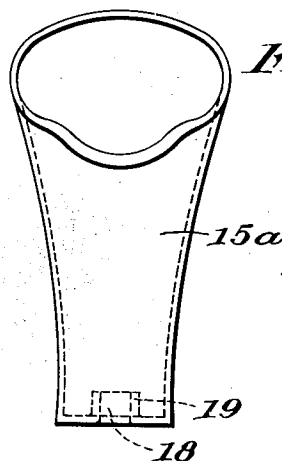


Fig. 10

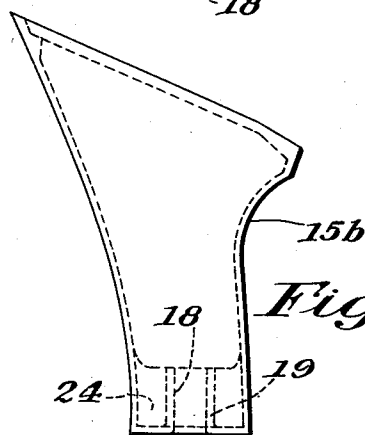


Fig. 11

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UNITED STATES PATENT OFFICE

2,263,186

HEEL

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corporation of Delaware

Original application March 23, 1939, Serial No.
263,619. Divided and this application July 8,
1939, Serial No. 283,416

1 Claim. (Cl. 36-42)

This invention relates to boot and shoe heels and has for its general object to provide a light, inexpensive and durable heel of attractive appearance which can be readily molded by well known means and methods from suitable plastic materials, and which is provided with a normally securely retained but detachable and replaceable toplift. The present case is a division of my prior application filed March 23, 1939, Serial No. 263,619, which contains claims covering certain features of the heel per se not claimed herein.

The more particular objects of the invention, together with means whereby the latter may be carried into effect, will best be understood from the following description of certain illustrative embodiments thereof shown in the accompanying drawings, these, however, having been chosen for purposes of exemplification merely, it being obvious that the invention, as defined by the claim hereunto appended, may be otherwise embodied without departure from its spirit and scope.

In said drawings:

Figs. 1, 2 and 3 are a plan view, side elevation and front elevation, respectively, of a heel embodying the invention, the toplift being omitted.

Fig. 4 is a perspective view of a toplift for use with the heel illustrated in the preceding figures.

Fig. 5 is a section on the line 5-5 of Fig. 2, showing the toplift in place, and illustrating a further development.

Figs. 6, 7 and 8 are views similar to Figs. 1, 2 and 3, respectively, illustrating a modification.

Fig. 9 is a section taken substantially on the line 9-9, Fig. 6, of the completed heel.

Figs. 10 and 11 are views similar to Figs. 6 and 7, respectively, of a further modification.

Referring to Figs. 1 to 3, the heel therein shown comprises a hollow shell 15 die cast or molded in accordance with well-known methods from a suitable plastic material or composition having the requisite strength, density and hardness, such, for example, as cellulose acetate molding compositions, molding resins, the vinyl acetals and chlorides, styrene, etc. Adjacent its upper or heel seat end, where the heel or shell is the largest in cross section, it is stiffened and strengthened by vertical reinforcing ribs 16. Said heel or shell is further stiffened by a vertical reinforcing web 17 which extends completely across the same from front to back for substantially its entire height and is preferably joined at at least one end to one of the ribs 16.

At its lower end the heel or shell is formed with a socket comprising an opening 18 in its bottom wall, said opening being of smaller cross-sectional area than that of the interior of the heel, and being surrounded by an intumed flange or wall 19 which, in the construction shown, is reinforced by the web 17.

The socket 18-19, which is of square or other non-circular form, is adapted to receive the similarly shaped shank or stem 20 (Figs. 4 and 5) of a toplift 21, preferably molded from the same material as that of the shell or heel proper. The stem or shank 20 is formed integral with the toplift 21 and may, if desired, be reinforced by an embedded metallic element, such as a nail 22, Fig. 5. The stem or shank 20 is of such size and shape as to fit sufficiently snugly into the socket 18-19 to retain the toplift in place during normal conditions of use while permitting said toplift to be removed and replaced when necessitated by wear without the use of special tools. The retention of the shank 20 in its socket may be rendered more secure by applying a coating of rosin, powdered pumice, or other frictional material.

It will be understood that the shell 15 will be formed of a sufficiently hard, dense plastic material to give the same, when molded, the requisite durability and surface smoothness. If desired, the heel may be further strengthened and reinforced by filling said shell with an inferior or softer plastic material as shown at 23 in Fig. 5. Such plastic material may be, for example, the plastic composition described in the patent to Griffiths, No. 1,838,618, December 29, 1931, or a material similar to that commonly employed for filling shoe bottoms and composed of ground cork and suitable binder, such as phenol resin.

When a filler 23 is employed, the reinforcing ribs 16 and web 17, may in some instances be omitted, as in the case of the shell 15a shown in Figs. 6 to 9, although the walls 19 of the socket for receiving the toplift shank 20 are preferably strengthened and braced by a short reinforcing web 24, as in the case of the shell 15b shown in Figs. 10 and 11.

I claim:

A boot or shoe heel comprising a hollow shell of molded plastic material having a socket and a transverse web reinforcing said socket, and a toplift having a shank received in said socket to retain the same in place.

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CERTIFICATE OF CORRECTION.

Patent No. 2,263,186.

November 18, 1941.

FREDERIC A. PARKHURST.

It is hereby certified that error appears in the printed specification of the above numbered patent requiring correction as follows: Page 1, first column, line 52, before "reinforcing" insert the word --transverse--; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 30th day of December, A. D. 1941.

Henry Van Arsdale,
Acting Commissioner of Patents.

(Seal)