July 10, 1945. J. KARP 2,380,050

ATTACHABLE SHOE CAP OF PLASTIC MATERIAL

Filed May 26, 1944

Fig. 1

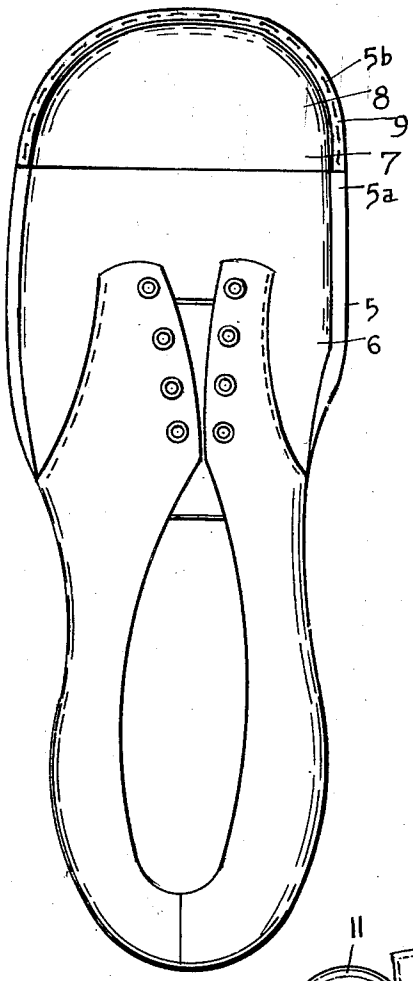


Fig. 2

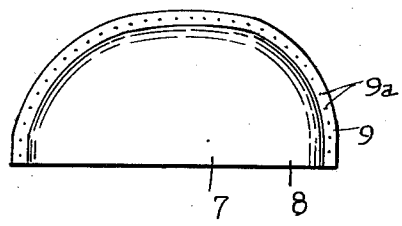


Fig. 3

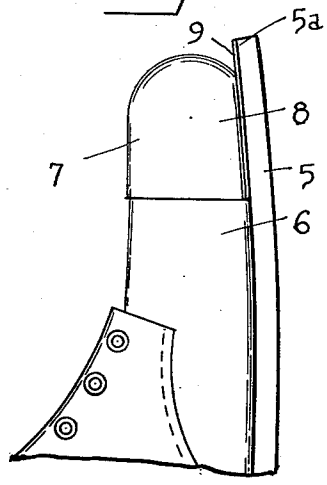


Fig. 4

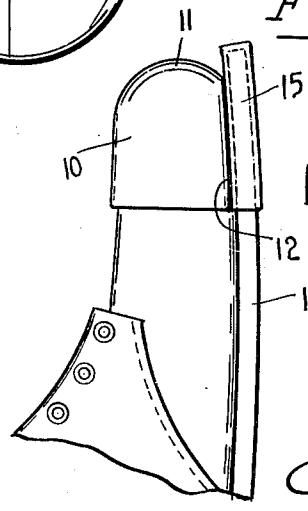
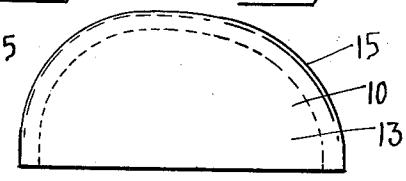


Fig. 5



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Patented July 10, 1945

2,380,050

UNITED STATES PATENT OFFICE

2,380,050

ATTACHABLE SHOE CAP OF PLASTIC MATERIAL

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Application May 26, 1944, Serial No. 537,431

2 Claims. (Cl. 36—72)

This invention relates to an attachable toe cap for shoes and one of its objects is to provide a toe cap which may be attached on any shoe of the same size, during any stage of the manufacture or use of the shoe, but it is more particularly designed to provide a shoe toe cap for children's shoes, which is molded to closely conform to the shape and size of the shoe, and which may be attached to the shoe by stitching, nailing, stapling or by cementing.

A further object of the invention is to provide an attachable toe cap for shoes, which will be made of plastic material, and which can be molded, embossed and otherwise finished to produce desirable styling effects, or which may be made along lines of extreme simplicity, and which will, when attached, be united to the shoe welt by special stitching or cementing, or otherwise, without disturbing the existing stitching or construction of the upper and the sole.

A still further object of the invention is the provision of an attachable shoe toe cap, which can be united to the shoe welt, and which will also provide a wear piece for the tip of the sole.

With the above and other objects in view the invention consists in certain new and useful constructions, combinations and arrangements of parts, clearly described in the following specification, and fully illustrated in the drawing, in which:

Fig. 1 is a plan view of a child's shoe provided with the improved attachable plastic shoe toe cap.

Fig. 2 is a plan view showing the improved attachable plastic cap removed from the shoe.

Fig. 3 is a fragmentary side view showing the cap in position on the shoe.

Fig. 4 is a similar view, showing a modified form of the attachable plastic shoe cap in position on the shoe, and providing a wear piece for the tip of the sole.

Fig. 5 is a bottom plan view of the modified attachable shoe cap shown detached from the shoe.

Referring to the accompanying drawing illustrating the practical construction of the invention **5** designates the sole of a child's shoe and **6** the upper thereof. Over the toe of the shoe I show my improved toe cap **7**. This cap is formed with a molded dome or hood portion **8** and with an attaching flange or rim **9**, which is formed with stitch holes **9a**, and which is directly secured to the shoe welt **5a**, by means of the stitching **5b**.

In attaching the improved plastic shoe cap to the shoe the meeting faces of the shoe welt and the marginal flange or rim **9** may be coated with plastic cement, or any other type of cement, and heat applied thereto, and then the welt stitching completed through the united flange and welt, so as to reinforce the cement union.

The attachable plastic cap may be given any color or styling treatment, and embossed or otherwise finished according to any plain pattern or decorative scheme.

The plastic used may be any material suitable for the purpose, and is preferably of the type known as laminated or textile plastics, which is made up of layers of woven cloth impregnated with plastic material, so that the entire mass is bonded into a single unit. The fibres of the cloth give tensional strength to the completed sheet material, and also improve its resistance to wear, and the reinforced plastic sheet may be molded to any desired form.

The attachable plastic shoe cap may be used on any shoe, new or old, to give increased strength and wearing qualities to the shoe, or to give different styling effects than the original design and manufacture of the shoe presented.

In Figs. 4 and 5 I show an attachable shoe toe cap **10**, consisting of the hood part **11**, the welt engaging rim **12**, and the wear plate or piece **13**, which underlies the tip of the sole **14**. The wear plate or piece **13** is united to the rim **12** by means of the edge portion **15**, which also forms a wear absorbing surface for the forward edge portion of the sole.

In this modified construction the cap thus provides a sheath for the entire forward end of the shoe, including a toe cap, a wear plate for the sole tip, and a connecting intermediate portion for taking up wear thrusts imposed on the forward edge of the sole.

As in the former construction, the toe cap and sheath or shield shown in Figs. 4 and 5, is constructed of molded plastic material, including laminated plastic, consisting of a plurality of layers of cloth and a bonding of plastic or resinous material, the whole forming a tenacious, brilliant, and adaptable form, conforming to the shoe style and fit, and united by plastic or other cement thereto to form an essential part of the shoe itself.

In both forms of the invention the attachable shoe toe cap may be coated on the inner surface with a thermo setting plastic film, and the shoe also coated with a plastic film which will unite with the inner film of the shoe cap, adhesion being accomplished between the treated engaging surfaces by the application of heat and pressure.

In addition the welt stitching may be employed in each form of the invention, as it serves not only to bind the shoe welt to the toe cap, but also to continue the line of welt stitching along the marginal edges of the toe cap, so that the toe cap appears to form an original part of the shoe and is completely blended with it.

Having described my invention I claim as new:

1. An attachable shoe cap consisting of a shield constructed to enclose the toe of a shoe, the side edges of the forward part of the sole and the undersurface of the sole and having a thermo setting film on its inner surface adapted to be cemented directly to the shoe on which the shoe cap is placed.

2. An attachable shoe cap formed of fabric reinforced plastic material molded to fit the toe of a shoe and provided with a welt engaging marginal flange and having a film of thermoplastic material on its inner surface whereby the shoe cap can be cemented directly to the shoe in the presence of heat.

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