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E. HAAS

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SIDE GUARD FOR SHOES

Filed March 11, 1930

Fig. 1.

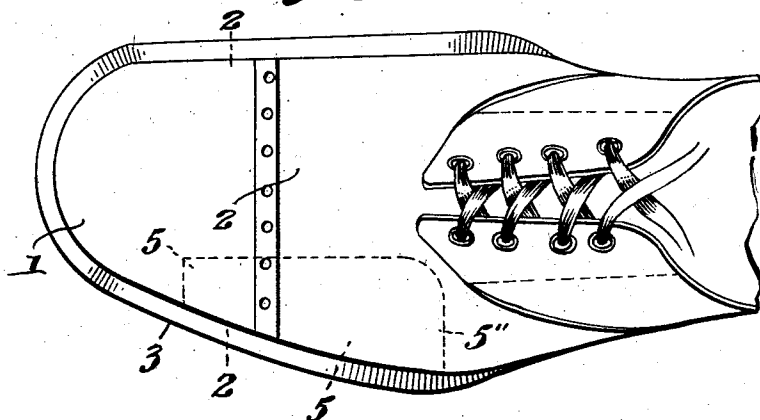


Fig. 2.

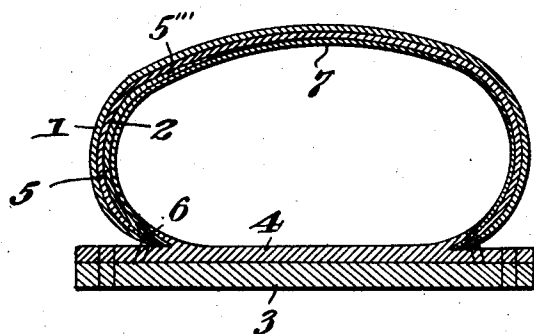
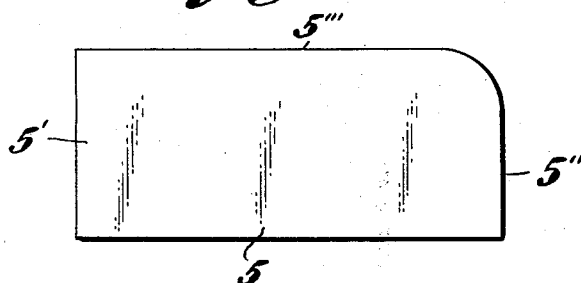


Fig. 3.



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UNITED STATES PATENT OFFICE

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SIDE GUARD FOR SHOES

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This invention relates to an improved guard built into a shoe and located inside of the shoe between the vamp, and lining and box in position to protect the smaller toes of the wearer.

The guard finds particular usefulness in connection with those boots or shoes worn by workmen, miners, and others whose feet are subject to injury from contact with heavy objects or falling rock and other materials.

The object of the invention is to provide a guard which will be so related to the ordinary cap or box of the shoe that, while possessing ample flexibility and adaptability to rock and not to interfere with the flexibility of the shoe and the comfort of the wearer, will adequately protect the smaller toes of the wearer of the shoe, leaving the protection of the larger toes and the great toe to the ordinary box or cap of the shoe.

My improved guard, which may be of leather, flexible metal, or fabric stiffened in any suitable manner, rosined, or processed, is connected at its lower edge to the insole of the shoe and extends between the vamp and box forwardly and rearwardly between the vamp and lining of the shoe, but is not connected at its forward and rearward ends, either to the box or vamp, although it may be attached along its upper inner edge to the vamp, if desired. This arrangement permits freedom for rocking or flexing so that there is no interference with the comfort of the wearer.

The lower edge of the protector guard is either nailed or stitched to the insole by a forwardly and rearwardly extending line of stitching or nailing or it may be just slipped between the insole and outer sole.

In the accompanying drawings:

Figure 1 is a plan view of a shoe provided with the guard, dotted lines representing the outline of the upper part of the guard;

Fig. 2 is a cross section on the line 2—2, Fig. 1; and

Fig. 3 is a detail view of the guard by itself.

The ordinary cap or box for the shoe appears at 1, the vamp is shown at 2, the sole appears at 3, and the insole is shown at 4.

The side guard or protector appears at 5, comprising a suitably thick, yet bendable or flexible piece of leather, thin metal, rosined or processed fabric, or other material adapted to afford the requisite stiffness and protection and yet have flexibility.

This guard is a separate and distinct piece from the ordinary cap or box 1 and the vamp 2 and it is located beneath the vamp and cap and extends from a point underneath the cap, rearwardly to a suitable distance beneath the vamp to cover and protect the smaller toes of the wearer of the shoe. The protector need only be connected to the shoe at its lower edge and may be either attached by stitches or nails to the insole, as shown at 6, or slipped between the soles.

It is a feature of the invention that the forward and rearward ends 5', 5'' of the protector be free from connection to the shoe to prevent the guard from interfering with suitable flexing of the shoe and in order to render the shoe comfortable to the wearer. However, if desired, the upper marginal part 5''' of the guard may be stitched to the vamp 2 but this is not necessary.

The lining is shown at 7.

What I claim is:

A shoe for workmen or miners, having an ordinary cap or box which protects the larger toes and the great toe and provided, in addition thereto, with a separate guard or stiffener which is located beneath the ordinary toe cap and over the lining and which comprises a suitably thick, yet bendable piece of material affording requisite stiffness and protection, with flexibility, said separate guard or stiffener extending in the direction of the length of the shoe and over the region of the vamp occupied by the smaller toes of the

wearer of the shoe and past and beyond the rear edge of the ordinary toe cap and also extending into the general central or median region of the vamp, the forward and rearward edges of said guard or stiffener being
5 free to permit rocking or flexing of the guard or stiffener for the purpose of preventing discomfort to the wearer, the lower edge of the guard or stiffener being located adjacent the sole part of the shoe.

10 In testimony whereof I affix my signature.
EDWARD HAAS.

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