

(No Model.)

J. H. & F. W. SCHOLDING.
SHOE PROTECTOR.

No. 515,173.

Patented Feb. 20, 1894.

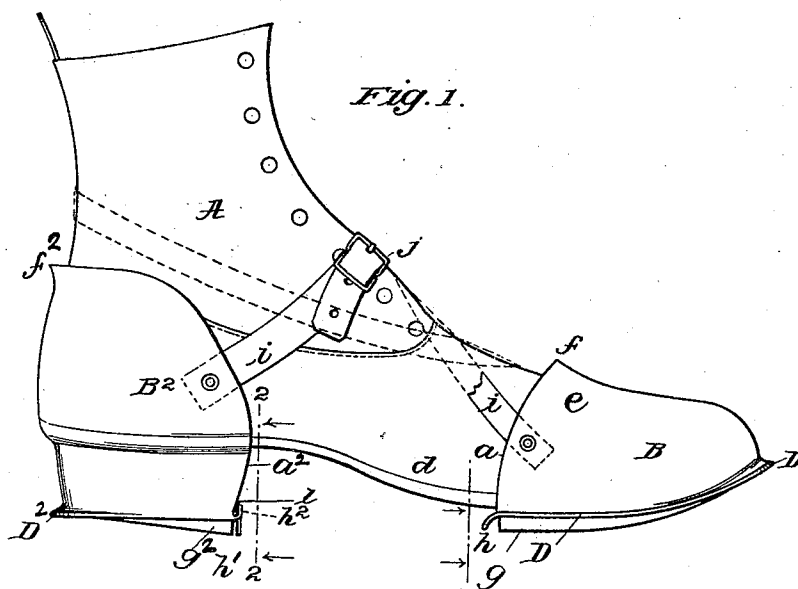


Fig. 2.

Fig. 3.

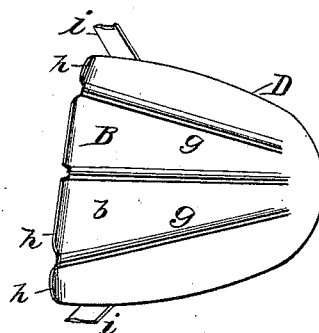
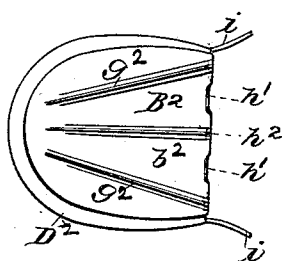
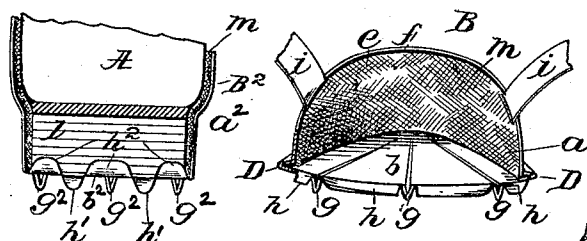


Fig. 4.

Fig. 5.



WITNESSES:

Edward Rowland.
Frank C. Wood.

INVENTORS:

John H. Scholding
and
Fred W. Scholding
by
J. F. Bourne
their ATTORNEY

BY

UNITED STATES PATENT OFFICE.

JOHN H. SCHOLDING AND FREDERICK W. SCHOLDING, OF YONKERS, NEW YORK.

SHOE-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 515,173, dated February 20, 1894.

Application filed May 6, 1893. Serial No. 473,211. (No model.)

To all whom it may concern:

Be it known that we, JOHN H. SCHOLDING and FREDERICK W. SCHOLDING, citizens of the United States, and residents of Yonkers, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Boot or Shoe Protectors, of which the following is a specification.

10 The object of our invention is to provide means for protecting the toe and heel portions of boots and shoes, being especially designed for the use of children while coasting on sleds, to enable them to steer the sled with
15 more certainty than with the unprotected shoes, while removing the wear on the shoe which always attends the steering of sleds by the feet, and also to enable the person wearing the protector to obtain a better footing or hold
20 upon snow and ice while walking.

The invention consists in a detachable protector adapted to be placed over the toe or heel portion of a shoe and provided with means for holding it in position on the shoe.

25 The invention also consists in the novel details of improvement and the combinations of parts that will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming part hereof, wherein—

30 Figure 1 is a side elevation of a shoe showing our protector applied to both the toe and heel of the shoe. Fig. 2 is a face view of the bottom or under side of the heel protector. Fig. 3 is a similar view of the toe protector. Fig. 4 is a partly broken face view of the heel protector, looking in the direction of the arrow 1 in Fig. 1, a portion of the shoe being in section on the line 2, 2, in Fig. 1; and Fig. 5
35 is a face view of the toe protector, partly in section, looking in the direction of the arrow 3 in Fig. 1.

40 In the drawings the letter A indicates a suitable shoe or foot covering to which our protectors are shown applied.

45 B is our shoe or boot toe protector and B² is the heel protector, they being made substantially alike excepting that they are ar-

50 ranged to fit upon different portions of a shoe or boot. Said protector B consists essentially of a hollow casing or the like, having one end or side *a* open to permit the entrance of the toe portion of the shoe or boot, as shown, the general outline of said protector substantially corresponding to the shape of said portion of
55 a shoe or boot.

The protector B has a tread portion *b*, to lie against the sole *d* of the shoe or boot, and the portion *e* of said protector that covers the toe portion of the shoe or boot is preferably made
60 outwardly flaring, as at *f*, so as to permit ready entrance of the shoe or boot and the free bending of the foot within the protector. At the junction of the portions *b* and *e* of the protector is provided an outwardly extend-
65 ing flange or rim D, which is utilized by the user as a means for obtaining a firm hold upon the snow while steering a sled by the foot.

The portions *b* and *e* of the protector may
70 be suitably joined together, but we find it advantageous to form the protector out of a single piece of material, say for instance, from thin metal suitably stamped or drawn to the desired form. When the protector is made
75 in this manner the flange or rim D may be made as in the section in Fig. 5, that is to say, pressed or swaged out, as shown. By this means a strong structure is produced without seams or rivets, and the flange or rim
80 D being integral with the portions *b* and *e* of the protector detachment of the flange will be prevented and leakage obviated.

We prefer that the tread portion *b* of the protector should be provided with ribs or
85 webs *g*, that preferably extend lengthwise of the shoe A, and incline from the inner portion of the protector toward the outer part, near the latter part vanishing down flush with the tread *b*, as indicated. The ribs or
90 webs *g* are preferably an integral portion of the tread *b*, and for this purpose when the tread is formed the ribs or webs *g* are produced by bending or swaging the material of the tread *b* to the desired shape, as in Fig. 5.
95 In this case the ribs or webs *g* will form open

gutters leading to the inner edge, or nearly so, of the protector, so that any melted snow under the sole or heel can pass away. But it is evident that the ribs or webs g can be suitably connected with tread b , as may be found most desirable. They are preferably arranged in diverging lines on the tread b of the protector as in Figs. 2, 3 and 5.

To further assist the person wearing the protector while walking on snow or ice, especially up hill, the inner edge of the tread b of the protector may be bent downwardly, preferably to form one or more projections h , h , of suitable width, as shown.

The protector may be provided with suitable means for detachably connecting it with the shoe or boot of the wearer, and for this purpose it is shown provided with a strap i having a buckle j , as in full and dotted lines in Fig. 1.

The toe protector B and the heel protector B^2 , are constructed substantially alike in all material respects, with such necessary changes as will enable one to fit upon the toe and the other upon the heel portion of a shoe or boot. The protector B^2 preferably has a flaring mouth f^2 at its upper portion, its opening or mouth a^2 being arranged to receive the heel portion of the shoe. The flange or rim D^2 on the heel protector is placed particularly at the rear lower part so that when the heel is used to steer a sled by a firm hold upon the snow can be obtained. At the forward part of the tread b of the heel protector may be placed upright projections or lugs (one or more) h^2 , which act to prevent the protector from slipping from the shoe or boot heel l .

The protector may be lined with a suitable soft material m , such as felt or wool, for the sake of warmth and comfort, and to prevent snow from collecting between the shoe and the protector.

It is evident that the portion e of the protector could be made of leather, rubber, cloth or other material and suitably joined to the tread b and rim D , but we prefer to make the entire device from a single piece of material, say thin metal.

Although both the toe and heel protectors are shown applied to a single shoe it is evident that they may be used separately, as for instance, a boy would probably wear the toe protector solely, as he usually steers a sled with the toe of his shoe, while a girl would probably use only the heel protector B^2 , as she usually sits upon a sled and steers with her heels. But with either or both the protectors applied the flange or rim D or D^2 will be found very useful as it will act somewhat as a rubber because it can take a firm hold upon the snow when a person is trying to steer a sled.

The protectors will be found very useful, as they will protect the shoe or boot from wear

as well as protecting the foot from injury in coasting. They can be worn with ordinary shoes or boots, or over rubber boots or overshoes. They are cheap to manufacture, simple in construction and easy to adjust upon the feet.

Having now described our invention, what we claim is—

1. A shoe or boot protector consisting of an imperforate casing having an opening for receiving a portion of a shoe or boot, one wall of the protector having a flaring end and an outwardly projecting flange or rim D arranged along the lower outer edge of the protector, and formed of two substantially contiguous webs substantially as described.

2. A shoe or boot protector consisting of a casing having a bottom or tread, a flange or rim extending outwardly along the lower outer edge, and ribs or webs arranged longitudinally on the bottom of the protector forming a continuous gutter and projecting downwardly therefrom, substantially as described.

3. A shoe or boot protector consisting of a casing having a tread or bottom, and downwardly projecting ribs or webs formed on said bottom from the same material which latter is pressed outwardly to form said ribs or webs into continuous gutters, substantially as described.

4. A shoe or boot protector consisting of a casing having an opening on one side, a flange or rim extending along the lower outer edge of the casing, and pressed out from the material of the casing and formed from two substantially contiguous webs, substantially as described.

5. A shoe or boot protector consisting of a casing having an upper portion, a tread or bottom and open on one side, the material at the edge of said tread under the opening being bent downwardly to form a projection, and an outwardly projecting flange extending from the lower edge of the casing, substantially as described.

6. A shoe or boot protector consisting of a casing having an upper portion, a tread or bottom and open on one side, the material at the edge of said tread under the opening being bent upwardly to form a projection, and an outwardly projecting flange extending from the lower edge of the casing, substantially as described.

7. A shoe or boot protector consisting of a casing made from a single piece of material and having an upper portion, a tread or bottom, and a horizontal flange or rim D pressed out from the meeting parts of the upper portion and tread, ribs or webs formed by double walls pressed from the tread and projecting downwardly, and a downward projection formed from the bent edge of the tread or bottom under the opening, substantially as described.

8. A shoe or boot protector, consisting of a

5 casing having an upper portion, a tread or bottom, and one side open, and ribs or webs projecting from the under side of the tread, extending longitudinally thereof and inclining from the inner edge of the tread upwardly and outwardly, substantially as and for the purposes specified.

Signed at Yonkers, in the county of West-

chester and State of New York, this 2d day of May, A. D. 1893.

JOHN H. SCHOLDING.

FREDERICK W. SCHOLDING.

Witnesses:

WM. H. FULLER,

WM. P. CONSTABLE.