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TOE IRON FOR SKI TIES

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Fig. 1.

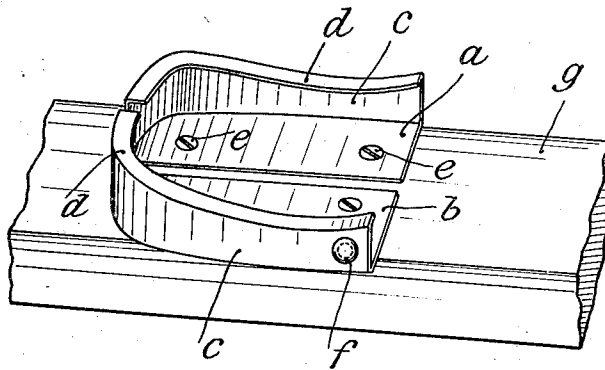
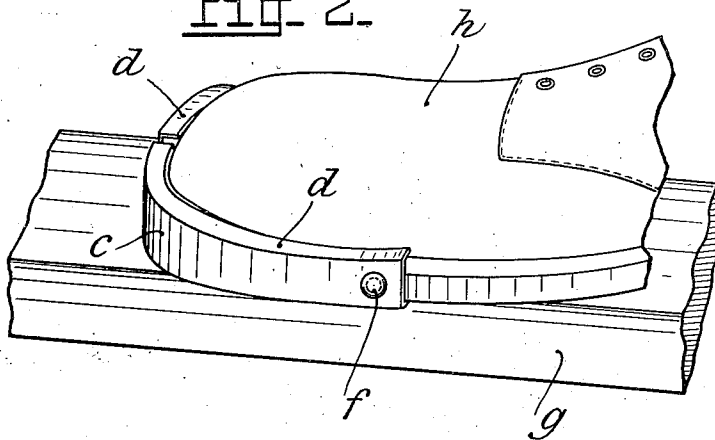


Fig. 2.



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TOE IRON FOR SKI TIES

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4 Claims. (Cl. 208—184)

The present invention relates to toe irons for ski ties and it is the main object of the invention to so arrange the toe irons that they will prevent the snow from penetrating below the front edge of the shoe sole.

When toe irons of the types hitherto known are used snow is little by little pressed in below the shoe sole and there form a lump of ice which interferes with the vertical movements of the shoe. The ice lump presses the sole upwardly and the iron ears situated over the sole will little by little tear the sole too much and at the same time the shoe loses its shape the front part being bent upwardly.

The present invention aims at removing these drawbacks, and consists mainly therein that the upwardly projecting side parts of the toe irons extend forwardly along the curve corresponding to the outer edge of the shoe sole and so surround the front part of the sole that snow is substantially prevented from passing in below the sole. Although the two sections forming the toe iron are slightly spaced apart at the forward portion thereof, this space is insufficient to allow any appreciable amount of snow to enter and form an ice lump under the sole of the shoe.

Further said side portions of the toe irons may, according to the invention, along their entire upper edge be provided with an inwardly extending flange which embrace the edge of the sole and thereby distributes the stress along the entire toe portion.

The annexed drawing illustrates by way of example an embodiment of the invention.

Fig. 1 is a side view of the toe irons mounted upon a ski and

Fig. 2 is a similar view showing part of a shoe inserted in said irons.

The horizontal plate-shaped portions *a*, *b* of the toe irons are secured to the upper side of the ski *g* by means of screws *e*.

Each of the toe irons *a* and *b* is provided with vertical side portions *c* which extend forwardly along a curve corresponding to the shape of the outer edge of the sole.

As the sole is somewhat curved in its longitudinal direction the portions *c* are somewhat higher at the front end of the toe irons than at the rear end, to provide for the space necessary for the vertical movement of the front part of the sole.

Along their top the portions *c* are provided with an inwardly extending flange *d*, which prevents the shoe *h* from being removed from the toe irons in vertical direction.

Somewhat in front of the rear end of the toe irons the portions *c* and the flange *d* thereon are curved a little downwardly in order to se-

cure a firm engagement with the shoe sole at the tilting point thereof.

At the rear part of the portions *c* are arranged pins *f* or holes for attachment of a usual rear strap (not shown) which serves to maintain the shoe in position between the toe irons.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:

1. A ski toe iron consisting of a vertical side member having a horizontal flange thereon adapted to engage the upper surface of a shoe sole, the flange being curved a little downwardly at a point somewhat in front of the rear edge of the iron and being curved upwardly from this point to the rear edge of the iron to provide a space between the horizontal flange at the rear of the iron and the top of the ski to permit slight raising of the shoe sole from the ski at this point.

2. Toe irons for ski ties having horizontal portions for attachment to the upper side of the ski, vertical side portions on said horizontal portions extending forwardly along a curve corresponding to and embracing substantially the entire front portion of the outer edge of the shoe sole toe portion, and an inwardly extending flange at the entire upper edge of said side portions for the purpose of substantially preventing snow from creeping into the space between the bottom surface of the shoe sole tip and the top surface of the ski.

3. Toe irons for ski ties consisting of two cooperating halves, each having a horizontal portion for attachment to the upper side of the ski side by side of the other half, a vertical side portion on said horizontal portion extending forwardly along a curve corresponding to and embracing the entire front portion of the outer edge of the respective lateral half of the shoe sole toe portion, and an inwardly extending flange at the entire upper edge of said side portion, constructed in such a manner that the said halves in combination substantially prevent snow from creeping into the space between the bottom surface of the shoe sole tip and the top surface of the ski.

4. A ski toe iron comprising two cooperating halves each consisting of a vertical side member having a horizontal flange thereon adapted to engage the upper surface of a shoe sole, the flange being curved a little downwardly at a point somewhat in front of the rear edge of the iron and being curved upwardly from this point to the rear edge of the iron to provide a space between the horizontal flange at the rear of the iron and the top of the ski to permit slight raising of the shoe sole from the ski at this point.

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