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2,498,085

SHOES TO BE USED ON SKIS

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Fig. 1.

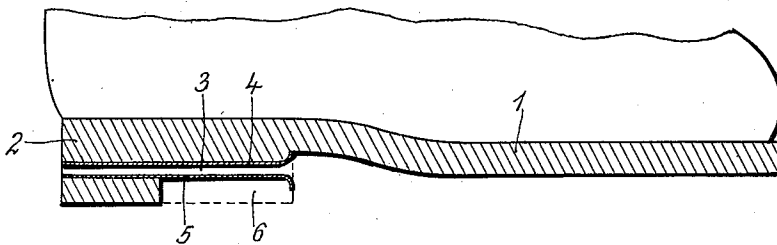
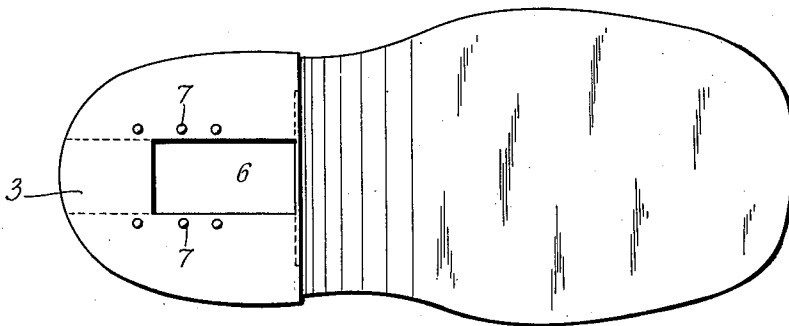


Fig. 2.



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SHOES TO BE USED ON SKIS

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In Norway July 18, 1947

5 Claims. (Cl. 36—2.5)

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The present invention relates to certain improvements in shoes to be used on skis. The shoe according to the invention is of that type which is especially built to be used when practicing slalom or jumping and when it is desired to hinder any substantial swinging movement of the heel of the shoe in relation to the ski.

For the above purpose one may adapt a ski binding which in addition to means for fastening the front part of the sole of the shoe to the ski, also comprises means on the ski for attaching the rear part of the sole of the shoe, or in other words the heel to the shoe.

Such means are described in a co-pending application for patent, Serial No. 47,070, filed August 31, 1948, and may comprise a strong leaf steel blade or the like comprising a rear binding member, extending upwards and rearwards on the ski, a short distance behind the binding means for the front end of the shoe. Such binding in itself is, however, no part of this invention.

The object of this invention is to provide a shoe which will be especially adapted for the above mentioned purpose, and to this end the invention consists in improvement in shoes adapted to be used on skis, characterized by the fact that means are provided under the rear part of the same, adapted to engage with the binding on the ski, and thereby to limit the lifting of the heel of the shoe from the same.

The invention may be given different embodiments and may for instance consist in the arrangement of a channel in the longitudinal direction through the heel of the shoe, this channel being adapted to receive the end of the rear binding means when the shoe is pushed forward in engaging the ski-binding. The said channel may preferably be arranged open in both ends, so that it is easy to remove snow or ice from the same.

A further object of the invention is to provide means so that the heel of the shoe, if desired, may be free. This is done according to the invention by arranging a groove in the heel of the shoe below the channel, adapted to receive the rear binding or holding means if said binding is out of action.

In order that the invention may be easily understood and applied, it will in the following be described with reference to the drawing, illus-

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trating a preferred embodiment of the invention as an example only.

In the drawing:

Fig. 1 is a longitudinal cross section through the sole and heel of a shoe.

Fig. 2 is a bottom plan view of the shoe shown in Figure 1.

In the drawing, 1 is the sole proper, 2 is the heel part of the same. 3 is a longitudinal channel arranged through the heel part of the sole. 4 and 5 are reinforcing steel plates or linings in the heel, outlining the channel 3. 7 are rivets adapted to hold the construction together, and 6 is a groove on the under-side of the heel, adapted to form a space for the ski binding when not in locking position in the channel.

In use, when the shoe is placed on the ski (not shown) and slid forward into the binding (disclosed in pending application Serial No. 47,070, filed August 31, 1948), the rear portion of said binding may be engaged in the channel 3 and tube 4 for slalom practice or for jumping. On the other hand, if the skier prefers that the heel be free of engagement with the binding, the heel will be lifted slightly as the shoe is slid into the ski binding, so that the rear portion thereof will not engage the channel 3 or tube 4, but will, instead, slide into the groove or slot 6 below said channel. The mouth or entrance of the channel tube 4 is flared as shown in Figure 1 to facilitate entry of the ski binding.

I claim:

1. Improvement in shoes adapted to be used on skis, characterized by the fact that means are provided under the rear part of the same, adapted to engage with the binding on the ski, and thereby to limit the lifting of the heel of the shoe from the same, the heel on the shoe being further provided with a groove adapted to receive the said fastening means on the ski binding when out of action.

2. A ski shoe for attachment to a ski binding, said shoe having a heel, a slot within the body of said heel for accommodating a ski binding, and means permanently affixed to said heel and bridging said slot within its depth for limiting vertical movement of said heel with respect to the ski, and thereby providing a lower recess to accommodate the ski binding when it is not positioned above said means.

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3. A ski shoe for attachment to a ski binding, said shoe having a heel, said heel having an open slot formed therein extending substantially throughout the thickness of the heel, means in said heel bridging said slot and dividing it into upper and lower portions, whereby a ski binding may be engaged in said heel above said bridging means when it is desired to limit vertical movement of said heel with respect to the ski, and engaged below said bridging means when it is not supported above it.

4. A ski shoe for attachment to a ski binding, said shoe having a heel, said heel having an open slot formed therein extending substantially throughout the thickness of the heel, and a tube in said slot dividing it into upper and lower portions, whereby a ski binding may be engaged in said tube when it is desired to limit vertical

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movement of said heel with respect to the ski, and engaged below said dividing means when it is not supported above it.

5. A ski shoe according to claim 4, in which the mouth of the tube is flared to facilitate entry of the ski binding.

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REFERENCES CITED

10 The following references are of record in the file of this patent:

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