April 9, 1940. P. J. KAIRIS 2,196,925

SKI

Filed April 24, 1939 2 Sheets-Sheet 1

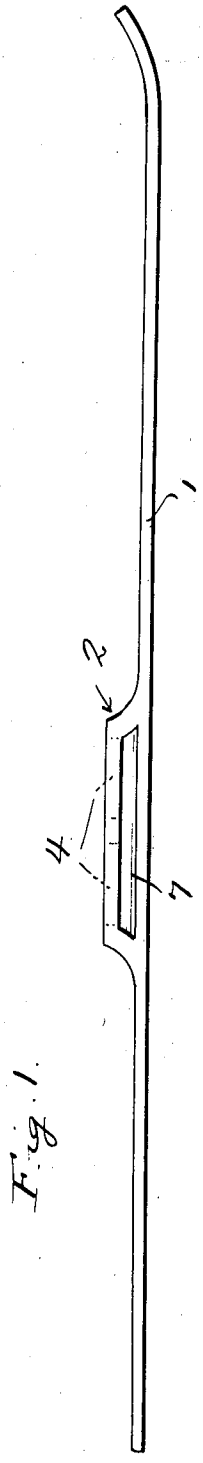


Fig. 1.

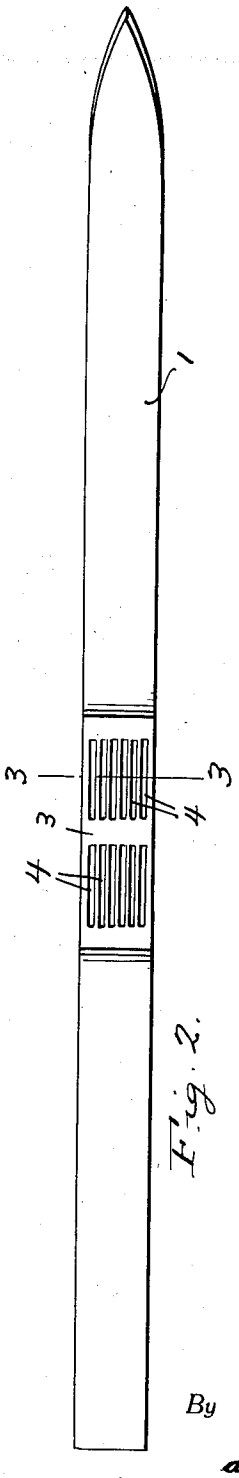


Fig. 2.

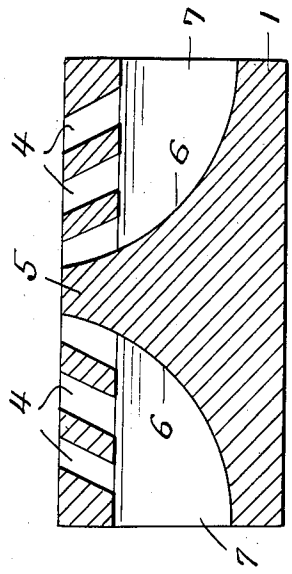


Fig. 3.

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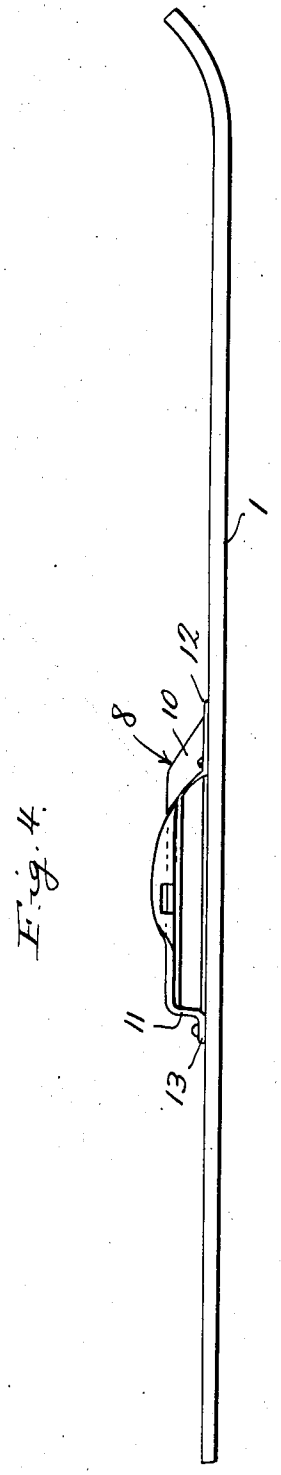


Fig. 4.

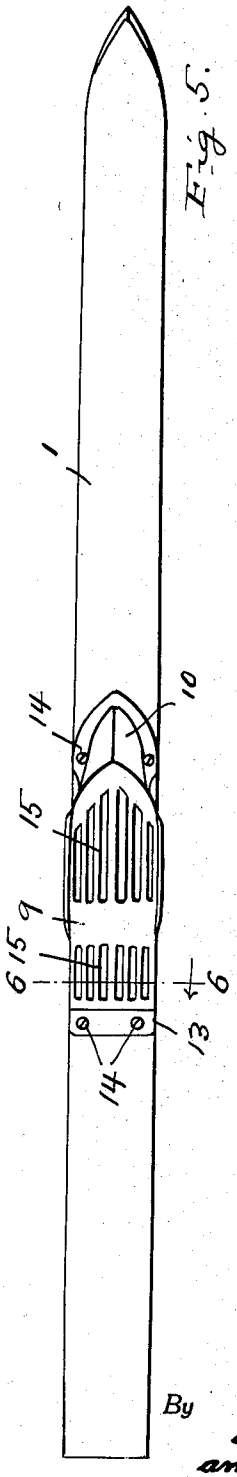


Fig. 5.

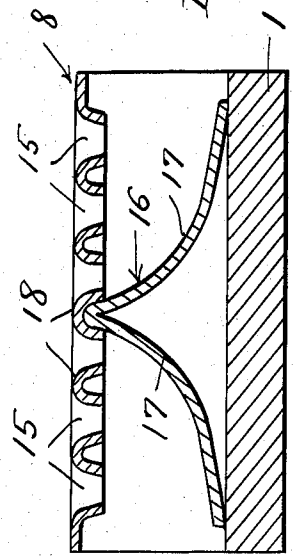


Fig. 6.

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UNITED STATES PATENT OFFICE

2,196,925

SKI

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Application April 24, 1939, Serial No. 269,749

7 Claims. (Cl. 280—11.13)

This invention relates to skis, and an object of the invention is to provide a ski so constructed or equipped to accommodate the foot in a manner to eliminate packing of snow under the foot and forming, as now generally results, a hard lump under the toe and heel making the use of skis impractical for travelling any material distance; to insure better footing for the skier enabling him to have full control of the skis at all times therefore eliminating fatigue to a material extent; and to provide for the resting of the foot on the ski in a manner to prevent slippage of the foot relative to the ski.

The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawings wherein:

Figure 1 is a side elevational view showing one form of ski constructed in accordance with the present invention.

Figure 2 is a top plan view of the ski.

Figure 3 is a sectional view taken substantially on the line 3—3 of Figure 2.

Figure 4 is a view similar to Figure 1 and illustrating a modified form of the invention.

Figure 5 is a top plan view of the ski assembly shown in Figure 4, and

Figure 6 is a transverse sectional view taken substantially on the line 6—6 of Figure 5.

Briefly the invention consists in providing a ski having thereon a foot "deck" or rest to accommodate the foot together with a deflector positioned relative to the rest for directing the snow away from the foot and towards opposite sides of the ski.

In the form of the invention shown in Figure 1 the foot-rest or "deck" mounted on the ski 1 is indicated by the reference numeral 2 and is formed integral with the ski 1. The "deck" 2 is of a width corresponding to the width of the ski 1 and is of any suitable length. The platform portion 3 of the "deck" is provided with slots 4 preferably arranged as shown while the space between the platform 3 of the "deck" 2 and the body of the ski 1 presents a deflector 5 which in this form of the invention is formed integral with the "deck" 2 and the ski 1 and presents deflecting surfaces 6 which acts to direct the snow passing from the platform 3 of the "deck" through the slots 4 outwardly toward opposite sides of the ski 1 through elongated slots 7 provided at opposite sides of the "deck".

In actual practice the foot is secured on the "deck" 2 in any suitable manner, resting on the platform 3. The snow which would otherwise tend to accumulate between the platform 3 and the bottom of the foot, passes through the slots 4 and outwardly at opposite sides of the ski through the opening 7 being directed to and through said openings by the deflector 5 in an obvious manner. Thus it will be seen that there will be little, if any, likelihood of the snow packing between the bottom of the foot and the platform 3 of the "deck" 2. Hence the possibility of the foot slipping relative to the ski and/or "deck" or foot-rest 2; the packing of the snow between the platform 3 of the "deck" and the underside of the foot, and the present necessity of periodically removing the foot from the skis to clean the hard-packed snow therefrom are now all reduced to a minimum if not entirely eliminated.

In the form of the invention shown in Figures 4 to 6, inclusive, the "deck" therein indicated by the reference numeral 8 is constructed separately from the ski 1 and in the present instance is formed of metal or other suitable material bent, shaped and dimensioned to provide a raised platform 9 having at the front and rear thereof flanges 10 and 11 which terminate in lateral apertured attaching flanges 12 and 13 through the medium of which and screws or other fastening elements 14 the "deck" or shoe-rest is positively secured to the ski.

The flange 10 at the forward end of the "deck" is shaped as shown to act as a deflector for deflecting the snow to either side of the "deck" as the ski moves through the snow.

Also, in this form of the invention the platform 9 of the "deck" is provided with slots 15 through which the snow passes to be directed towards the sides of the ski through the medium of a deflector 16.

In this form of the invention the deflector 16 is made from a plate of metal or other suitable material bent into a substantial V and the wings of the V curved as shown to provide the deflecting surfaces 17—17.

As shown in Figure 6 in forming the slots 15 the portions of the metal struck from the platform are directed downwardly thus providing in alternation with the slots 15 gratings 18 that are substantially channel-shaped in cross-section and have their open sides disposed downwardly.

The deflector 16 is arranged in the space between the platform 9 of the foot-rest or "deck" 8 and the body of the ski 1 with the apex or closed end of the V-shaped deflector fitting in the medial gratings 18 to be thereby held securely in position.

Thus it will be seen that in both forms of the invention provision is made for preventing the packing of the snow between the foot and the platform of the "deck" or foot-rest and for the directing of the snow to opposite sides of the ski; the snow which would otherwise pack between the foot and the platform of the "deck" being substantially automatically pushed through the slots in the deck by the pressure of the foot and the weight of the body.

It is thought that a clear understanding of the construction, utility and advantages of an invention of this character will be had without a more detailed description thereof.

Having thus described the invention what is claimed as new is:

1. As a new article of manufacture, a ski having a foot–rest thereon, said foot-rest being spaced from adjacent portions of the ski and said space being located under the foot-rest and opening out at the side edges of the ski and said foot-rest having openings therein passing from the top of said foot-rest to said space.

2. As a new article of manufacture, a ski having a raised foot-rest thereon, said foot-rest presenting a platform provided with slots, said platform being spaced from the body of the ski and the space between the platform and the ski body presenting slots at opposite sides of the ski for the discharge of the snow passing downwardly through the slots in the platform.

3. As a new article of manufacture, a ski having a raised foot-rest thereon, said foot-rest presenting a platform provided with slots, said platform being spaced from the body of the ski and the space between the platform and the ski body presenting slots at opposite sides of the ski for the discharge of the snow passing downwardly through the slots in the platform, and a deflector mounted in the space between the body of the ski and said platform and serving to direct the snow towards and through the aforementioned slots at opposite sides of the ski.

4. As a new article of manufacture, a ski having a raised foot-rest thereon, said foot-rest presenting a platform provided with slots, said platform being spaced from the body of the ski and the space between the platform and the ski body presenting slots at opposite sides of the ski for the discharge of the snow passing downwardly through the slots in the platform, and a deflector mounted in the space between the body of the ski and said platform and serving to direct the snow towards and through the aforementioned slots at opposite sides of the ski, and said foot-rest and deflector being integral one with the other and with said ski.

5. As a new article of manufacture, a ski having a raised foot-rest thereon, said foot-rest presenting a platform provided with slots, said platform being spaced from the body of the ski and the space between the platform and the ski body presenting slots at opposite sides of the ski for the discharge of the snow passing downwardly through the slots in the platform, and a deflector mounted in the space between the body of the ski and said platform and serving to direct the snow towards and through the aforementioned slots at opposite sides of the ski, said deflector being in the form of a metallic plate having depending flanges at opposite ends thereof provided with base flanges resting on the ski, fastening elements engaging the ski and said base flanges for securing the foot-rest thereto.

6. As a new article of manufacture, a ski having a raised foot–rest thereon, said foot-rest presenting a platform provided with slots, said platform being spaced from the body of the ski and the space between the platform and the ski body presenting slots at opposite sides of the ski for the discharge of the snow passing downwardly through the slots in the platform, and a deflector mounted in the space between the body of the ski and said platform and serving to direct the snow towards and through the aforementioned slots at opposite sides of the ski, said platform being in the form of a metallic plate having depending flanges at opposite ends thereof provided with base flanges resting on the ski, fastening elements engaging the ski and said base flanges for securing the foot-rest thereto, and said deflector being in the form of a metallic plate bent into a substantial V with the wings of the V being reversely curved relative to one another.

7. A foot-rest for skis, said foot-rest being formed from a single blank of material cut, shaped and dimensioned to provide a raised platform equipped with slots, and integral supporting flanges at opposite ends of the platform and provided for attachment to a ski, as and for the purpose specified.

PETER J. KAIRIS.