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ROLLER SKATE CONVERTIBLE TO ICE SKATE

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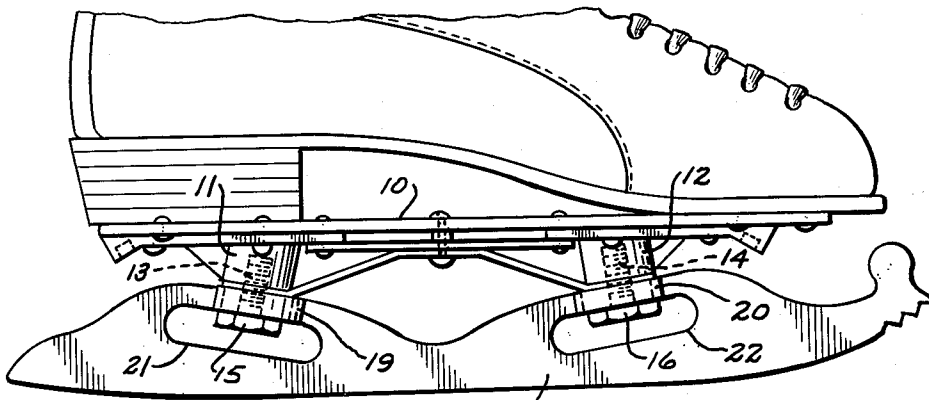


Fig. 1.

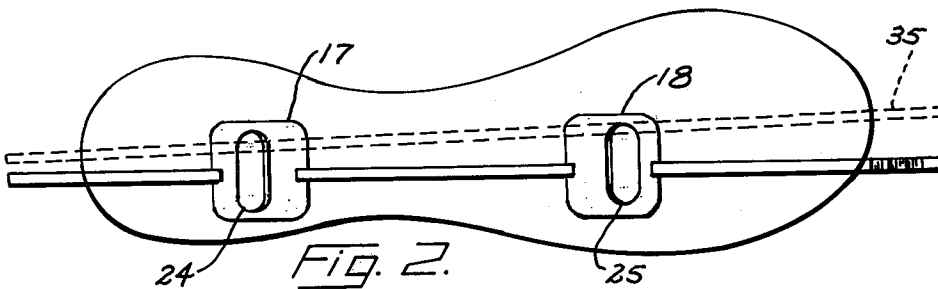


Fig. 2.

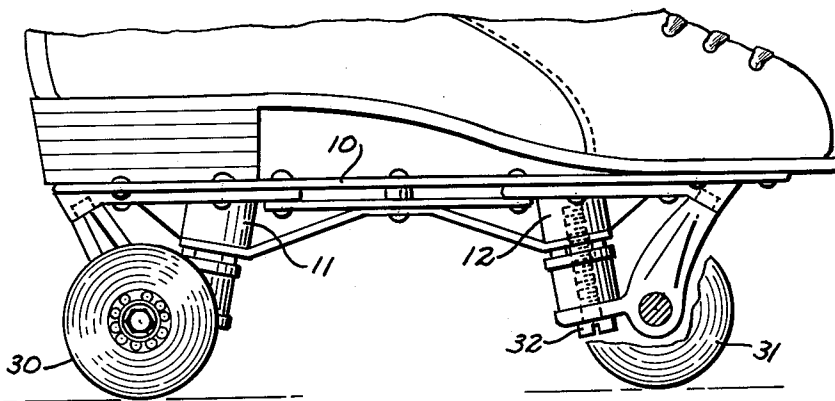


Fig. 3.

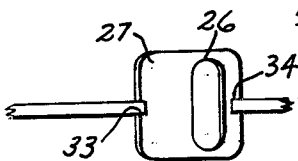


Fig. 4.

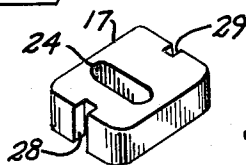


Fig. 5.

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ROLLER SKATE CONVERTIBLE TO ICE SKATE

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5 Claims. (Cl. 280—7.13)

This invention relates to skates, and in particular a convertible skate that may readily be changed from an ice skate to a roller skate or from a roller skate to an ice skate in which means is provided for adjusting the blade of an ice skate on an attaching element laterally, particularly to provide balance in an ice skate.

The purpose of this invention is to provide attaching means for a skate whereby rollers may readily be removed and replaced with an ice skating blade in which the ice skating blade is adjustable laterally to obtain balance and in which the attaching elements are adjustable longitudinally to accommodate shoes of different sizes.

Attaching elements have been provided for converting roller skates to ice skates, however, whereas the longitudinal center between the rollers of a roller skate is not essential, it is absolutely necessary that a single blade of an ice skate be positioned exactly on the longitudinal center or midway between the sides of a mounting element or shoe.

With conventional converting elements it is impossible to adjust the position of the ice skating blade laterally thereby making it difficult, if not impossible to hold the ankles with such rigidity that the ankles do not turn.

With this thought in mind this invention contemplates installing blocks having elongated slots extended laterally thereof in notches in upper edges of ice skating blades with the blocks positioned to correspond with bearing blocks for rollers whereby with the rollers removed the ice skating blades with the blocks therein may be attached to a foundation member of a roller skate by the same screws by which the rollers were attached wherein the blocks are adjustable laterally to adjust the position of the ice skating blades on the mounting element.

The object of the invention is to provide mounting means whereby an ice skating blade may be securely mounted on the foundation element of a roller skate with the rollers removed.

Another object of the invention is to provide means for mounting an ice skating blade on the foundation member of a roller skate in which the blade is adjustable laterally of said foundation member.

Another important object of the invention is to provide an ice skating blade attaching element whereby the blade may be mounted on the foundation element of a roller skate with the rollers removed in which the attaching elements are adjustable longitudinally to correspond with shoes of different sizes.

A further object of the invention is to provide a combination roller and ice skate in which ice skating blades are adjustable laterally in which the skate is of a simple and economical construction.

With these and other objects and advantages in view the invention embodies an ice skating blade having spaced openings therethrough with attaching blocks having laterally disposed elongated slots therein secured in the openings and positioned to correspond with the threaded hubs of a foundation member of a roller skate whereby with the rollers of the roller skate removed the attaching

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blocks may be secured, by the screws for attaching the rollers to the hubs and in which the elongated slots of the attaching blocks permit lateral adjustment of the blade.

Other features and advantages of the invention will appear from the following description taken in connection with the drawing wherein:

Figure 1 is a side elevational view showing the lower portion of a shoe with an ice skating blade mounted thereon.

Figure 2 is a view looking upwardly toward the under surface of the mounting element for attaching the blade to a shoe with the shoe omitted and showing the ice skating blade in one position in full lines and in a laterally adjusted position in dotted lines.

Figure 3 is a side elevational view of the shoe, shown in Figure 1, showing rollers of a roller skate thereon.

Figure 4 is a view showing a modification wherein one of the attaching blocks, shown in Figure 2, is turned around to decrease the distance between the slots.

Figure 5 is a perspective view illustrating one of the attaching blocks for connecting an ice skating blade to the foundation member of a roller skate.

Referring now to the drawing wherein like reference characters denote corresponding parts the combination roller and ice skate assembly of this invention includes a conventional roller mounting element 10 having hubs 11 and 12 with threaded bores 13 and 14 extended therein, and with screws 15 and 16 threaded in the bores and extended through blocks 17 and 18, that are positioned in gaps 19 and 20 of openings 21 and 22, respectively, of an ice skating blade 23.

The blocks, such as the blocks 17 and 18, are similar and the transversely or laterally disposed slots 24 and 25 of said blocks are positioned outwardly, as shown in Figure 2 to register with threaded bores 13 and 14 of a skate foundation member 10 to correspond with one size of shoe, or the blocks may be turned around as illustrated in Figure 4 wherein a slot 26 of a block 27 is positioned toward a longitudinal center of a shoe whereby the distance between the slots, such as the slots 24 and 25 in Figure 2, is reduced to correspond with a shoe of a smaller size, and it will be understood that the blocks may be positioned whereby both slots extend, selectively, toward the center or toward outer ends of the shoe or one slot may be positioned toward the center and the other toward the outer end of the shoe.

As illustrated in Figure 5 the block 17 is provided with mounting slots 28 and 29 that receive edges of an ice skating blade at the sides of the gaps 19 and 20 of the openings 21 and 22, and with the blocks correctly positioned to correspond with the size of a shoe the blocks are secured in the gaps of the ice skating blades by welding or other suitable means.

In the roller skate illustrated in Figure 3 the mounting member 10 is similar to the corresponding member shown in Figure 1 and this member is also provided with hubs 11 and 12 upon which the rollers 30 and 31 are secured by screws 32. The roller skate may be of any other design.

In changing from the ice skates shown in Figure 1, to a roller skate, it is only necessary to remove the screws 15 and 16 and attach the roller assemblies to the hubs 11 and 12 by screws 32, as shown in Figure 3; and by the same means the roller skate may be converted into an ice skate by removing the screws 32 together with the wheel assembly and attaching the blocks with the transversely disposed slots therein to the hubs 11 and 12 by placing screws 15 and 16 through the slots 24 and 25, of the assembly shown in Figure 2.

The blocks 17, 18 and 27 are formed from the same pattern so that all are duplicates and the blocks 27 shown

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in Figure 4 are also provided with slots 33 and 34, similar to the slots 28 and 29.

By loosening the screws 15 and 16 it is possible to adjust the ice skating blade 23, such as from the position shown in full lines in Figure 2 to the position shown in dotted lines in which the blade is indicated by the numeral 35.

It will be understood that modifications, within the scope of the appended claims, may be made in the design and arrangement of the parts without departing from the spirit of the invention.

What is claimed is:

1. An ice skate comprising a foundation element designed to be attached to a sole of a shoe, internally threaded hubs extended from the foundation element, and an ice skating blade, said ice skating blade having elongated openings therein positioned at the opposite ends thereof and gaps in one longitudinal edge thereof communicating with said openings, blocks having elongated laterally disposed slots therein positioned in the gaps in the said one longitudinal edge of said blade, and said slots positioned to receive attaching elements for securing the blade to the hubs of the foundation elements.

2. An ice skating attachment for a roller skate comprising an elongated ice skating blade having spaced transversely disposed openings therethrough and having gaps positioned between the openings and upper edge of the blade, and blocks with transversely disposed slots extended therethrough mounted in the gaps of the blade.

3. An ice skate comprising a foundation element having spaced hubs extended downwardly therefrom, the foundation element being designed to be attached to the sole of a shoe, and the hubs providing mounting means for rollers of a roller skate, and an ice skating blade having elongated openings therein, and gaps in one edge thereof communicating with said openings, blocks with elongated laterally disposed slots therein, positioned in

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the gaps in the blade, and means extended through said slots to secure said blocks to the lower surfaces of the hubs of the mounting element with the rollers removed.

4. In a roller and ice skate assembly, the combination 5 which comprises a mounting element for attachment to the sole of a shoe, angularly positioned spaced internally threaded hubs extended downwardly from the mounting element and integrally attached thereto, said hubs being adapted to mount roller assemblies thereon, and an ice 10 skate runner having openings therethrough and having gaps between the openings and upper edges of the runner, blocks having elongated laterally disposed slots therein mounted in the gaps of the runner, and screws extended 15 through the slots of the blocks and threaded into said hubs to mount said runner on said hubs with the roller assemblies removed.

5. In a skate, the combination which comprises a mounting element for attaching skate assemblies to the sole of a shoe, and spaced internally threaded hubs 20 mounted in angular positions on the lower side of the foundation element and extended downwardly therefrom, said hubs being adapted to mount skate roller assemblies thereon, an ice skating blade having gaps in one longitudinal edge thereof, means positioned in said gaps for 25 receiving securing elements for attaching the ice skating blade to the hubs with the skate assemblies removed, and for adjusting the ice skate blade laterally in relation to the mounting element.

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