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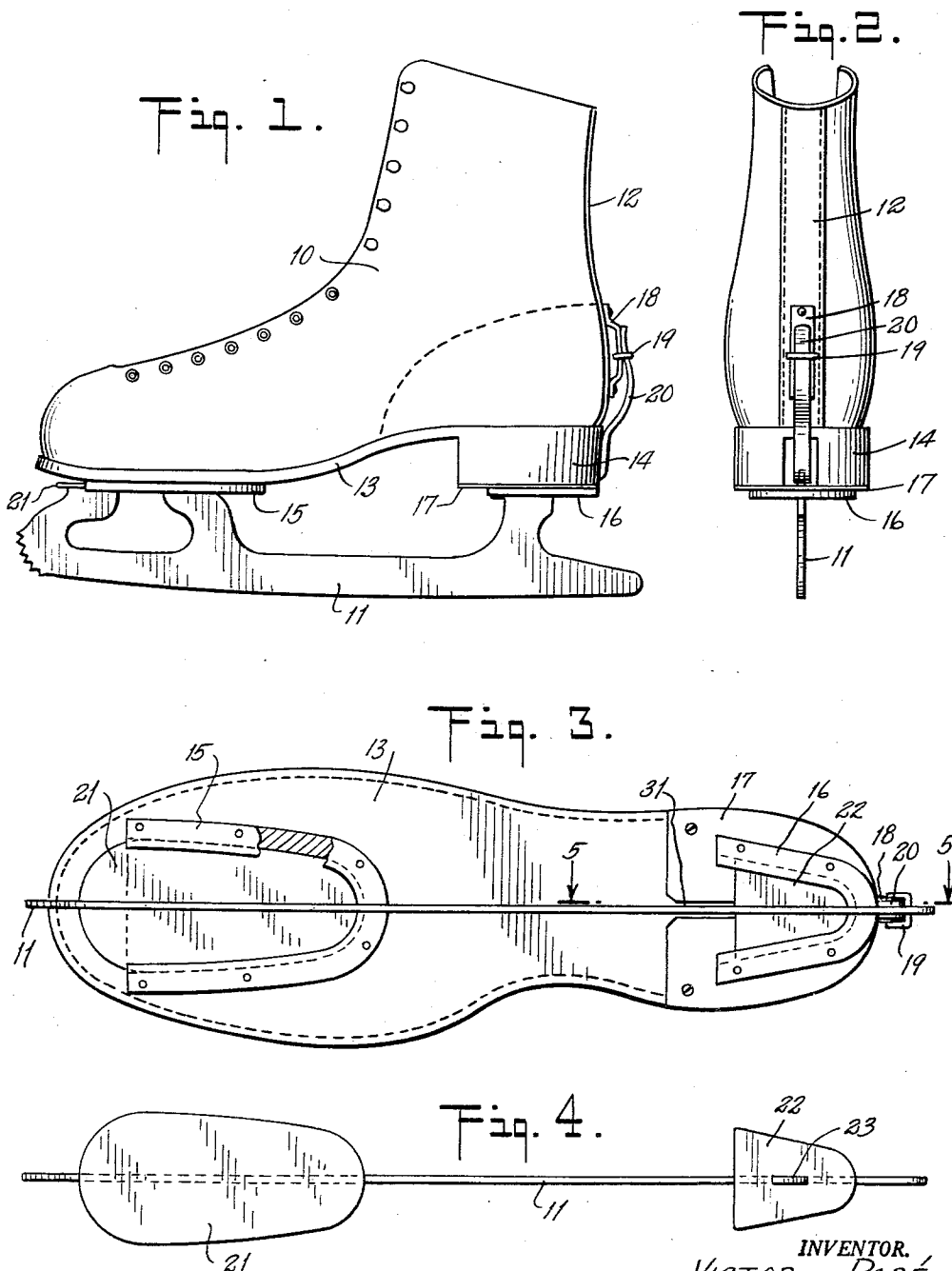
V. PARÉ

3,026,118

SKATE AND SHOE COMBINATION

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2 Sheets-Sheet 1



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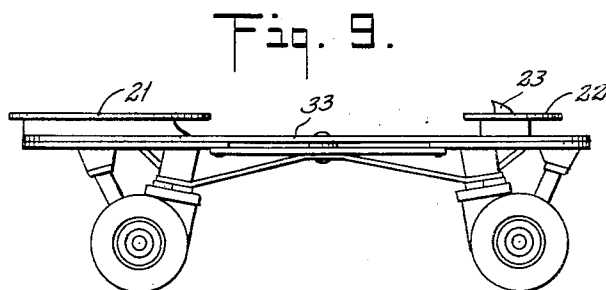
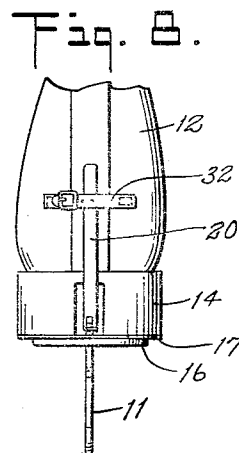
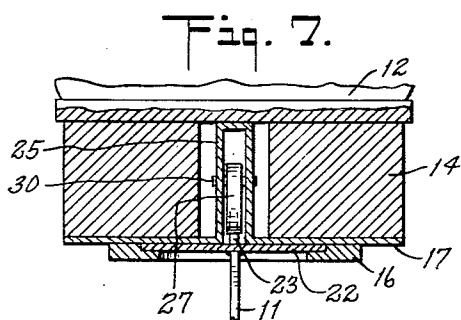
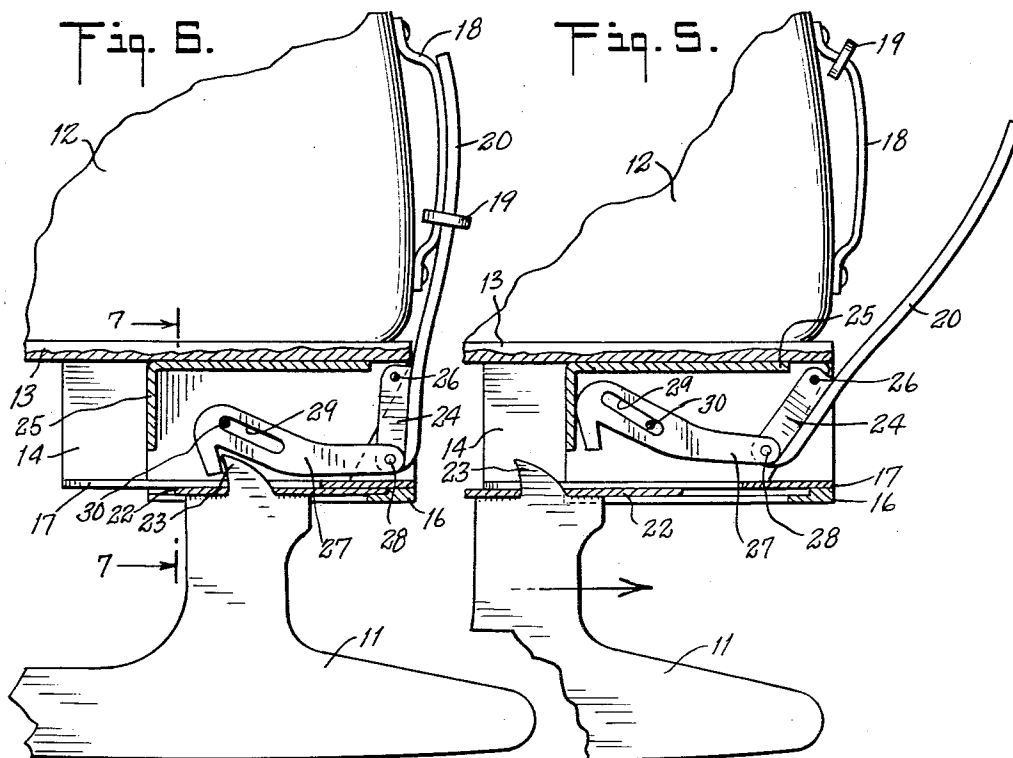
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3,026,118

SKATE AND SHOE COMBINATION

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2 Sheets-Sheet 2



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SKATE AND SHOE COMBINATION

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2 Claims. (Cl. 280—11.3)

This invention relates to shoe skates wherein the skate is detachable from the shoe. In one of its more particular aspects this invention relates to a device for attaching the skate to the shoe.

In ice skating and roller skating it is frequently desired to leave the skating area for short periods of time. At such times it has been necessary either to remove one's shoe skates and change to street shoes for walking or to walk on the skates themselves, a use for which the skates were never intended and one for which they are ill adapted. By the use of shoe skates consisting of ice skates or roller skates detachable from the shoes it is possible to remove the skates from the shoes and to carry the skates while walking on the shoes themselves. This is not only more comfortable and convenient but also safer than walking on the skates even for relatively short distances. Furthermore, it is possible in this way to change from one type of skate to another, for example from a hockey skate to a figure skate, without changing shoes.

Various types of skate and shoe combinations have been suggested in the past, but most of them have been unsatisfactory because of the inconvenience attendant upon their use or because of the danger of the skate accidentally becoming detached from the shoe. In other words, the means for attaching the skate to the shoe generally has not been positive and fool-proof.

It is an object of this invention to provide an improved shoe and skate combination wherein the skate is detachable from the shoe.

Another object of this invention is to provide a skate and shoe combination with a positive and fool-proof attaching device.

Other objects and advantages of this invention will become apparent in the course of the following detailed disclosure and description.

The invention generally consists in providing a specially outfitted shoe having flanged sole and heel plate guides adapted to receive complementary sole and heel plates attached to the skate and also having a hook located within the heel of said shoe and adapted to engage a vertically disposed lug attached to the heel plate of said skate. The invention also includes means for holding the hook positively locked in the position wherein it engages the lug.

In the accompanying drawing:

FIG. 1 is a side elevational view of an ice skate embodying the invention showing the skate attached to the shoe;

FIG. 2 is a rear elevational view of the skate;

FIG. 3 is a bottom plan view, partly in section, of the ice skate;

FIG. 4 is a top plan view of the skate detached from the shoe;

FIG. 5 is an enlarged vertical sectional view of a part of the skate taken along the line 5—5 of FIG. 3, showing the skate in the process of being attached to the shoe;

FIG. 6 is a similar view showing the skate attached to the shoe;

FIG. 7 is a transverse sectional view taken along the line 7—7 of FIG. 6;

FIG. 8 is a rear elevational view of another embodiment of the invention; and

FIG. 9 is a side elevational view of the skate part of a roller skate embodying the invention.

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Referring to FIGS. 1 to 3, a shoe 10 is shown attached to an ice skate 11 by means of an improved attaching device embodying the invention. The shoe 10 is comprised of an upper 12, a sole 13, and a heel 14. A sole plate guide 15 which is flanged downwardly and inwardly and a similarly flanged heel plate guide 16 are attached to sole 13 and heel 14, respectively. These guides may be of any convenient shape such as curved as shown or rectangularly shaped. The open ends may face forward as shown or backwards if so desired.

Attached to heel 14, which is partially hollowed out as shown in FIG. 2, is a base plate 17 for the hook and lever device to be hereinafter described. Attached to the back of upper 12 is a ring guide 18. Ring 19 is slidably mounted on and encircles guide 18. Lever 20 projects upward and outward from heel 14 and is shown held in its closed position by ring 19 on guide 18. Ice skate 11 is equipped with sole plate 21 and heel plate 22 which fit into sole plate guide 15 and heel plate guide 16, respectively.

FIG. 4 shows the skate detached from the shoe. Lug 23 projects upward from heel plate 22, as can be seen more clearly in FIGS. 5, 6 and 9.

Referring now to FIGS. 5, 6 and 7, which show the attaching device in enlarged detail link 24 is fixedly connected to lever 20, rotatably connected to housing 25 by means of pivot pin 26 and pivotally connected to hook means 27 by means of pin 28. Hook means 27 contains a slot 29 through which a rod 30 extends and is supported at its ends by both side walls of housing 25. The side walls may be trapezoidally shaped as shown in dotted line in FIG. 6 and so as to serve as a stop for lever 20, or they may be rectangularly shaped if desired. Base plate 17 is generally fixed in relation to heel 14 but has a slot 31 wide enough to admit lug 23 as shown in FIG. 3.

For attaching skate 11 to shoe 10 ring 19 is slid along guide 18 until lever 20 is released from the position shown in FIG. 6. Lever 20 is then pulled outward and downward until it is in the position shown in FIG. 5. Skate 11 is put into the position shown in FIG. 5 by placing sole plate 21 and heel plate 22 within sole plate guide 15 and heel plate guide 16, respectively, so that lug 23 passes through slot 31 into the hollowed out portion of heel 14. Skate 11 is then pushed to the rear of the shoe until sole plate 21 and heel plate 22 contact the back edges of sole plate guide 15 and heel plate guide 16, respectively, as shown in FIG. 3. Then lever 20 is pulled upward and inward and ring 19 is slid along guide 18 around lever 20 into the position shown in FIG. 6. The skate is then positively locked in position by engagement of the hook of the hook means 27 with the lug 23.

Rearward pressures such as normally encountered in skating will tend to force the sole and heel plates tightly against the back edges of the sole and heel plate guides which prevent movement in this direction. Forward pressures, seldom encountered in normal skating, will tend to force the lug of the skate against the hook in the heel of the shoe, which prevents movements in that direction. Thus positive and fool-proof attachment is achieved.

To detach the skate from the shoe the steps for attaching the skate are followed in the reverse order.

FIG. 8 represents another embodiment of the invention wherein guide 18 and ring 19 of FIGS. 1 and 2 are replaced by a strap 32. Otherwise the construction of this embodiment is the same as previously described.

FIG. 9 shows a roller skate generally designated by the numeral 33 having sole plate 21 and heel plate 22 with lug 23 as described for the ice skate. A shoe the same as that described above could be used with this skate.

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The invention thus provides a shoe and skate combination which is conveniently and easily used, which is rugged in construction, and in which the attachment of skate to shoe is positive and fool-proof.

Various other embodiments of this invention can be course be made. It is accordingly intended to cover such embodiments as are reasonably and validly included within the scope of the appended claims.

I claim:

1. A skate and shoe combination comprising a skate 10 carrying at the upper part thereof horizontally disposed sole and heel plates, and a shoe provided with a sole and a heel, said shoe carrying sole and heel plate guides respectively upon said sole and heel of the shoe and adapted respectively to receive and to engage said sole 15 and heel plates of said skate, said skate carrying a lug disposed adjacent said heel plate of said skate and projecting upwardly with respect thereto, said heel being formed with a hollow space therewithin and providing an opening at the bottom side of the heel communicating 20 with said hollow space of said heel, said opening being adapted to receive therein said lug of said skate when said sole and heel plates of said skate are engaged respectively with said sole and heel plate guides of said shoe so that at least a part of said lug is disposed within said hollow space, hook means providing 25 a hook for hooking engagement with said lug, means supporting said hook means within said hollow space of said heel for movement of said hook means reciprocally between a first position wherein said hook may engage said lug and a second position wherein said hook is disengaged from said lug, means disposed exteriorly of and supported by said shoe and connected to said hook 30 means and operable for effecting said movement of said hook means between said first and second positions of said hook means, and means engaging said hook means adjacent a portion thereof spaced from said connection thereof to said operable means for effecting in said movement of said hook means between said two positions 40 downward and upward movements of said portion of said hook means concomitantly with rearward and forward movements thereof generally lengthwise of the shoe, said hook being adapted to engage said lug in the downward and rearward movement of said portion of said hook means and to be disengaged from said lug in the forward and upward movement of said portion of said hook means.

2. A skate and shoe combination comprising a skate 50 carrying at the upper part thereof horizontally disposed sole and heel plates, and a shoe provided with a sole and a heel, said shoe carrying sole and heel plate guides respectively upon said sole and heel of the shoe and adapted respectively to receive and to engage said sole

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and heel plates of said skate, said skate carrying a lug disposed adjacent said heel plate of said skate and projecting upwardly with respect thereto, said heel being formed with a hollow space therewith and providing an opening at the bottom side of the heel communicating 5 with said hollow space of said heel, said opening being adapted to receive therein said lug of said skate when said sole and heel plates of said skate are engaged respectively with said sole and heel plate guides of said shoe so that at least a part of said lug is disposed within said hollow space, hook means formed for hooking engagement with said lug, means supporting said hook 10 means within said hollow space of said heel for movement of said hook means reciprocally between a first position wherein said hook means may engage said lug and a second position wherein said hook means is disengaged from said lug, a lever disposed exteriorly of the shoe and supported by said shoe for pivotal movement thereof on a horizontal axis transverse to the length 15 of the shoe, said hook means being pivotally connected to said lever at a point on said lever spaced from said pivotal axis to provide for said movements of said hook means between said two positions upon pivotal movement of said lever, a guide element supported by said shoe and disposed in generally parallel relation to said lever in said position of said lever in which said hook means 20 engages said lug, and a ring carried by said guide element for movement therealong, said ring being adapted to engage said lever in a given position of said ring for holding said lever against movement with respect to said guide element and to disengage said lever in another position of said ring so that said lever may be moved to effect movement of said hook means from said first position engaging said lug to said second position in which 25 said hook means is disengaged from said lug.

References Cited in the file of this patent

UNITED STATES PATENTS

34,590	Plimpton	Mar. 4, 1862
65,502	Post	June 4, 1867
908,536	Arlund	Jan. 5, 1909
1,160,117	Lavers	Nov. 9, 1915
1,529,967	Stanley et al.	Mar. 17, 1925
2,118,892	Mays	May 31, 1938
2,244,719	Mansfield	June 10, 1941
2,470,840	Anz	May 24, 1949
2,717,784	Glenn	Sept. 13, 1955
2,868,553	Rieckman	Jan. 13, 1959

FOREIGN PATENTS

20,215	Germany	Nov. 20, 1882
64,082	Germany	Aug. 26, 1892