

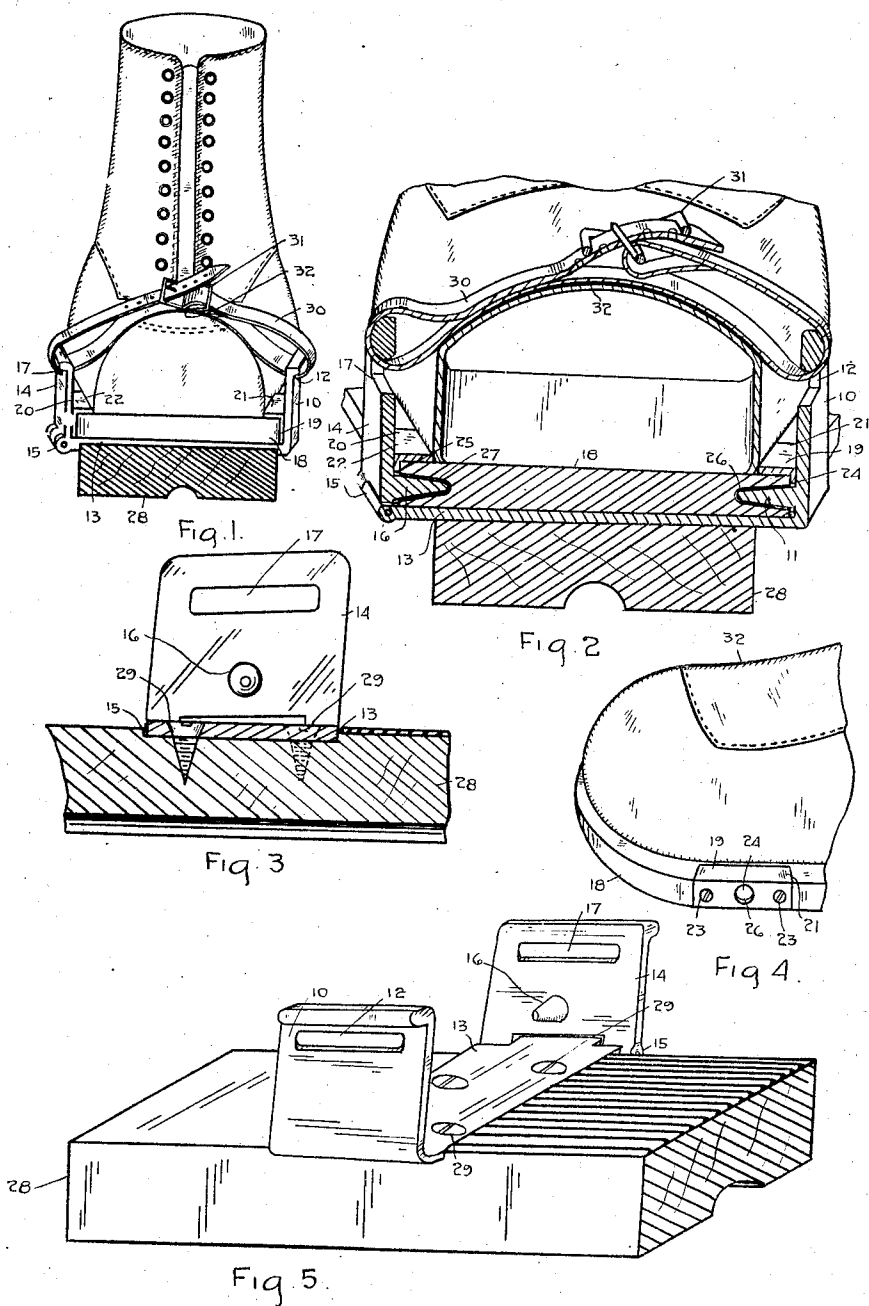
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SKI HARNESS

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SKI HARNESS.

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The invention relates to a ski harness as described in the present specification and illustrated in the accompanying drawings that form part of the same.

5 The invention consists essentially of the novel features of construction pointed out broadly and specifically in the claims for novelty following a description in detail of an acceptable form of the invention.

10 The objects of the invention are to facilitate the pleasures of skiing for beginners and for those skilled in the pastime and especially enable those entering competitions to rely on their fastenings and at the same
15 time give them the maximum freedom to foot movement required for jumping and running exercises; to eliminate many of the accidents due to imperfect harness; to avoid damage to and the weakening of the ski due
20 to transverse holes made for other harnesses; to insure protection for the shoe, such as the tearing off of soles and thus do away with the lamentable results often occurring as a result of this happening; and generally to
25 provide an efficient and durable harness free from complications and economical in regard to production and maintenance.

In the drawings, Figure 1 is a perspective view of the harness showing its application
30 to the ski and shoe.

Figure 2 is a cross sectional view of the ski and fastening pivot plates as mounted on the ski and attached to the shoe.

Figure 3 is a longitudinal sectional view
35 of the ski broken away and showing the countersunk bed plate and pivot plates.

Figure 4 is a fragmentary perspective detail of a shoe sole showing a pivot bearing.

Figure 5 is a perspective detail of the
40 pivot plate.

Like numerals of reference indicate corresponding parts in the various figures.

Referring to the drawings, the fixed pivot plate 10, having the tapered pivot 11 projecting inwardly therefrom adjacent to the lower end and the strap slot 12 near to the upper end, is preferably integral with the bed plate 13. The pivot plate 14 is secured to the other end of the bed plate 13 by the
50 hinge 15 and has a correspondingly tapered pivot 16 adjacent to its lower end and a strap hole 17 near to its upper end, both pivot plates in their operating position converging inwardly from their rear ends to fit snugly
55 to the shoe sole 18 to which are attached the bearing plates 19 and 20 having the flanges

21 and 22 respectively over the upper surfaces of the sole extension.

The bearing plates 19 and 20 are secured to the soles by the screws 23 and have the
60 pivot orifices 24 and 25 registering with the pivot holes 26 and 27 in the sides of the sole 18.

The bed plate 13 is countersunk in the ski 28 and secured thereto by the screws 29
65 and extends thereacross and at either end slightly therebeyond to bring the shoe sole 18 directly over the ski and to give the foot of the wearer a full bearing on the ski.

The strap 30 is passed through the strap
70 holes 12 and 17 and is fastened by the buckle 31 over the shoe upper 32, thereby locking the hinged pivot plate 14 to its upper position and maintaining the pivots 11 and 16
75 securely in the bearing plates 19 and 20 permanently fastening the foot of the wearer to the ski during the skiing operations, yet permitting freedom for the natural movements of the feet without fear of loosening or removal until the pastime is finished for
80 the time being.

The pivot plates may of course be fashioned differently and secured to the ski in a different manner according to the ideas of the manufacturer in relation thereto the
85 salient feature being the pivotal attachment of the shoe sole to the ski.

The strap holes 12 and 17 are bevelled at the edges and also the top edges of the pivot plates, which insures perfectly smooth corners for the passage of the straps and therefore avoids cutting and abrasion generally of said straps and consequent rupture thereof.

What I claim is:—

95 1. In a ski harness, a pair of pivot plates adapted to be secured to a ski and having pivots projecting inwardly therefrom and strap slots therethrough, one of said plates being fixed in relation to the ski and the
100 other of said plates adapted to be hinged to the ski, a pair of bearing plates adapted to be attached to the shoe sole and having pivot orifices, and a strap adapted to hold said pivots in said pivot orifices.

105 2. In a ski harness, a bed plate adapted to be secured to a ski and having at one end a pivot plate rigid therewith and extending upwardly therefrom and having a tapered pivot and a strap slot, said bed plate having
110 at the other end a pivot plate hinged thereto and having a tapered pivot and a

strap slot, bearing plates adapted to be secured to the shoe sole of the wearer and having pivot orifices therein, and a strap adapted to hold said pivots in said pivot orifices. 5

3. In a ski harness, a ski having a transverse slot, an angle plate countersunk in the slot of said ski and screwed thereto and forming at one end a pivot plate rigid therewith and having a pivot extending therefrom and adjacent to the lower end and a strap slot near to the upper end, said angle plate having at the other end a pivot plate hinged thereto and a pivot extending therefrom and adjacent to the lower end and a strap slot near to the upper end, bearing plates having pivot bearings and upper flanges and 10 15

adapted to be secured to a shoe sole, and a strap and buckle adapted to be inserted through the slots of said pivot plates and buckled over the shoe to hold said pivots in their bearings. 20

4. In a ski harness, a pivot member adapted to be secured to a ski and having a fixed plate and a hinge plate and pivots projecting therefrom, and strap holes having bevelled edges, said plates having bevelled top sides, bearing plates adapted to be attached to a shoe sole and having pivot bearings, and a strap adapted to hold said pivots in their bearings. 25 30

Signed at Montreal, Canada, this 23rd day of February, 1926.

ADOLF JOHN PALMQUIST.