

UNITED STATES PATENT OFFICE

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SKI BINDING

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4 Claims. (Cl. 280—11.35)

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The present invention relates to a combined slalom- jump- and tour binding of the kind where the back strap consists of a heel strap in connection with a wire, leather strap or the like, which is passed over a roller on each side of the ski so that the wire runs double between the toe iron and the heel strap.

In ski bindings of this kind the rollers have been located on the toe iron or on the side of the ski. The first named of these arrangements has the disadvantage that the back strap between the roller and the heel strap comes to lie horizontally or approximately parallel with respect to the ski so that by the tensioning of the back strap no component of the pull is obtained tending to hold the heel down against the ski. The back part of the ski therefore will hang down when the ski is lifted from the ground.

If the roller is located on the side of the ski the back strap between the roller and the heel strap certainly may be given a sufficiently inclined position, but a rapidly increasing pull downwards on the heel is induced when the heel is lifted from the ski, wherefore the binding is not suitable as tour binding.

According to the present invention, the rollers are arranged in the ends of the heel strap. Each end of the wire preferably is fastened on a side of the ski, and at a point near each end, the wire is passed under a guide on the side of the ski. The pull in the heel strap will then be the resultant of the pull in the two parts of the wire. This resultant pull of the two parts of the wire may easily be varied with respect to the direction of pull, by means of guides for one or more parts of the wire under which the wire may be placed, so as to adapt the ski binding for use either as a tour binding or for slalom or jump.

In view of the fact that the pull of the heel strap is taken up by both parts of the wire at the respective sides of the ski, the wire may be thinner and therefore more flexible than in the known arrangement of the rollers. A further advantage in connection with the present arrangement is that the rollers fastened to the heel strap may roll on the wire, whereby the binding becomes more free and easy and therefore more convenient in use.

The invention is illustrated in the attached drawing where Figs. 1 and 2 show two different embodiments of the binding. In the drawing, 1 is the ski, 2 the toe iron, 3 the tightening device for the back binding, 4 a continuous length of wire and 5 the heel strap.

In the embodiment shown in Fig. 1 the part of the wire 4 on each side of the tightening device

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3 is passed under an ear 10 on the toe iron 2 and around a roller 6 in the end of the heel strap 5 and by means of a hook 7 at the end of the wire hooked on a pin 8 on the ski.

In the embodiment shown in Fig. 2 the wire 4 is from the tightening device passed under an ear 11 on the ski below the toe iron and from here around the roller 6 on the heel strap and is by means of the hook 7 fastened to a pin 12 on the toe iron 2. 9 is an ear on the side of the ski behind the toe iron, under which ear the lower part of each loop may be laid for adapting the binding in known way for slalom or jump.

In the embodiment shown in Fig. 1 the heel strap is made from a helically wound wire, whereby a certain elasticity is obtained, whereas the heel strap in the embodiment shown in Fig. 2 consists of a strap which is not elastic in itself.

What I claim is:

1. In a ski binding for positioning and securing a shoe to the ski, a toe iron, a heel strap, a roller secured to each end of the said heel strap, a flexible tension member each end of which is passed in a loop over one of the said rollers, means for securing both ends of the said tension member to the ski, and means for applying tension to said member for urging the said heel strap forwardly.

2. In a ski binding as claimed in claim 1, means for securing the end of the said flexible tension member to the side of the ski and an intermediate part thereof to the top of the ski.

3. In a ski binding as claimed in claim 1, means for securing the ends of the said flexible tension member to the toe iron and an intermediate part thereof to the top of the ski.

4. A ski binding as claimed in claim 1, a hook secured to each end of the flexible tension member, and means for securing the said hooks one to each side of the ski, said tensioning means comprising a tightening device secured to the ski in front of the said toe iron and engaging said tension member at an intermediate point.

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