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STRETCHING DEVICE FOR THE HEEL WIRE OF SKI-TIES

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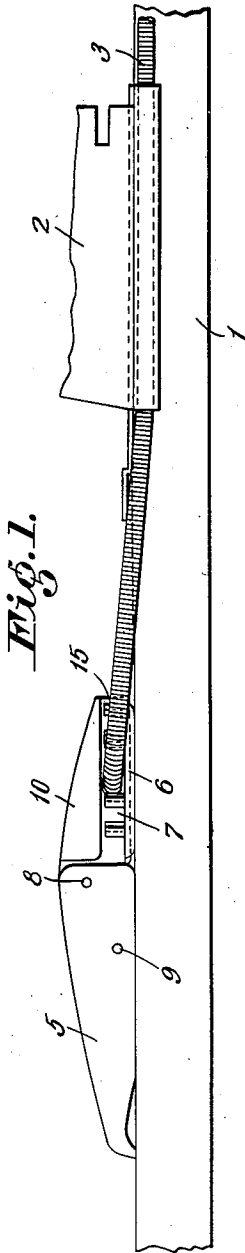


Fig. 1.

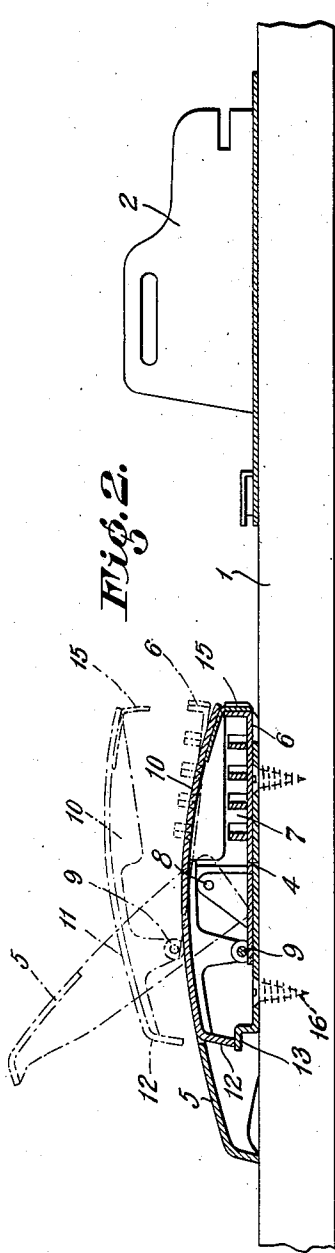


Fig. 2.

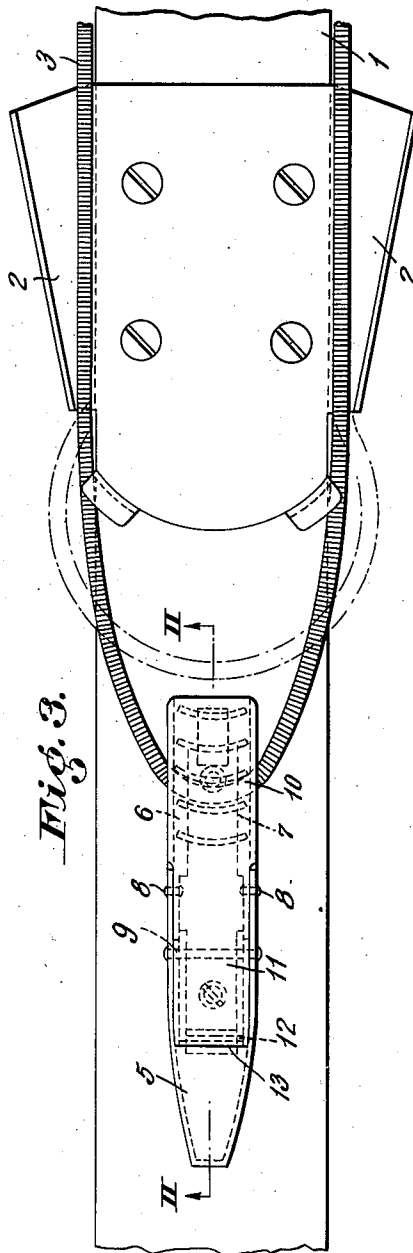


Fig. 3.

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# UNITED STATES PATENT OFFICE

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## STRETCHING DEVICE FOR THE HEEL WIRE OF SKI TIES

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2 Claims. (Cl. 280—11.35)

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The present invention relates to a stretching device for the heel wire of ski-ties, which device is located in front of the toe supports of the ski-tie and consists of a stretching arm swingably journalled on an attachment plate, and of a fastening member provided with at least one attachment member for the heel wire and so swingably connected to the stretching arm that the fastening member at swinging of the stretching arm downwards and forwards is displaced forwards, whereby a plate is swingably journalled on the stretching arm in front of the attachment member for the heel wire, which plate covers the attachment member in operative position.

In order to secure this latter plate in operative position it has already been proposed to provide the front end of said plate with a springing tongue or the like, which at swinging downwards of the plate over the attachment member for the heel wire snaps about an abutment provided at the rear end of the fastening member. This locking of the cover plate, however, has not proved to be satisfactory, especially when the tie is used at ski-jumps.

The object of the invention is to overcome this inconvenience. For this purpose, the plate covering the attachment member for the heel wire is, according to the invention, provided with an extension projecting beyond its journalling place on the fastening member, said extension being so formed that when the stretching arm is brought to its operative position, said extension will come into contact with the attachment plate and thereby forcibly hold the cover plate in the position covering the attachment member for the heel wire.

The invention will be further explained in connection with the description of an embodiment of the stretching device illustrated on the enclosed drawing, in which:

Fig. 1 shows a side view of a portion of a ski provided with the stretching device according to the invention.

Fig. 2 is a longitudinal sectional elevation along the line II—II in Fig. 3 which is a plan view of a part of the ski and the stretching device.

On the drawing 1 designates the ski on which the toe supports 2 are attached. In front of these the device provided for the stretching of the heel wire 3 is mounted. Said device comprises an attachment plate 4 secured by means of screws 16 to the ski, on which plate a stretching arm 5 is swingably mounted on pivots 8. A fastening member 6 for attachment of the heel wire 3 is, by means of a pivot 9 swingably connected to

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said stretching arm and is provided in a manner known per se with one or more grooves 7 open upwards, which enable a setting of the length of the heel wire 3. The pivot 9 for the fastening member 6 is so positioned that this member when the stretching arm 5 is swung downwards and forwards is displaced forwards. At the front end of the fastening member 6 a plate 10 is swingably journalled, preferably on the pivot 9, said plate covering, in operative position, the grooves 7 of the fastening member 6.

This plate 10 is provided with an extension 11 projecting beyond the journalling place 9 on the fastening member 6, said extension being provided at its front end with a tongue 12 directed downwards, which when the stretching arm 5 is swung downwards forcibly makes contact with an upwards directed abutment 13 provided at the front end of the attachment plate 4, whereby the cover plate 10 in its turn forcibly will be held in the position covering the grooves 7. The rear end of the plate 10 may preferably be provided with a snapspring 15 in a manner known per se, which spring, when the plate 10 is swung downwards over the grooves 7 of the fastening member 6 grasps the rear end of said member.

Having now particularly described the nature of my invention and the manner of its operation, what I claim is:

1. Ski-tie having a heel wire and toe supports and provided with a stretching device for the heel wire located in front of said toe supports, and comprising an attachment plate, a stretching arm pivoted in said attachment plate, a fastening member provided with at least one attachment member for the heel wire and so pivoted in said stretching arm that said fastening member is displaced forward by swinging the stretching arm downwards and forwards, a cover plate pivoted in said stretching arm in front of the attachment member for the heel wire covering said attachment member in operative position, said cover plate being provided with an extension projecting beyond its journalling place on the stretching arm, said extension being so formed that when the stretching arm is brought to its operative position, said extension will come into contact with the attachment plate and thereby forcibly hold the cover plate in the position covering the attachment member for the heel wire.

2. Ski-tie as claimed in claim 1 and in which the front end of said extension of the cover plate is provided with a tongue directed downwards, said tongue cooperating with a corresponding

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abutment provided at the front end of said attachment plate when the stretching arm is in its operative position.

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