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R. KJELLBERG

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SKI

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Fig. 2.

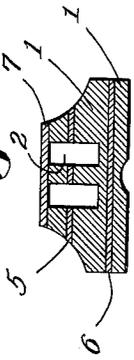


Fig. 3.

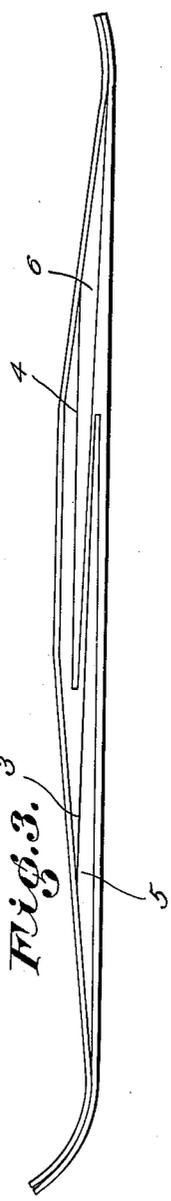


Fig. 4.

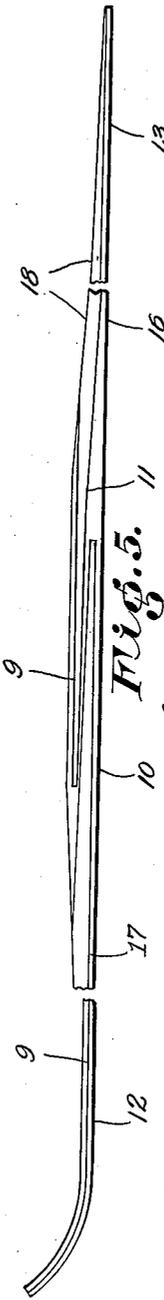


Fig. 5.



Fig. 6.

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SKI

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9 Claims. (Cl. 280—11.13)

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The present invention relates to skis and has for its object to make the skis maintain a bend imparted to the same in the manufacture thereof, while preserving a very light weight of the skis.

The invention is illustrated in the accompanying drawing. Fig. 1 shows an elevation of a form of embodiment of a ski according to the invention. For the sake of clarity, the ski has been drawn abnormally high. Fig. 2 shows a cross section to a larger scale on line II—II in Fig. 1. Fig. 3 is an elevation of another embodiment, and Fig. 4 shows a third embodiment of the object according to the invention. Fig. 5 shows a further embodiment, and Fig. 6 represents a blank for the manufacture of skis according to the invention.

In the drawing, 1 designates a ski blank consisting of wood or similar material, said ski blank having longitudinally extending recesses 2 milled into the same from the upper side of the blank. Commencing at a distance from the ends of the ski blank 1, longitudinally extending slits are cut into the ski blank 1. An upper front slit 3 and a lower rear slit 4 extend from the one to the other lateral face of the ski while passing each other at the middle portion of the ski blank. The slits are filled with insets 5, 6 of wood or the like of a suitable thickness, and the ski blank is glued together on a form block to ensure the bend of the ski. The ski blank with its insets is pointed obliquely downwardly toward the ends, and glued to the upper side of the blank is a thin plywood layer 7 extending all over the length and width of the ski and forming, together with the front end of the ski blank 1 and, perhaps, an intermediate wooden wedge 8, the brim of the ski. In the embodiment shown in Fig. 3, the front slit 3 is arranged underneath the rear slit 4, and the inserts are made wedge-shaped with the thinnest portion of the wedge directed inwardly to the center of the ski.

In Fig. 4, the insets (only one of which is shown) are made wedge-shaped with the thickest portions thereof directed inwardly toward the center of the ski.

Instead of two slits, it is possible to arrange one or more slits, it being also possible to glue the slits together directly without any insets, although this construction is not so favourable as a construction with insets.

In the manufacture, an ordinary ski blank, which may consist of one or more vertical and/or horizontal layers, is slitted from both ends, so that the slits will overlap one another at the central

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portion of the ski. The slits are filled with insets from wood or the like of a suitable thickness, and the ski blank with its insets is glued together on a form block to provide for the bend of the ski.

5 After that, one or more recesses or grooves are milled out from the upper side of the ski blank, said recesses or grooves extending in the longitudinal direction and having for their object to reduce the weight of the ski. The ski blank is then pointed toward the ends thereof, so that the commencement of the slits and the insets will be located at a suitable distance from both ends of the ski. A thin plywood layer is glued onto the upper side of the ski, said plywood layer extending all over the length and width of the ski, and at the same time the brim is bent, while a wedge-shaped inset might be glued into the point of the ski, so that the brim will thus consist of two or three layers.

20 In accordance with Figs. 5 and 6, two substantially parallel slits 10, 11 extending past one another are cut into an elongated piece of wood 9, so that a substantially zigzag-shaped ski blank is obtained, in which one free end 12 and the pointed end 13 connected therewith and turned in the opposite direction project for a distance outside the middle portion 14. If desired, the extended portions 12, 13 may be glued at oblique joining faces 15 and 16, respectively. After that, wedge-shaped wooden pieces 17 and 18 are glued into the slits 10 and 11 on a form block, while the desired bend is at the same time imparted to the ski blank. In this operation, the wedge-shaped wooden pieces 17 and 18 are made so long that their lower abutting faces extend as far as to the front and rear end, respectively, of the ski, while the upper abutting faces terminate at a distance in front of the brim and the rear end, respectively, of the ski. Then the ski blank is moulded to the desired shape. If desired, the ski may also be provided with a wooden layer covering the whole of the upper side or the whole of the lower side thereof.

What I claim is:

45 1. A ski having tapering end portions and at least one slit extending substantially longitudinally of the ski throughout the whole width thereof, said slit commencing on the upper side of one of said end portions at a distance from the end of the ski and extending toward the center portion of the ski, the faces of said slit being glued together.

50 2. A ski having tapering end portions and two slits extending substantially longitudinally of the ski throughout the whole width thereof, one of

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said slits commencing on the upper side of one of said end portions, and the other slit commencing on the upper side of the other one of said end portions, said slits extending from points at some distance from the respective ski ends toward the center portion of the ski.

3. A ski having tapering end portions and two slits extending substantially longitudinally of the ski throughout the whole width thereof, one of said slits commencing on the upper side of one of said end portions, and the other slit commencing on the upper side of the other one of said end portions, said slits extending past one another at the center portion of the ski.

4. In a ski comprising tapering end portions, two slits extending substantially longitudinally of the ski throughout the whole width thereof, one of said slits commencing on the upper side of one of said end portions, and the other slit commencing on the upper side of the other one of said end portions, said slits extending from points at some distance from the respective ski ends toward the center portion of the ski, and a layer glued fast to the upper side of the ski to cover said upper side and the openings of said slits therein.

5. In a ski comprising tapering end portions, two slits extending substantially longitudinally of the ski throughout the whole width thereof, one of said slits commencing on the upper side of one of said end portions, and the other slit commencing on the upper side of the other one of said end portions, said slits extending from points at some distance from the respective ski ends toward the center portion of the ski, and insets inserted into said slits and glued fast therein.

6. In a ski comprising tapering end portions, two slits extending substantially longitudinally of the ski throughout the whole width thereof, one of said slits commencing on the upper side of one of said end portions, and the other slit commencing on the upper side of the other one of said end portions, said slits extending from points at some distance from the respective ski ends toward the center portion of the ski, and wedge-shaped insets inserted into said slits and glued fast therein.

7. In a ski comprising tapering end portions, two slits extending substantially longitudinally of the ski throughout the whole width thereof, one of said slits commencing on the upper side of one

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of said end portions, and the other slit commencing on the upper side of the other one of said end portions, said slits extending from points at some distance from the respective ski ends toward the center portion of the ski, and wedge-shaped insets inserted into said slits and glued fast therein, the thinnest portions of said insets being directed inwardly toward the center portion of the ski.

8. In a ski comprising tapering end portions, two slits extending substantially longitudinally of the ski throughout the whole width thereof, one of said slits commencing on the upper side of one of said end portions, and the other slit commencing on the upper side of the other one of said end portions, said slits extending from points at some distance from the respective ski ends toward the center portion of the ski, and wedge-shaped insets inserted into said slits and glued fast therein, said insets projecting from said slits toward the respective ski ends tapering toward said ends and glued to the upper side thereof.

9. In a ski comprising a middle portion and tapering end portions, two slits extending substantially longitudinally of the ski throughout the whole width thereof, one of said slits commencing on the upper side of one of said end portions and the other slit commencing on the upper side of the other one of said end portions, said slits extending from points at some distance from the respective ski ends past one another at the middle portion of the ski, and insets inserted into said slits and glued fast thereon.

RAGNAR KJELLBERG.

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