Dec. 23, 1952 B. WITH 2,622,888

SKI BINDING

Filed May 13, 1949

Fig. 1.

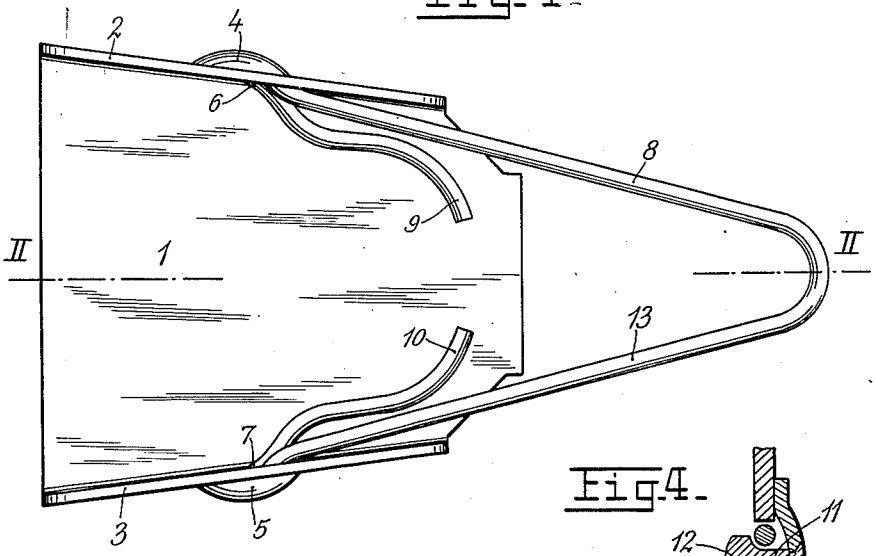


Fig. 4.

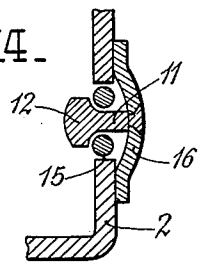


Fig. 2.

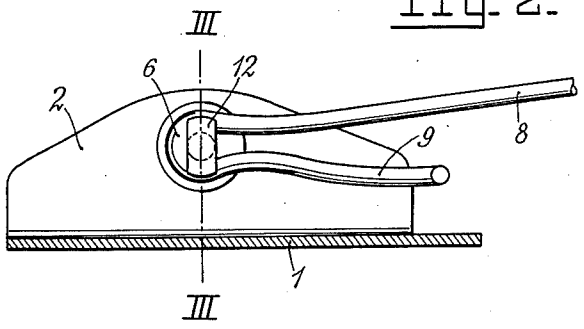
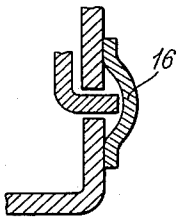


Fig. 5.



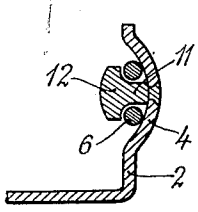


Fig. 3.

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UNITED STATES PATENT OFFICE

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SKI BINDING

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4 Claims. (Cl. 280—11.35)

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This invention relates to ski bindings of the type having swingably attached to the toe irons a lever or bail adapted to be swung down against the sole of the boot and thereby press said sole against the ski.

This bail may have the shape of a V or of a Y and the legs of the bail may be bent to hair-pin shape and may consist of resilient material.

Previously, in such bindings, the bail has been attached to the toe iron by being passed through a hole in the ear thereof, so that one part of the bail is situated outside of the toe iron ear and the other part, which is adapted to be pressed against the sole, is situated inside of the toe iron. In another known construction a pivot for the bail was provided at the inner side of the toe iron.

It is a drawback that parts of the bail are situated outside of the toe iron ear, and it is also a drawback having a pivot extending from the inner side of the toe iron.

It is an object of the present invention to eliminate said drawbacks and to provide a simple and reliable construction of a ski binding of the type mentioned.

The invention will be explained in connection with the drawing, which illustrates embodiments thereof by way of example.

Figure 1 is a view of a two-armed ski binding according to the invention, as seen from above.

Figure 2 shows a section taken along line II—II of Figure 1.

Figure 3 shows a section taken along line III—III of Figure 2.

Figure 4 shows a section similar to Figure 3, where the pinch bail is attached to a mounting on the toe iron.

Figure 5 shows, in a similar way as Figure 4, a modified embodiment.

On Figures 1–3 numeral 1 designates the toe iron proper, which is provided with erected lugs or ears 2, 3. On their inner surfaces said lugs are, according to the invention, provided outwardly directed depressions 4, 5, in which are housed the open looped portions 6, 7 of a pinch bail 8, 13. This bail has freely extending end portions 9, 10 of such shape that they may be pressed down against the former part of a shoe sole, eventually substantially to the front end of the shoe sole.

Within each of said depressions 4 and 5 is provided a pivot 11 having a head 12. This head preferably is of an oblong rectangular shape such that the bail may be easily detached therefrom in a certain position of the bail, for example when it has been brought to a substantially vertical position relatively to the surface of the toe iron 1 so as to pass out of the open portions of the loops 6, 7.

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Figure 4 illustrates an embodiment where the lug 2 of the toe iron is provided with an opening 15, and a member 16 enclosing said opening is secured at the outer side of the lug, this member carrying an inwardly extending pin 11, which forms a pivot for a pinch bail, which may have one or two arms. This pin may suitably be provided with a head 12 of the type described in connection with Figures 1–3.

Figure 5 illustrates a modification where the bail is, in a manner known per se, pivotable within a hole provided in the toe iron, and where a member 16 is secured to the outer surface of the toe iron, in a similar manner as shown on Figure 4.

The mounting of the bail or bails at the inner side of the toe iron lugs is such that no part of the mechanism of the binding protrudes outwardly or laterally of the inner surfaces of the toe iron lugs.

The members 16 in Figs. 4 and 5 constitute with the adjacent openings depressions forming seats for the swinging movement of the bail and when in clamped or released position.

I claim:

1. A ski binding including in combination a toe iron having side lugs provided on their inner surfaces with depressions, a pinch bail having looped portions journaled in the depressions and the depressions being shaped so as to cover the looped portions of the bail.

2. A ski binding including in combination a toe iron having side lugs provided on their inner surfaces with depressions, studs situated within the depressions and having vertically disposed oblong rectangular heads, a pinch bail having open looped portions journaled about the studs and situated within and housed by the depressions, the bail being releasable from the studs when the open looped portions are arranged vertically of the toe iron and parallel with the heads.

3. A ski binding including in combination a toe iron having side lugs provided on their inner surfaces with depressions, said depressions being constituted by holes in the toe iron lugs and cap-like protection members secured on the outer surfaces of the side lugs of the toe irons, and a pinch bail having its ends journaled in the depressions from points adjacent the inner surfaces of the side lugs of the toe iron.

4. A ski binding including in combination a toe iron having side lugs provided on their inner surfaces with depressions, and a pinch bail having its ends journaled completely within the depressions from points adjacent the inner surfaces of the side lugs of the toe iron and said depressions forming seats for the journalled ends of the bail during both the swinging and clamping movement of the bail.

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The following references are of record in the file of this patent:

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