April 13, 1926. 1,580,292

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SKI FITTING

Original Filed March 20. 1924

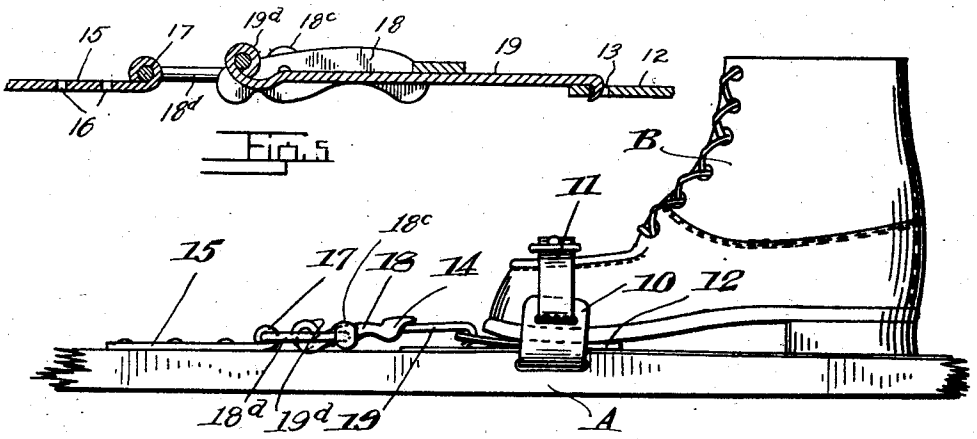


Fig. 5

Fig. 1.

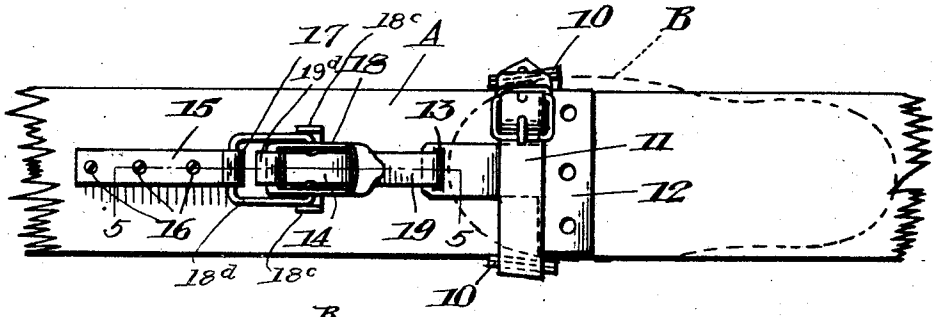


Fig. 2.

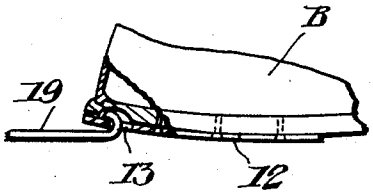


Fig. 4.

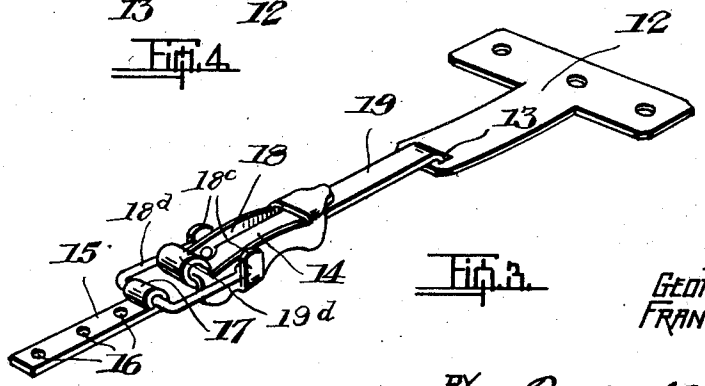


Fig. 3.

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UNITED STATES PATENT OFFICE.

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SKI FITTING.

Application filed March 20, 1924, Serial No. 700,612. Renewed December 30, 1925.

To all whom it may concern:

Be it known that we, GEORGE WASHINGTON EASDALE and FRANK WILFRED BEDARD, subjects of the King of Great Britain, and residents of the city of Ottawa, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Ski Fittings, of which the following is a specification.

This invention relates to improvements in ski fittings, and the objects of the invention are to provide an effective, durable and economically constructed device of this character for securely holding the boot of a ski-er on a ski.

Further objects are to provide, in combination with fastening means carried by a boot, flexible and adjustable securing means fixedly mounted on a ski and designed to engage with said boot, whereby the boot or otherwise of a ski-er is retained securely on the ski by being drawn tightly into the side plates and held there.

Still further objects are the provision of fastening means of this character that can be made of material that will not wear out, that will be of good appearance, and that will not in any way hamper the ski-er but, on the contrary, will greatly facilitate and add to the pleasure of ski-ing, and which can be fitted to any boot and ski.

Yet further objects are to provide a light ski fitting of this character that will almost entirely eliminate the use of straps.

Yet another object is the provision of a device of this description that will be readily adjustable and that, while being flexible, will not be cumbersome or likely to cause friction with snow, or to exert an unnecessary strain on any part of the foot of the wearer.

A still further object is the provision of a ski fitting of this character that can be much more economically manufactured and placed on the market than anything of the kind at present in use.

With the foregoing and other objects in view, the invention consists essentially in the device an embodiment of which is described in the present specification and illustrated by the accompanying drawings that form part of the same.

Referring now to the drawings, in which like characters of reference indicate corresponding parts in each figure:

Figure 1 is a side elevation of an embodiment of our improved ski fitting with a boot.

Figure 2 is a plan view with the boot shown in dotted lines.

Figure 3 is a perspective detail of the fitting detached from the ski.

Figure 4 is a detail of a modified form of the engaging means carried by the boot.

Figure 5 is a section on line 5—5 of Figure 2.

In the drawings, A designates a ski, and B a boot, while 10 indicates the side plates, of any well-known construction, between which the front of the boot fits, and which are provided with the usual toe strap 11. The toe of the boot, as here shown, has fixedly secured on the sole a T-shaped plate 12 protruding slightly beyond the toe of the boot and having a receiving opening 13 therein.

This plate constitutes one element in our improved fitting and, while it is here shown as secured in the sole of the boot and of T-shaped construction, it can be of any suitable material and is adapted to be carried by the boot in any convenient way. For instance, when the ski boot is being manufactured, it may be embedded in the sole of the boot and instead of, as here shown, protruding beyond the toe of the boot it may be, as shown in the modified form in Figure 4, carried in the sole of the boot, the essential feature of this element being that it is adapted to engage with an adjustable retaining member 14 secured on the ski and comprising a plate 15 designed, through openings 16 therein, to be fixedly mounted on the ski, and formed with a looped end 17 adapted to pivotally engage with a U-shaped member 18^a. This member 18^a is in turn pivotally connected at its outer ends to a tongue or lever member 18 formed with side flaps 18^c and in turn pivotally connected at its lower end with a plate or metallic strap 19, through an eye 19^a formed therein, the other end of the member 19 being bent to detachably engage with the boot carried plate 12. The tongue or lever member 18, it will be noted, is pivotally connected to the member 18^a, substantially midway of the length of the former, and, pivotally connected at its lower end to

the plate 19, will on being moved upwardly to a vertical position cause the strap 19 to move outwardly releasing the tension thereon while on the lever or tongue 18 being moved downwardly to the position as illustrated in the different figures, the plate 19 will be drawn backwardly thereby tensioning it and retaining it in a tensioned position, providing a steady pull forward on the boot to hold the boot securely between the side plates 10.

It is also possible with our improved fitting to dispense with the toe strap. The buckle on the ski fastenings being a tightening buckle, the pull on the boot to retain it securely within the plates is automatically continuous.

From the foregoing, the operation of our improved fitting will be apparent, and also the essential and novel features of it comprising a tightening buckle operatively mounted on the ski, in combination with engaging means carried by the boot, and means fixedly mount on the ski for holding the buckle, and adjustable means carried by the buckle and adapted to engage with the engaging means, all designed to exert a continuous and even pull on the forward part of a ski boot to retain it securely between the side plates on the ski.

As many changes could be made in the above construction and many apparently widely different embodiments of our invention, within the scope of the claims, constructed without departing from the spirit or scope thereof, it is intended that all matter contained in the accompanying specification and claims shall be interpreted as illustrative and not in a limiting sense.

What we claim as our invention is:

1. A ski-fitting of the character described, comprising engaging means on the ski boot, a plate rigidly secured to the ski and formed with a loop at one end, a yoke member adapted to pivotally engage with said loop, a lever pivotally connected to the yoke member and a strip pivotally mounted on the lever member and adapted to detachably engage with the engaging means on the boot whereby on said lever being moved to a vertical position and beyond, the boot engaging plate is moved outwardly and whereby on said lever being moved downwardly to a horzontal position, the boot engaging plate is tensioned.

2. In a device of the character described, the combination with engaging means on the ski and boot, of a yoke pivotally connected to the ski, a tongue pivotally connected to the yoke, a strip or plate pivotally connected to the tongue and adapted to detachably engage with the engaging means on the boot.

3. The combination with a pair of rigidly mounted plates of a yoke pivotally mounted on one of said plates and a lever swingingly mounted in said yoke and a plate pivotally mounted on the lever and adapted to detachably engage with one of said pair of plates.

In witness whereof we have hereunto set our hands.

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