

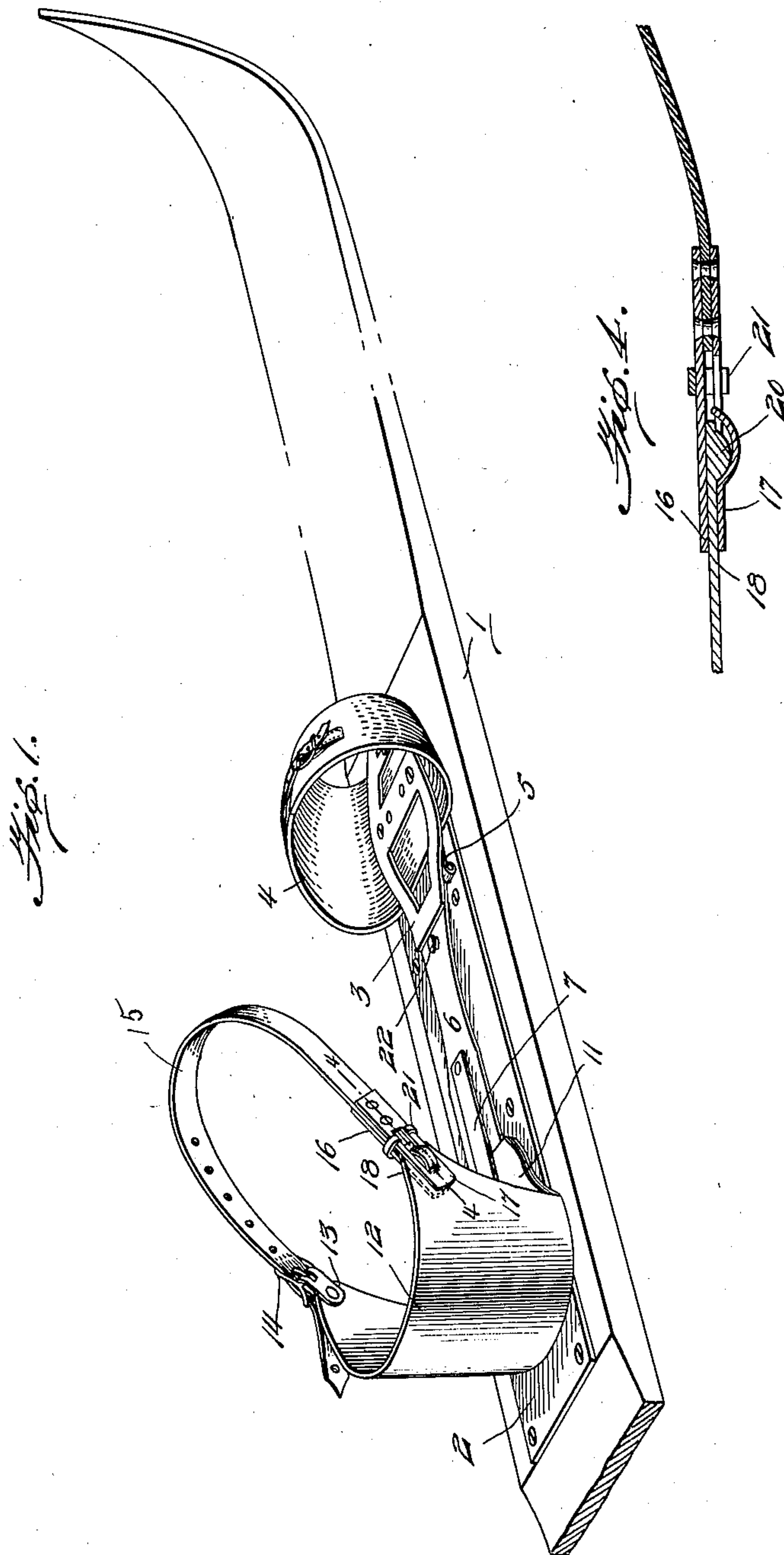
No. 891,363.

PATENTED JUNE 23, 1908.

C. NORDLANDER.
SKEE STIRRUP.

APPLICATION FILED MAR. 9, 1908.

2 SHEETS—SHEET 1.



Witnesses

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C. E. Eureka

Inventor

Carl Nordlander

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Attorney

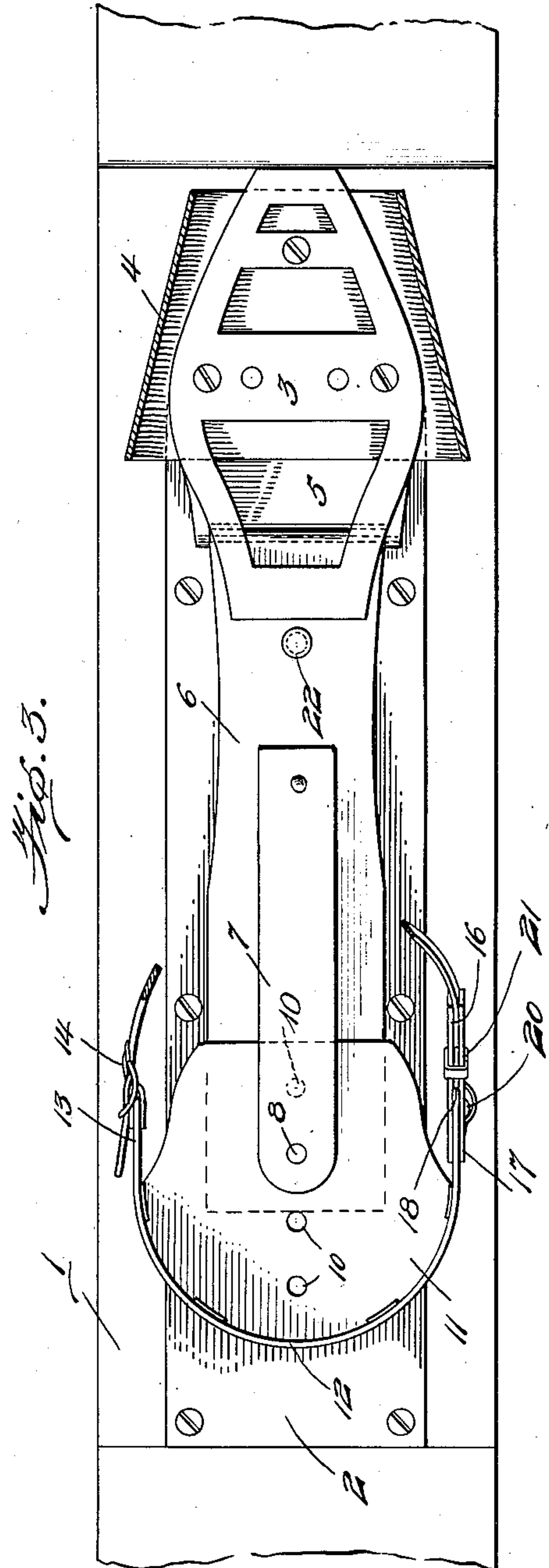
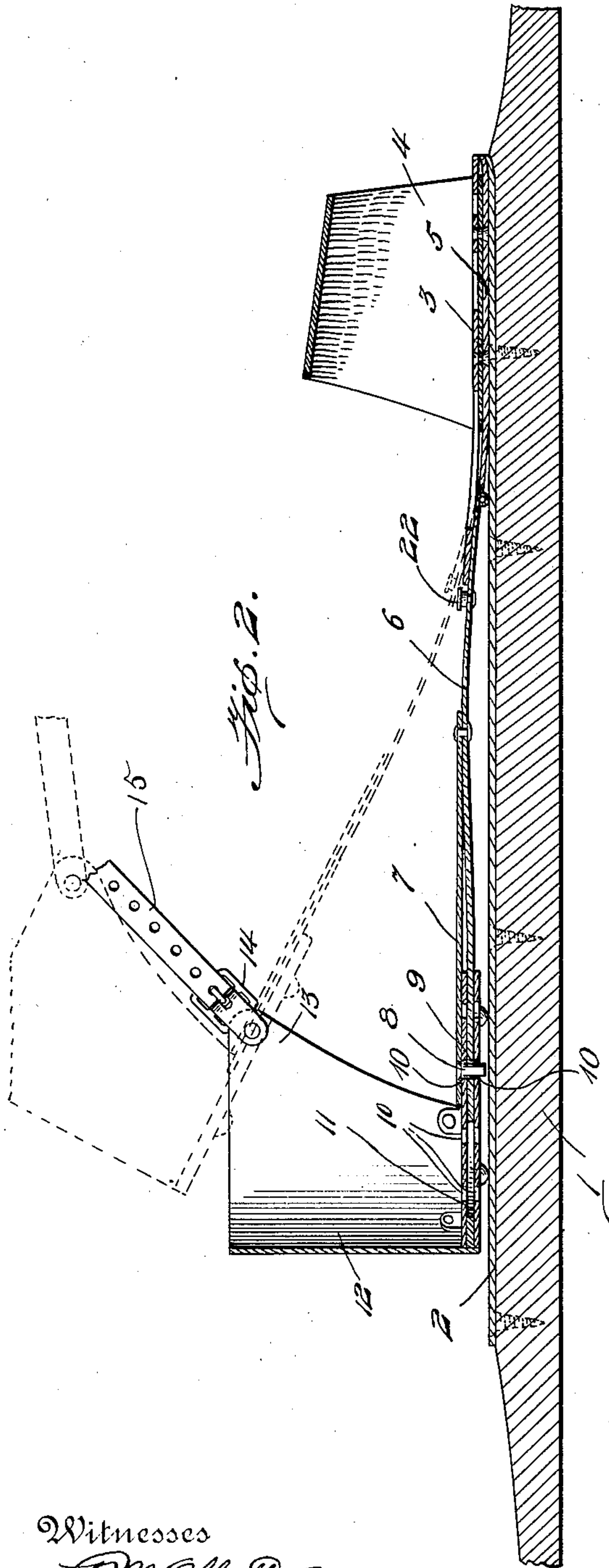
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Witnesses
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CARL NORDLANDER, OF NORWAY, MICHIGAN.

SKEE-STIRRUP.

No. 891,363.

Specification of Letters Patent.

Patented June 23, 1908

Application filed March 9, 1908. Serial No. 420,016.

To all whom it may concern:

Be it known that I, CARL NORDLANDER, a subject of the King of Sweden, residing at Norway, in the county of Dickinson and State of Michigan, have invented certain new and useful Improvements in Skee-Stirrups; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to skee stirrups and especially to that class of devices shown in my Patent No. 870,741, of Nov. 12th, 1907.

The object of the present invention is to provide a device of this character which will prevent serious results from accidental falls, it being the particular object to release the user of the skee.

A further object of the invention is the provision of novel means for holding the ankle strap to the heel plate so as to allow disengagement thereof upon undue strain being exerted thereon, and means to accentuate the action when the foot of the user assumes such a position with relation to the runner that a fall is unavoidable.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a perspective view; Fig. 2 a longitudinal section; Fig. 3 a top plan view partly in section; Fig. 4 is a fragmentary diagonal section taken on the line 4—4 of Fig. 1.

Referring more especially to the drawings, 1 represents the skee runner upon the top of which adjacent its center is secured in any suitable manner the stirrup plate 2. At the forward end of the stirrup plate I secure by rivets or otherwise the toe plate 3 having the toe strap 4 secured thereto by an auxiliary plate 5 arranged beneath the toe plate and having pivoted thereto the rearwardly extending shank plate 6. This plate extends rearwardly for some distance from the toe plate and is provided with a spring arm 7 having upon its rear end a locking stud 8 adapted to pass through an aperture 9 in the shank plate 6 to engage apertures 10 formed in the heel plate 11. There is a plurality of these apertures extending from the front of the heel plate to a point adjacent the counter

plate 12 so that the heel plate and its associated counter may have side adjustment with respect to the distance to or from the toe plate and its associated toe strap. This is done in order to adapt the device for different sized shoes. Secured to the left hand ear 13 of the plate 12 is the strap buckle 14 which holds the ankle strap 15 in adjusted position. The opposite end of the strap has secured thereto a pair of plates 16 and 17 extending some distance beyond the strap parallel to each other so as to overlie the right ear 18 of the counter plate. The lower or inner plate is perfectly plane throughout its length but the upper plate 17 has stamped up out of its body a curvilinear arm which forms a cam surface adapted to be engaged by a conical stud 20 carried upon the ear 18. A stud clamping member 21 surrounds the plates 16 and 17 and is adapted to slide thereover to increase their pressure upon the ear 18 and make the disengagement of the upper plate 17 with the conical lug more or less difficult as the case may require.

This device has sufficient hold upon the counter plate to prevent any disengagement, except where extreme conditions occur and strains beyond the normal are brought to bear upon the strap.

It will be seen that when the heel of the wearer is held upon the heel plate by the strap 15 that the shank plate will be held in adjustable engagement therewith by reason of the heel engaging the spring arm and holding its contact stud in engagement with the apertures 10 of the heel plate. The heel plate being free of the mounting plate 2 is free to move with the shank plate as it pivots upon its hinge connection with the auxiliary plate 5.

When the operator or user of the skee after a jump or a fall has the toe of the skee runner engage the ground prior to the rest of the runner, the heel of the wearer leaves the runner and rises with the shank plate on its pivot. At this time it is almost impossible to avoid a fall and disengagement of the foot from the stirrup is absolutely necessary. In order to provide for such accidents, I extend the heel of the toe plate 3 a suitable distance beyond the hinge connection of the shank plate with the auxiliary plate so that it overlies the same in position to engage an upstanding stud 22 which stops the upward movement of the shank plate and thereby

throws additional strain upon the strap. This additional strain is sufficient to disengage the plates from the ear 18 of the counter and thus releasing the operator's foot there-
5 from. The foot readily slips out of the toe strap when thus disengaged and the user is free to take any movement he may see fit in respect to the position of the runners.

From the foregoing description, taken in
10 connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion
15 and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention, as defined in the appended claims.

20 I claim as my invention:—

1. In a skee stirrup a toe plate and a heel plate, means to secure the foot to the toe plate, means disengageable from the heel plate upon an excess strain for securing the

heel to said heel plate and means to adjust 25
said heel securing means.

2. In a skee stirrup, a toe plate and a heel plate, a toe strap for securing the foot to the toe plate, a heel plate and a pivoted shank plate adjustably connected to the heel plate. 30

3. In a skee stirrup, a front plate, means for securing the foot of the wearer thereto, an auxiliary plate secured to the other side of the toe plate, a heel plate, means for securing the wearer's foot to the heel plate said means 35
being disengageable from the heel plate upon an excess strain being applied thereto, and means carried by the shank plate and acting in conjunction with the toe plate to accentuate the strain when said conditions 40
apply.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CARL NORDLANDER.

Witnesses:

LOUIS GEHINE Jr.,
DAVID W. MARTIN.