

J. BYSTROM.
SLED RUNNER.
APPLICATION FILED AUG. 11, 1909.

954,377.

Patented Apr. 5, 1910.

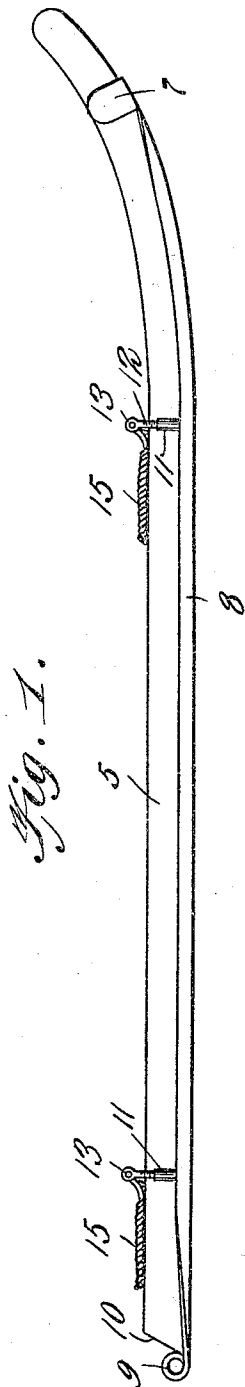


Fig. 1.

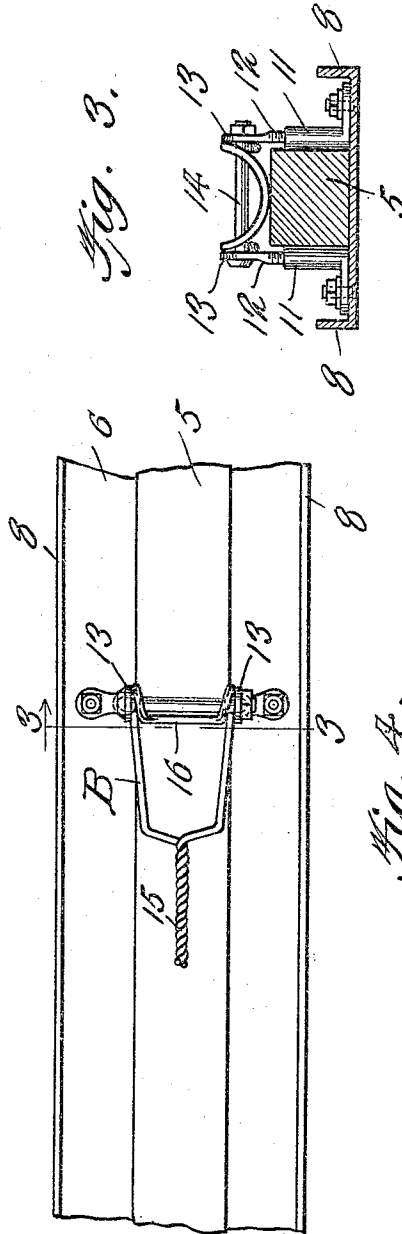


Fig. 2.

Fig. 3.

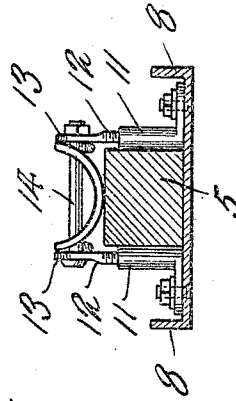
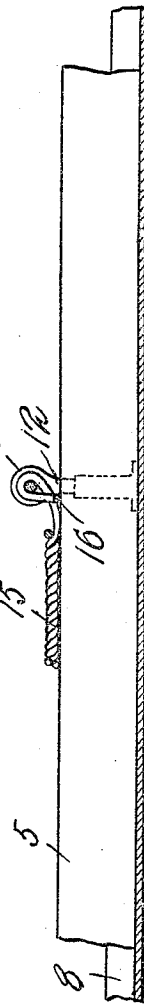


Fig. 4.



Witnesses

Frank B. Hoffman.
John Wagner.

Inventor
Jonas Bystrom

By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

JONAS BYSTROM, OF TOWER, MINNESOTA.

SLED-RUNNER.

954,377.

Specification of Letters Patent.

Patented Apr. 5, 1910.

Application filed August 11, 1909. Serial No. 512,423.

To all whom it may concern:

Be it known that I, JONAS BYSTROM, a citizen of the United States, residing at Tower, in the county of St. Louis and State of Minnesota, have invented new and useful Improvements in Sled-Runners, of which the following is a specification.

This invention relates to sled runners and it has for its object to provide a sled runner of ordinary construction with a shoe of unusual width.

A further object of the invention is to provide simple and improved means whereby a shoe of unusual width may be detachably connected with an ordinary sled runner in a simple and efficient manner.

Further objects of the invention are to simplify and improve the construction and operation of a device of this character.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawing has been illustrated a simple and preferred form of the invention; it being however understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawing: Figure 1 is a side elevation of a sled runner equipped with the invention. Fig. 2 is a top plan view of a portion of the device. Fig. 3 is a transverse sectional view taken on the plane indicated by the line 3—3 in Fig. 2. Fig. 4 is a longitudinal sectional elevation.

Corresponding parts in the several figures are denoted by like characters of reference.

5 designates a sled runner of ordinary construction. 6 is a shoe for said runner which is made of unusual width for the purpose of preventing the runner from sinking too deeply into snow when the latter is still soft and unpacked; in the example illustrated a shoe has been shown of a width approximately three times that of the runner, but the proportions may be varied at will. The width of the shoe is reduced toward

the front end where said shoe is provided with lugs 7 abutting upon the sides of the runner. The side edges of the shoe are provided with upturned flanges 8; and the rear end of the shoe is provided with an upturned coil 9 abutting upon the rear end of the runner which is beveled, as shown at 10 to engage the coil 9 which will thus operate in the capacity of a spring clasp or fastening device.

The runner is supported upon the upper side of the shoe, the latter being connected with the runner by means which I shall now proceed to describe. At intervals upon the runner are mounted pairs of upstanding sockets 11 in which screw-threaded rods are vertically adjusted, said rods being provided at their upper extremities with terminal eyes 13 in which pins or bolts 14 extending transversely above the runner are supported. Each pin or bolt 14 constitutes the fulcrum of a suitably constructed cam lever B having a handle 15 and a lip or cam 16, the latter being adapted to bear upon the upper side of the runner when the handle 15 is depressed. Adjustment to runners of various dimensions may be had by detaching the fulcrum pins 14 after which the rods 12 may be vertically adjusted and the parts reassembled.

Having thus described the invention, what is claimed is—

1. A runner, a shoe for the same, a fulcrum member adjustably connected with the shoe said fulcrum member extending across and spaced from the runner, and a cam lever mounted upon the fulcrum member.

2. A runner, a shoe, vertically adjustable rods connected with the shoe and having terminal eyes, a fulcrum member supported in the eyes, and a runner engaging cam lever mounted upon the fulcrum member.

3. A runner, a shoe, a pair of sockets supported upon the shoe, screw threaded rods adjustable in the sockets and having eyes at their upper ends, a pin supported in the eyes, and a cam lever fulcrumed upon the pin.

In testimony whereof I affix my signature in presence of two witnesses.

JONAS ^{his} BYSTROM.
mark

Witnesses:

O. W. AKERSON,
ANDREW BYSTROM.