

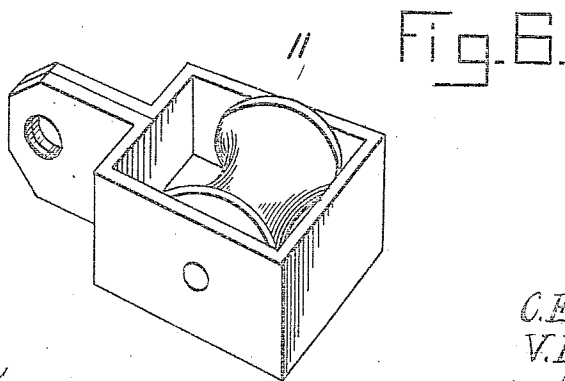
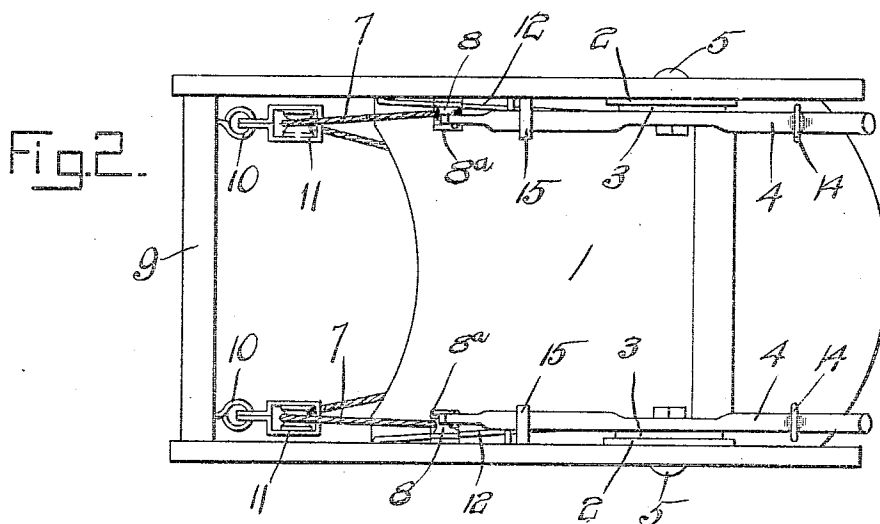
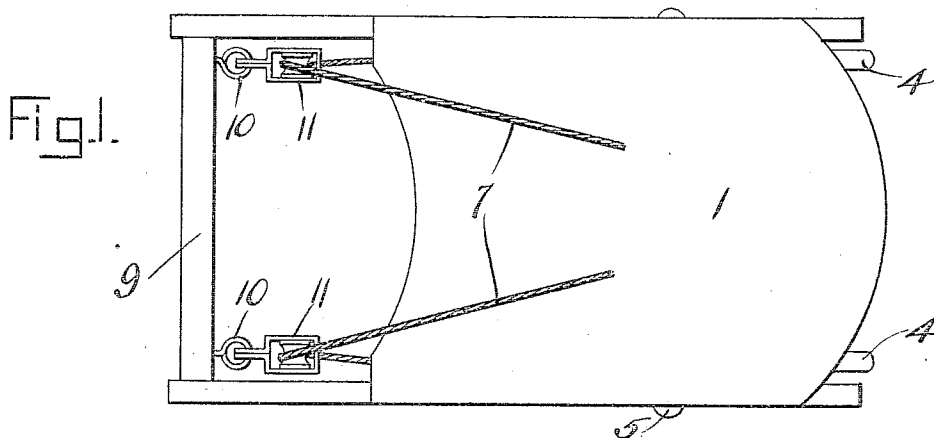
C. E. YNDERO & V. K. YNDEARO.
SLEIGH BRAKE.

APPLICATION FILED OCT. 17, 1908.

953,656.

Patented Mar. 29, 1910.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 3.

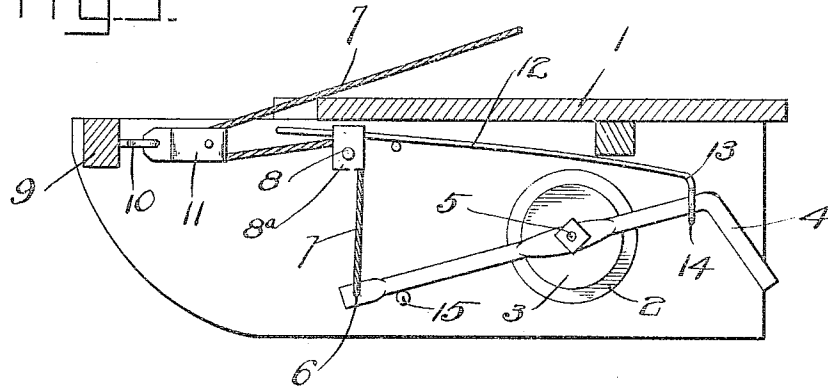


Fig. 4.

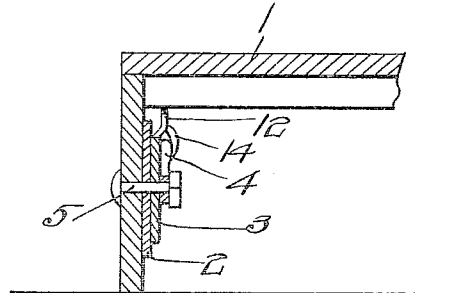
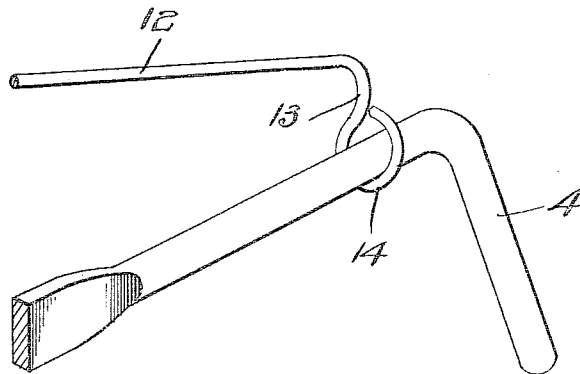


Fig. 5.



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UNITED STATES PATENT OFFICE.

CHARLES E. YNDERO AND VIVIAN K. YNDEARO, OF ABERDEEN, WASHINGTON.

SLEIGH-BRAKE.

953,656.

Specification of Letters Patent.

Patented Mar. 29, 1910.

Application filed October 17, 1908. Serial No. 458,314.

To all whom it may concern:

Be it known that we, CHARLES E. YNDERO and VIVIAN K. YNDEARO, citizens of the United States, residing at Aberdeen, in the county of Chehalis and State of Washington, have invented a new and useful Sleigh-Brake; and we do hereby 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.

The invention relates to improvements in brakes for sleighs, and has for its object to provide a device of this character adapted to be applied to sleighs of all kinds and sizes and which is capable of regulating the speed of a sleigh in going down grade or of stopping the same entirely.

Another object of the invention is to provide a pair of improved brakes, one applied to each of the runners of the sleigh and capable of being actuated independently of each other.

With these and other objects in view, the invention consists in the novel construction and arrangement of parts hereinafter described and shown and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a plan view of a sleigh embodying our invention. Fig. 2 is a plan view showing the sleigh inverted. Fig. 3 is a longitudinal sectional view through the sleigh. Fig. 4 is a transverse sectional view taken through one of the brakes at the pivot. Fig. 5 is an enlarged view of the looped end of one of the springs. Fig. 6 is an enlarged detailed view of one of the front pulleys.

Referring to the drawings, 1 designates the body or frame of an ordinary sleigh. Each side of the sleigh is provided with a disk 2 on which is arranged a washer 3. 4 is an L-shaped brake lever. The disk, the washer, and brake-lever are pivoted to the side or runner of the sleigh by a bolt 5. The front end of the lever 4 is provided with an eye 6 to which is connected a cable 7. Cable 7 travels over a pulley 8 which pulley is rigidly connected to the side or runner of the sleigh. The front beam or draft beam

9 of the sleigh is provided with a pair of hooks 10, each of which is connected with a pulley 11 which is also engaged by the cable 7. When it is desired to apply the brakes, the cable 7 is drawn rearwardly which raises the front end of the lever and causes the rear post to engage the ground or snow and thus check the speed of the sleigh or stop it entirely.

The pulley 8 is provided with a casing 8^a which casing serves as a guide in preventing the cable from slipping off of said pulley. The casing 8^a also serves as a fulcrum for a spring 12 which is provided with an L-shaped portion 13, the extremity of which is provided with a loop 14 which engages the lever 4. When the brakes 4 are applied, it will be seen that the loop 14 admits of a slidable engagement with said brake or lever, as will be readily understood. The spring 12 holds the lever normally out of engagement, and the pressure of the spring is limited by a lug 15.

Having thus described the invention, what is claimed is:

1. A device of the class described, consisting of a pair of runners, an L-shaped brake lever pivoted to each of said runners a cable secured to said levers, said cable passing through pulleys rigidly secured to said runners and thence through pulleys which are loosely mounted upon a cross beam which connects the ends of the runners, a spring secured at one end to each runner the other end terminating in a loop adapted to surround the brake lever, said loop being adapted to slide upon the lever when the same is actuated.

2. A device of the class described, consisting of a pair of runners, an L-shaped brake lever pivoted to each of said runners, a washer interposed between each lever and the runner at the pivot point, a cross beam connecting the ends of the runners, a pair of pulleys mounted upon said cross beam, a pulley secured to each of the runners, a cable adapted to pass through both sets of pulleys, the ends of said cable being attached to the ends of the brake levers, said cable being adapted to actuate said levers, a spring se-

cured at one end to each runner the other
end terminating in a loop which is adapted
to surround the brake lever and return the
same to its normal position after it has been
forced down by the cable, and a lug adapted
to limit the pressure of the spring.

In testimony whereof we have signed our

names to this specification in the presence of
two subscribing witnesses.

CHARLES E. YNDERO.
VIVIAN K. YNDEARO.

Witnesses:

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