

No. 865,693.

PATENTED SEPT. 10, 1907.

A. FROMHERZ.
LOG GUIDE FOR LOG SKIDS.
APPLICATION FILED JULY 8, 1907.

Fig. 1.

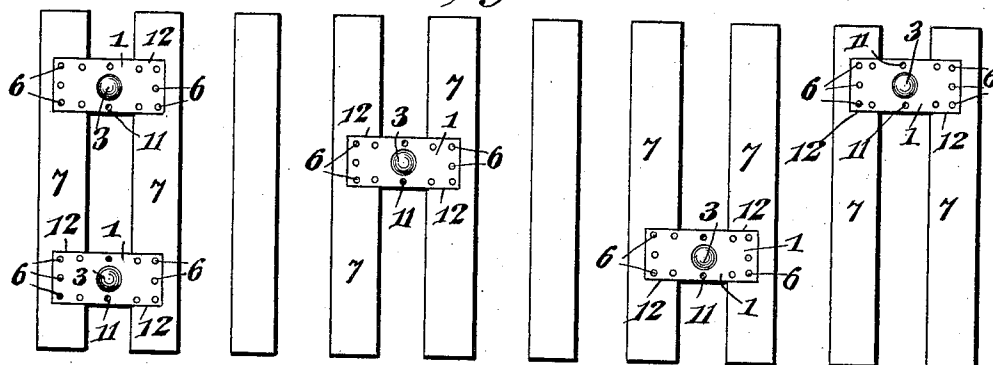


Fig. 2.

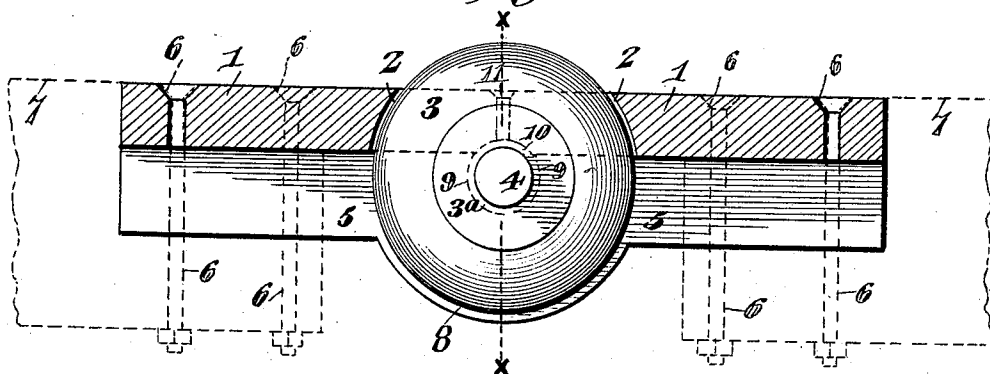


Fig. 3.

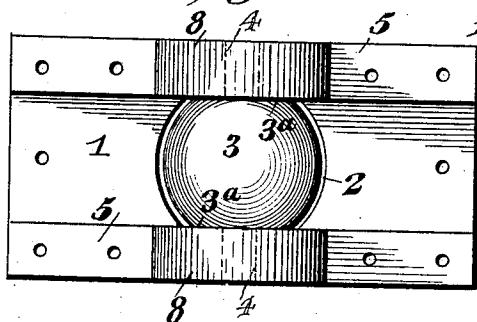
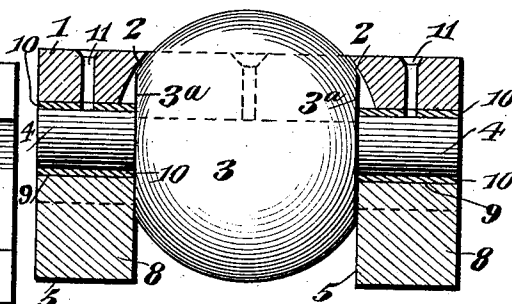


Fig. 4.



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LOG-GUIDE FOR LOG-SKIDS.

No. 865,693.

Specification of Letters Patent.

Patented Sept. 10, 1907.

Application filed July 8, 1907. Serial No. 382,742.

To all whom it may concern:

Be it known that I, ADOLF FROMHERZ, a citizen of the United States, residing at Montesano, in the county of Chehalis and State of Washington, have invented a new and useful Log-Guide for Log-Skids, of which the following is a specification.

The invention relates to a log guide for log skids.

The object of the present invention is to provide a simple, inexpensive and efficient log guide, adapted to effect a great saving in time, labor and expense in handling logs at lumber camps and designed for use at curves and at the high and low places of log skids, and capable of enabling logs to slide freely along a skid and follow the cable at such curves and high and low places, whereby the logs will be prevented from either tearing up the skid, or catching in trees and breaking the cable.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a plan view of a portion of a skid or skid road provided with log guides, constructed in accordance with this invention. Fig. 2 is an enlarged longitudinal sectional view, illustrating the construction of one of the guides. Fig. 3 is a reverse plan view. Fig. 4 is a transverse sectional view, taken substantially on the line $x-x$ of Fig. 2.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

The log guide, which is designed for use on log skids of lumber camps, in practice, is arranged at high and low places and at curves and various other points, and it is adapted to permit a log to move freely over and follow the skid, whereby the log is prevented from either tearing up the skid, or striking against trees and causing the cable to break. The guides may be arranged in pairs at diametrically opposite points of the skid, or at the center, or they may be alternately arranged at opposite sides, as clearly shown in Fig. 1. The guide embodies a plate 1 having a central circular aperture 2 to permit a ball 3 to project above the upper face of the plate. The opening 2, which is circular, is tapered to conform to the configuration of the upper portion of the ball, which is mounted on a transverse shaft or journal 4 in suitable bearings of side bars or members 5. The ball has flattened side faces 3^a and the top portion, which protrudes through the aperture, presents a smooth surface to the log at all points. The side bars or mem-

bers 5 are secured to the plate at the side edges thereof by means of bolts 6, which also pierce the adjacent transverse logs or ties 7 and which have their heads counter-sunk in the top plate 1. The side bars or members 5 are provided with depending segmental portions 8, which extend downward beyond the plane of the bottom of the ball, as clearly illustrated in Figs. 2 and 4 of the drawing. The side bars or members are provided at their upper edges with central transverse bearing recesses 9, having Babbitt metal linings 10 and receiving the ends of the transverse shaft or spindle 4, and the plate is provided above the bearings 9 with bores or passages 11 to permit the shaft or spindle to be lubricated.

The transverse ties or logs 7 of the skid are embedded in the ground in the usual manner, and the ends of the plate 1 and the side bars or members 5 are fitted in recesses 12 of the said logs or ties 7, the upper face of the plate being flush with the upper faces of the said logs or ties, so that the top of the ball, which protrudes through the central opening 2 of the top plate, projects above the surface of the skid and is adapted to contact with or be engaged by the logs hauled over the skid. The protruding portions of the anti-friction balls enable the logs to slide freely along and follow the cable, and the logs are thereby prevented from either injuring the skid, or breaking the cable by striking against trees or stumps at either side of the skid.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A log guide for log skids comprising a top plate provided with an aperture, side bars or members depending from the lower face of the top plate and provided with bearing openings located at opposite sides of the said aperture, a shaft or spindle mounted in the bearing openings and extending across the space between the side bars or members, and a ball mounted on the shaft or spindle and arranged to protrude through the said aperture, whereby it is adapted to project above the surface of a skid.

2. The combination with spaced logs or ties of a log skid having corresponding recesses, of a log guide embodying a top plate having an aperture and side bars or members secured to the top plate and provided with bearings, said side bars or members and the top plate being arranged in the said recesses and the top plate having its upper face flush with the surface of the skid, a shaft or spindle arranged in the said bearings, and a ball mounted on the shaft and protruding through the aperture of the top plate and extending above the surface of the skid.

3. A log guide for log skids comprising a top plate designed to be arranged flush with the surface of a log skid and provided with a central aperture tapered upwardly from the lower face of the plate, side bars or members supporting the said plate and having opposite bearings, said bars or members being also provided with central depending portions, a shaft or spindle arranged in the said bearings, and a ball having flattened side faces and mounted on the shaft or spindle, the upper portion of

the said ball protruding through the opening of the plate and the bottom of the ball terminating short of the lower edges of the said depending portions.

5 4. The combination with spaced ties, of plates connecting the ties and carrying balls.

5. The combination with spaced ties having corresponding recesses, of plates carrying balls and connecting the ties and seated in the recesses thereof, said balls being arranged to project above the surface of the ground and

being supported out of contact with the same by the 10 said ties.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ADOLF FROMHERZ.

Witnesses:

THOMAS CONNOR,
JOHN WILSON PETTICORN.