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H. PRINS

ROPE HOLDER

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Fig. 1.

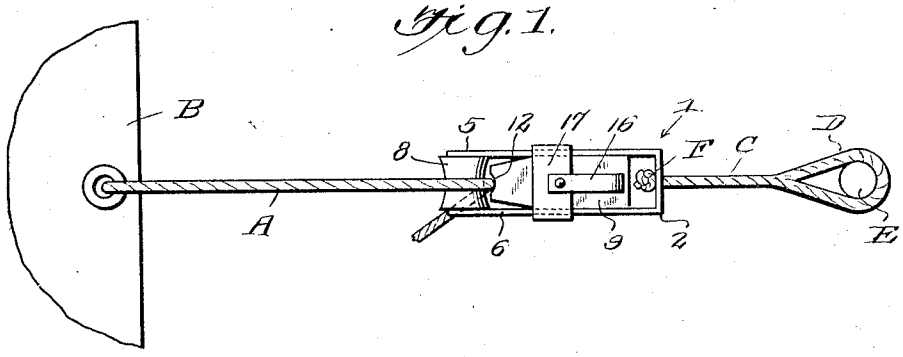
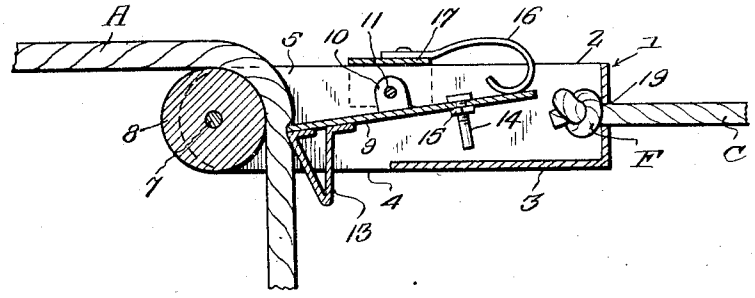


Fig. 2.



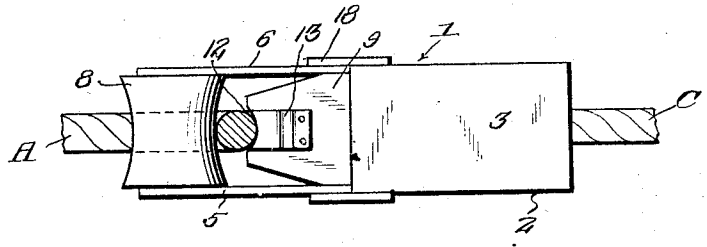


Fig. 3.

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UNITED STATES PATENT OFFICE.

HENRY PRINS, OF HOLLAND, MICHIGAN.

ROPE HOLDER.

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The present invention relates to improvements in cord and rope holders, and is more particularly adapted to a device which will hold a rope in its tightened position.

One of the important objects of the present invention is to provide a rope holder wherein means is provided for enabling the slack in the rope to be readily taken up and the rope then held in a taut position.

A still further object is to provide a rope holder which is simple in construction, inexpensive, strong and durable, and further well adapted to the purpose for which it is designed.

Other objects and advantages of the invention will become apparent as the nature of the invention is better understood, and taken in connection with the accompanying drawing.

In the accompanying drawing forming a part of this application and in which like numerals designate like parts throughout the several views:

Figure 1 is a top plan view of the rope holder embodying my invention, showing the same associated with a tent securing rope.

Figure 2 is an enlarged longitudinal sectional view through the device, and

Figure 3 is a bottom plan view thereof.

In the drawing, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates generally my improved rope holder, the same comprising the casing 2 which is open at its top and also at its forward end, the bottom 3 of the casing being cut away at its forward portion as indicated at 4, for a purpose to be hereinafter more fully described. A relatively small shaft 5 extends transversely between the free ends of the sides 5 and 6 respectively of the casing 2, and this shaft is designated by the numeral 7. A grooved pulley 8 is loosely mounted on the shaft or pin 7, and is free to rotate between the forward ends of the sides 5 and 6 of the casing 2.

The plate-like lever 9 is provided at its intermediate portion with the upstanding gears 10 which are disposed adjacent the respective side edges of the lever, and a suitable pivot pin 11 extends through the intermediate portion of the sides 5 and 6 of the casing 2 adjacent the upper edges of the sides, and through the upstanding gears 10 whereby the lever is supported within the casing of the rope holder 1.

The forward edge of the lever 9 has formed therein the notch 12 as is clearly shown in Figure 3 of the drawing. Secured to the underside of the forward portion of the plate-like member 9 is the finger piece 13, the same being formed preferably of sheet metal and bent into substantially triangular shape. This finger piece 13 extends downwardly through the cut out portion 4 of the casing, and as is also clearly shown in Figure 3 of the drawing, the upper forward portion of the finger piece 13 is rounded to conform with the notch 12 formed in the forward edge of the lever 9.

For the purpose of limiting the downward swinging movement of the rear portion of the lever 9, I provide the stop member 14. This stop member is in the form of a bolt which extends through the suitable opening provided therefor in the rear portion of the plate like lever 9, the head of the bolt being adapted to engage the upper face of the lever, and a suitable lock nut 15 is threaded on the threaded shank of the bolt and engages the under side of the plate like lever 9 for holding the bolt in any vertically adjusted position.

Also forming a part of the present invention is the leaf spring 16, the same being secured at one end on top of the strip 17 which extends transversely across the upper edges of the sides 5 and 6 of the casing 2, and the respective ends of this strip are disposed downwardly as illustrated at 18, and the bolt or pivot 11 extends through the downwardly disposed portions 18 of the strip for maintaining the same in proper position on the casing. The free end of the spring 16 is curved and bears against the upper face of the inner portion of the plate like lever in the manner clearly shown in Figure 2 for the purpose of normally holding the forward end of the lever in locking engagement with the rope, the free end of which is disposed over the pulley 8, and then extends downwardly through the cut out portion 4 of the casing.

In the present instance, I have shown the rope holder as associated with a tent securing means wherein the rope A has one end attached to the tent B in the usual manner, the free end of this rope being trained over the pulley A and thence downwardly

between the pulley and the forward end of the lever 9, the notch 12 being adapted to engage the rope and due to the action of the spring 16, the rope will be held taut due to the clamping action of the forward end of the lever and its cooperation with the pulley 8.

The rope C which is provided with a suitable eye D and which eye portion extends around the stake E which is driven into the ground has its free end disposed through a suitable opening 19 provided therefor in the rear end of the casing 2 and knot F is formed on the free end for preventing the disengagement of the casing from the rope C.

Whenever it becomes necessary to take up any slack which may occur in the rope A, the finger piece 13 is moved downwardly against the tension of the spring 16, and the free end of the rope A is then pulled downwardly over the pulley 8 and by releasing the finger piece 13, the forward end of the lever will again be brought into clamping engagement with the rope, and thus hold the same in its tightened position.

While I have shown the rope holder as associated with a tent securing means, it is to be understood that the same may be also used in connection with hay and grain stack covers, and further wherever it is found necessary to employ such a device.

The simplicity of my improved rope holder enables the same to be readily and easily adjusted, and will at all times be positive and efficient in holding the rope or cable in a taut manner.

While I have shown the preferred embodiment of my invention it is to be understood that minor changes in the size, shape, and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claims.

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

1. A rope holder comprising a casing, the forward portion of the bottom thereof being cut away, a grooved pulley supported in the forward end of the casing, and over which the free end of the cable is adapted to extend, the free end of the cable extending downwardly through the cut out portion of the bottom of the casing, a lever pivotally supported intermediate its ends in the intermediate portion of the casing, the forward end of the lever being provided with a notch for engagement with the rope which extends over the pulley, and resilient means coacting with the rear end portion of the lever for normally holding the forward end of the lever in clamped engagement with the rope.

2. A rope holder comprising a casing, the forward portion of the bottom thereof being cut away, a grooved pulley supported in the forward end of the casing, and over which the free end of the cable is adapted to extend, the free end of the cable extending downwardly through the cut out portion of the bottom of the casing, a lever pivotally supported intermediate its ends in the intermediate portion of the casing, the forward end of the lever being provided with a notch for engagement with the rope which extends over the pulley, resilient means coacting with the rear end portion of the lever for normally holding the forward end of the lever in clamped engagement with the rope, and a finger piece depending from the forward portion of the lever and extending through the cut out portion of the bottom of the casing to facilitate the disengagement of the lever with the rope.

3. A rope holder comprising a casing, the forward portion of the bottom thereof being cut away, a grooved pulley supported in the forward end of the casing, and over which the free end of the cable is adapted to extend, the free end of the cable extending downwardly through the cut out portion of the bottom of the casing, a lever pivotally supported intermediate its ends in the intermediate portion of the casing, the forward end of the lever being provided with a notch for engagement with the rope which extends over the pulley, resilient means coacting with the rear end portion of the lever for normally holding the forward end of the lever in clamped engagement with the rope, a finger piece depending from the forward portion of the lever and extending through the cut out portion of the bottom of the casing to facilitate the disengagement of the lever with the rope, and a stop member carried by the rear portion of the lever and coacting with the bottom of the casing for limiting the swinging movement of the lever in one direction.

In testimony whereof I affix my signature.

HENRY PRINS.