T. SUCHLA.

HARNESS HOLDER.

APPLICATION FILED JAN. 5, 1917. RENEWED JUNE 26, 1918.

1,292,533. Patented Jan. 28, 1919.

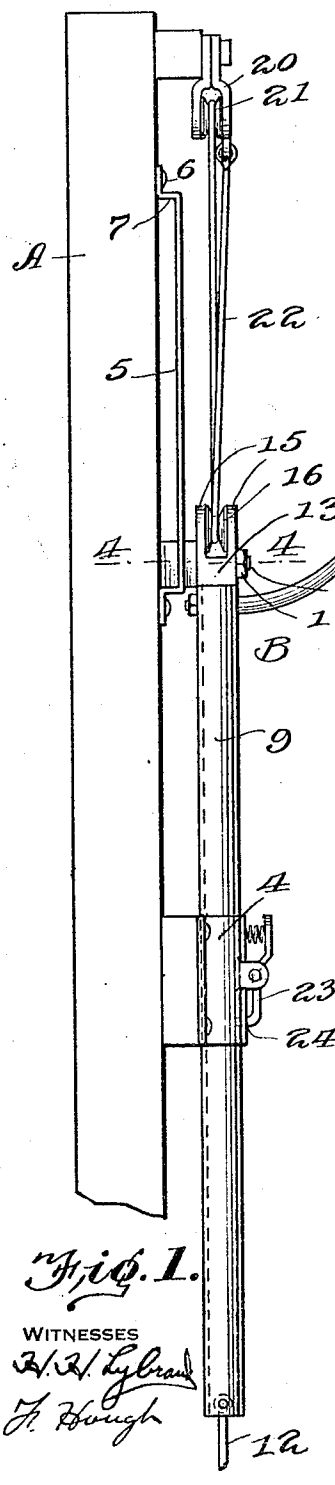


Fig. 1.

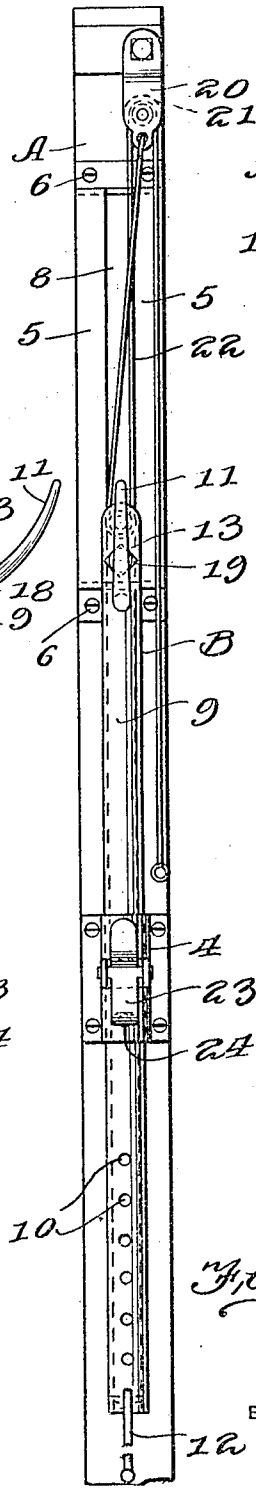


Fig. 2.

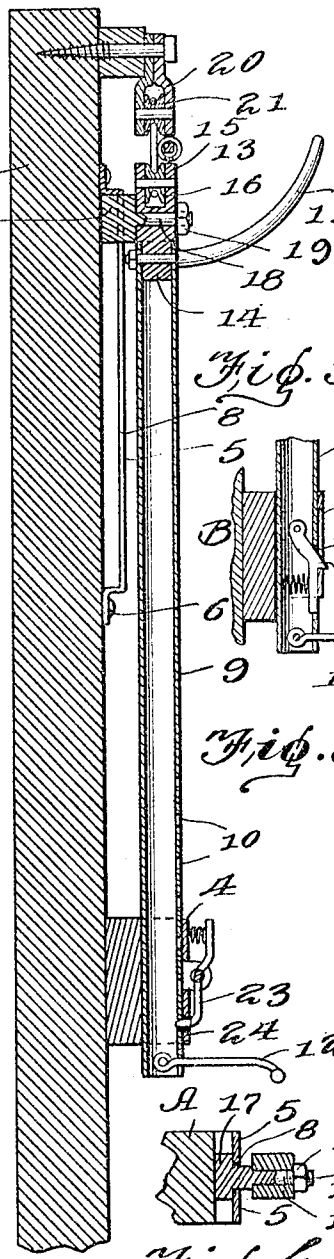


Fig. 5.

Fig. 3.

Fig. 4.

WITNESSES

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HARNESS-HOLDER.

1,292,533. Specification of Letters Patent. **Patented Jan. 28, 1919.**

Application filed January 5, 1917, Serial No. 140,800. Renewed June 26, 1918. Serial No. 242,095.

To all whom it may concern:

Be it known that I, THOMAS SUCHLA, a citizen of the United States, residing at Courtenay, in the county of Stutsman and State of North Dakota, have invented new and useful Improvements in Harness-Holders, of which the following is a specification.

This invention relates to a holder which is especially adapted to serve as a support for harness when not in use, although the construction of the holder is such that it may be advantageously used for this purpose in connection with other articles if found desirable.

The primary object of the invention is to provide a holder of this character which is so constructed that when connected with a support, such as a wall of a stable, or the like, the harness hung upon the support may be raised and supported in an elevated position by the support until again required for use at which time the harness may be lowered within convenient reach by suitable mechanism for this purpose forming part of the holder.

Another object of the invention is to provide a support in which a shaft having a harness carrying arm thereon is slidably mounted in bearings for connecting the same with a support and also has connection with suitable mechanism for sliding said shaft in said bearings to cause the arm to elevate the harness hung thereon.

A still further object of the invention is to provide one of said bearings with suitable latch mechanism engageable with said shaft to lock the same against sliding movement, so that the shaft may be locked in raised, or lowered position, or in any position intermediate therebetween.

With these and other objects in view, the invention resides in the novel combination and arrangement of parts, which will be hereinafter described and particularly pointed out in the claim.

The preferred embodiment of the invention has been illustrated in the accompanying drawing, although no restriction is necessarily made to the precise details of construction therein shown, as changes, alterations, and modifications, within the scope of the claim may be resorted to when desired.

In the drawing:

Figure 1 is a view in side elevation of a holder constructed in accordance with the invention and showing the same applied to a support, with the elevating shaft shown in lowered position.

Fig. 2 is a front elevation of the holder.

Fig. 3 is a vertical longitudinal section through the holder, the elevating shaft being shown in raised position.

Fig. 4 is a detail transverse sectional view on the line 4—4 of Fig. 1.

Fig. 5 is a detail sectional view through one end of the holder and showing a modified form of latch for locking the elevating shaft against movement.

Like characters of reference denote corresponding parts throughout the several views in the drawing.

Referring now to the drawing in detail, the letter A designates a support which in this instance has been shown as a post and with which the improved holder B is shown connected by means of a bearing sleeve 4 and a guide plate 5 forming part of the holder and connected with the post A in spaced relation by suitable fastening elements 6.

The guide plate 5 which is arranged above the bearing sleeve 4 is offset between its ends for the greater portion of its length to space the same from the post A and to form thereon at the opposite ends of the plate stop shoulders 7. The plate 5 has formed in the offset portion thereof a longitudinally extending slot 8.

The shaft 9 passes through the bearing sleeve 4 and is mounted to slide therein, said shaft having formed therein a longitudinally extending row of spaced and transversely extending openings 10 and is provided adjacent its upper end with a laterally extending and curved harness carrying arm 11, and at its lower end with a pivoted handle 12 by means of which the shaft may be slid longitudinally of the post A within the bearing sleeve 4 if found desirable.

A head 13 has a stem 14 extending within the upper end of the shaft 8 and secured therein by an extension on the harness

carrying arm. The other end of said head is forked to form ears 15 between which is mounted to turn a pulley 16, said head 13 is connected with the guide plate 5 by means of a slide block 17 arranged between the offset portion of the guide plate 5 and the post A, and having a stem 18 passing through the head 13 and retained therein by a securing member 19.

A block 20 in which is mounted a pulley 21 is secured to the post A above the guide plate 5 and has connected therewith one end of a flexible element 22 which is trained over the pulley 16 and passed over the pulley 21 in the block 20 so that the free end of the flexible element will extend within convenient reach of the person standing at the base of the support and by means of which the shaft 9 may be moved longitudinally of the bearing sleeve 4 and the guide plate 5.

To permit the shaft 9 to be locked against movement and also to enable the same to be held in adjusted position within the bearing sleeve 4, the sleeve 4 is provided with a spring operated latch 23 one end of which extends through an opening 24 in the bearing sleeve to engage with the wall of an opening 10 in the shaft which is in registration therewith.

In Fig. 5 in the drawing in which has been shown the modified form of latch for locking the elevating shaft 9 in raised position, the shaft 9 has formed therein adjacent its lower end an elongated slot 26 through which projects the locking nose of a spring pressed latch 27 pivotally mounted within the shaft 7, said nose being engageable with the lower wall of an elongated slot 28 in the bearing sleeve 4 when the elevating shaft is in its uppermost position to limit further movement of the shaft in a downward direction.

When it is desired to use the holder to support a set of harness in elevated position, the harness is looped over the harness carrying arm 11 after which the latch 23 is operated to release the same from the shaft 9 at which time a pull on the free end of the flexible element 22 will raise the shaft 9 to the desired position in which it may be held through the engagement of the latch 23 with the shaft.

When it is desired to again use the harness, the latch 23 may be disengaged from the shaft 9 at which time the weight of the shaft and harness will cause the shaft to slide downwardly through the bearing sleeve 4 until the slide block 17 contacts with the lower shoulder 7 on the guide plate 5 and arrests further movement of the shaft in a downward direction.

It will, of course, be understood that the shoulder 7 at the upper end of the guide plate 5 limits the upward movement of the shaft 9 in the bearing sleeve 4.

From the foregoing description, taken in connection with the accompanying drawing, it is at once apparent that a harness holder has been provided which when connected with a support enables the harness to be supported in an elevated position and though inexpensive of manufacture, is strong and durable in use.

Having thus described the invention, what is claimed as new, is:

In a device of the class described, a support, a plate thereon having an offset portion between its ends provided with a longitudinally extending slot, a block between said support and offset portion in the plate having a stem extending beyond the offset portion in the plate through said slot, a forked head detachably connected with said stem, a stem on said head, a slidably mounted shaft into which the stem on the head extends, a harness carrying arm, and an extension on one end of said arm passed through said shaft and the stem on said head.

In testimony whereof I affix my signature.

THOMAS SUCHLA.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."