J. F. & A. L. BLADHOLM.

HARNESS HANGER.

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1,239,666. Patented Sept. 11, 1917.

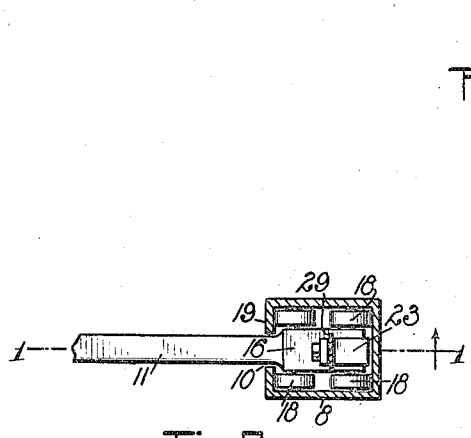


Fig. 2.

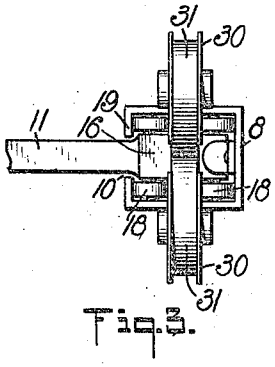


Fig. 3.

Fig. 1.

WITNESSES

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HARNESS-HANGER.

1,239,666. Specification of Letters Patent. Patented Sept. 11, 1917.

Application filed October 9, 1916. Serial No. 124,587.

To all whom it may concern:

Be it known that we, JOHN F. BLADHOLM and AXEL L. BLADHOLM, both citizens of the United States, and residents of Marshall, in the county of Lyon and State of Minnesota, have invented a new and Improved Harness-Hanger, of which the following is a full, clear, and exact description.

Among the principal objects which the present invention has in view are: to elevate a harness or similar article beyond where it may be interfered with by the customary traffic; to dispose an apparatus of the character mentioned in position to receive the article which it is to support and to hold the same in receiving position while receiving said article; and to reduce friction or drag on the supporting member.

Drawings.

Figure 1 is a vertical section of a hanger of the character mentioned constructed and arranged in accordance with the present invention, the section being taken as on the line 1—1 in Fig. 2;

Fig. 2 is a cross section taken as on the line 2—2 in Fig. 1;

Fig. 3 is a top plan view, the view being taken as on the line 3—3 in Fig. 1.

Description.

As seen in the drawings, a guide chute 8 is secured to a standing structure in a preferably vertical position by means of screws 9 or other suitable fastening devices. The chute 8 is rectangular in cross section and has in the exposed side thereof, a slot 10, through which is extended a bracket arm 11. Adjacent its lower end the chute is provided with a series of perforations 12 into which falls the crooked end of a hook 13.

At the upper end of the chute a bracket 14 is rigidly secured whereon a rubber buffer 15 is rigidly mounted. The buffer 15 is intended to arrest the carriage 16 when the same is elevated by the spring-actuated drum 17. The carriage 16 is provided with rollers 18. The rollers 18 are disposed to form four pairs, two pairs of rollers bearing against the inner surfaces of the front flanges 19 of the chute 8. The other pairs of rollers bear upon the back of the chute as shown best in Fig. 2 of the drawings. The carriage 16 is preferably integral with the bracket arm 11, which forms a saddle to carry the harness. The bracket arm 11 is reinforced by a brace 20 extended from the lower end of the carriage 16.

At the junction of the bracket arm 11 and the brace 20, is secured a pull cord 21, the handle 22 whereof hangs within reach when the bumper 23 of the carriage 16 engages the buffer 15 of the bracket 14.

When the carriage 16 is drawn down by pulling on the cord 21, the hook 13 falls into one or other of the perforations 12. The lower wall 24 of each perforation is outwardly declined to deflect the hook 13 if pressed downward thereon. In this manner the hook 13 may be drawn past several of the perforations before being permitted to engage the perforation desired.

The hook 13 has a pivot shaft 25 extending between lugs 26 projecting from the lower end of the carriage 16. The hook 13 is rocked into the perforations 12 by the overbalancing weight of the handle 27.

When in operation a spring 28 with which the drum 17 is provided normally elevates the carriage 16, bracket arm 11, and articles supported thereon until arrested by the bracket 14 and the buffer 15. The height at which the bracket arm 11 is then disposed is sufficient to prevent the parts of a horse harness for which the hanger is particularly designed, from trailing on the ground or being interfered with by the animals in adjacent stalls.

When it is desired to remove the harness from the bracket or to place the harness thereon, the operator engages the handle 22 and draws, by means of the cord 21, the bracket arm 11 and carriage 16 down until the hook 13 engages the upper edge of one of the perforations 12. The hook 13 thereafter restrains the carriage 16 and holds the bracket arm in position.

The harness having been removed or replaced on the bracket arm 11, the operator engages the handle 27 and by lifting the same withdraws the hook 13 from engagement with the wall of the perforation 12 and permits the spring 28 to wind the cable 29 on the drum 17 to draw the carriage 16 upward until the bumper 23 strikes the buffer 15.

In the modified form shown in Fig. 3, two drums 30 are employed to wind thereon two ribbons 31, each of which is connected with the carriage 16. In this man-

ner, additional lifting power may be employed for lifting double sets of harness.

Claims.

1. A harness hanger comprising a guide chute; a wheel-supported carriage movably disposed therein; a bracket arm extending from said carriage beyond said chute adapted for supporting a harness; means for elevating said carriage, said means embodying a spring-winding drum and a flexible connection between said drum and said carriage; and means for holding said carriage in lowered receiving position for said bracket arm, said means embodying a series of perforations in said chute and a latch for engaging the same mounted on said carriage.

2. A harness hanger comprising a guide chute; a wheel-supported carriage movably disposed therein; a bracket arm extending from said carriage beyond said chute adapted for supporting a harness; means for elevating said carriage, said means embodying a spring-winding drum and a flexible connection between said drum and said carriage; and means for holding said carriage in lowered receiving position for said bracket arm, said means embodying a series of perforations in said chute and a latch for engaging the same mounted on said carriage, said latch embodying a crook end and an exposed handle extending beyond said chute, the weight of said handle overbalancing said crook end for causing the same to enter said perforations when disposed opposite the same.

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