

(No Model.)

A. FOISY.
REIN HOLDER.

No. 491,542.

Patented Feb. 14, 1893.

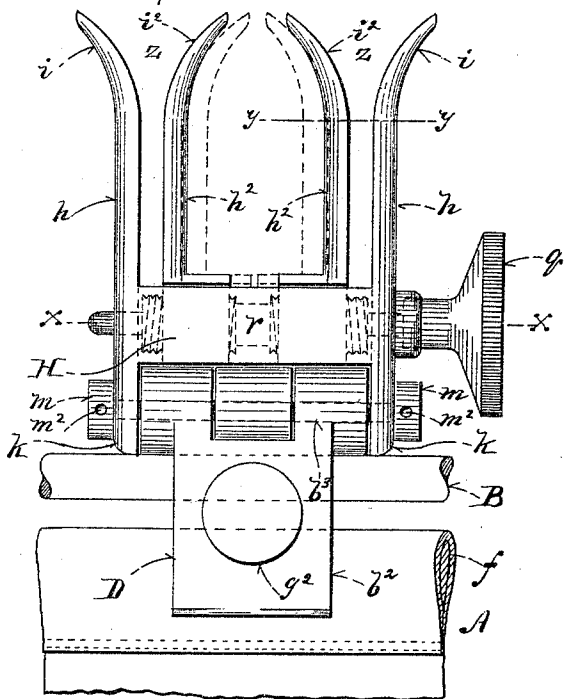


Fig. 1.

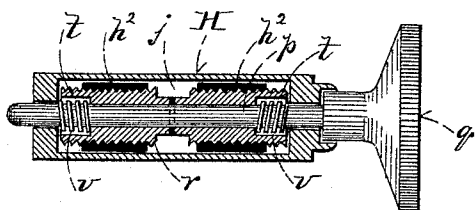
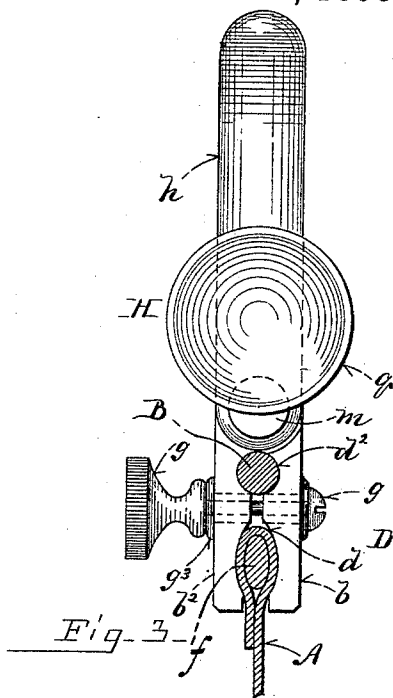


Fig. 2.

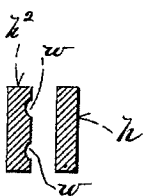
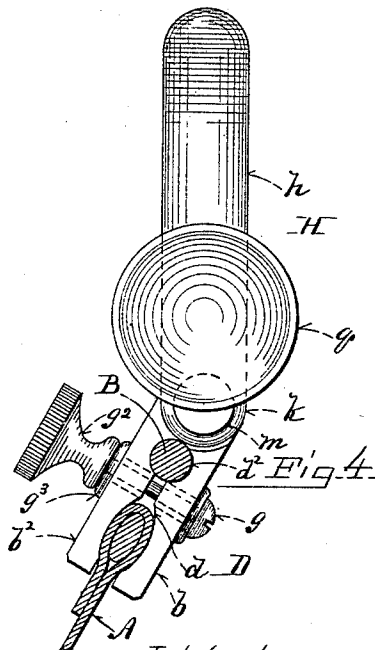


Fig. 5.

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ARSÈNE FOISY, OF WEST GARDNER, MASSACHUSETTS.

REIN-HOLDER.

SPECIFICATION forming part of Letters Patent No. 491,542, dated February 14, 1893.

Application filed October 10, 1892. Serial No. 448,369. (No model.)

To all whom it may concern:

Be it known that I, ARSÈNE FOISY, of West Gardner, in the county of Worcester, State of Massachusetts, have invented certain new and useful Improvements in Rein-Holders for Vehicles, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevation of my improved rein-holder; Fig. 2 a horizontal section taken on line, *x, x*, in Fig. 1; Fig. 3 an edge elevation looking from the right in Fig. 1; Fig. 4 a like view showing the position assumed by the parts when used on a curved dasher; and Fig. 5 a section on line, *z, z*, in Fig. 1.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to a device for holding harness-reins on the dasher of a carriage when not in use; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation:

In the drawings, A represents the dasher which is of the ordinary leather-covered class and is provided with the finish-rail, B, said dasher being represented as broken off, it not being essential to the present invention to more fully illustrate it.

A clamp, D, for attaching the device to the dasher comprises two members, *b, b*², constructed somewhat in the form of the leaves of a hinge and pivoted on a pin, *b*³, shown by dotted lines in Fig. 1. These members are provided on their inner faces with transverse grooves, *d, d*², to receive the finish-rod, *f*, and the rail, B, respectively. A clamping-screw, *g*, passes through said members and is set up by a nut, *g*², turned onto one end thereof. Washers, *g*³, may be interposed between the

nut and adjacent members to adjust the clamp for different thicknesses of dashers.

The body, H, of the rein-holder comprises a frame from each end of which an arm, *h*, projects vertically, the upper end of said arm being curved or turned outward at, *i*. Said body is chambered at, *j*, (see Fig. 2) and in alignment with the arms, *h*, is provided with lips, *k*, by which it is pivoted on the pin, *b*³. Nuts, *m*, are turned onto the ends of said pin and are provided with tool-openings, *m*², whereby they may be set up to increase the tension on the pivot.

A horizontal spindle, *p*, is journaled in the body, H, and runs longitudinally of the chamber, *j*. Said spindle is provided with a rosette, *q*, on one end. On said spindle within the chamber a right and left hand worm, *r*, (see Fig. 2) is fast. Said worm has its outer ends chambered at, *t*, and a coiled spring, *v*, is interposed around the spindle within said chamber. Said springs tension the longitudinal movements of the spindle.

Two arms or fingers, *h*², are tapped and threaded in their lower ends to travel on the worm, *r*. These arms project vertically in parallelism with the arms, *h*, and have their upper ends bent or curved in the opposite direction as shown at, *v*², each set of arms, *h, h*², as thus arranged forming a mouth, *z*, at their upper ends to receive the reins. The inner faces of the arms, *h*², are grooved or corrugated vertically at, *w*, as shown in Fig. 5, to form a bite against the rein.

In the use of my improvement the holder is adjusted on the dasher by turning out the nut, *g*², and opening the pivot-clamp members, *b, b*², to receive the rod, *f*, and rail, B, against which they are clamped by turning on said nut again. The body of the rein-holder is then swung into vertical position on the dasher when curved as in the form shown in Fig. 4, and the nuts, *m*, are set-up holding it firmly in this position. The spindle, *p*, is rotated by means of its rosette, *q*, causing the inner arms or fingers, *h*², to travel on the worm, *r*, outward or inward as desired, until the space between each of said arms and its companion fixed-arm is adjusted to tightly receive the rein which may be passed downward therebetween. When thus adjusted the

tension of the springs, *v*, will permit the rein to be forced into the holder, the fingers not requiring readjustment. By a slight turn of the rosette, if it is desired to leave the reins in the holder for any length of time, the fingers can be clamped against the same so tightly that it is practically impossible for them to become accidentally displaced from the holder.

10 Having thus explained my invention, what I claim is—

1. A rein-holder comprising a body attachable to a carriage-dasher; a rigid holder-finger on said body; having its journal spring-tensioned against longitudinal movement; a worm rotatable in said body and a companion finger fitted to travel on said worm.

2. In a rein-holder a clamp for attaching it to a carriage dasher; a body pivoted to swing vertically on said clamp; tension mechanism for said body; a right and left hand worm fitted to rotate in said body and having a spring-tension longitudinal movement to its journal; rigid clamping-fingers on said body

and companion clamping-fingers mounted to travel in opposite directions on said clamp, substantially as described. 25

3. In a rein-holder a clamp in combination with the body, *H*, pivoted thereon and provided with rigid fingers, *h*,; a right and left spring-tensioned worm journaled in said body and the fingers, *h*², mounted to travel in opposite directions on said worm, substantially as described. 30

4. In a rein-holder the clamp in combination with the body pivoted thereon; the horizontally sliding rotary spindle, *p*, in said body; the right and left worm, *r*, on said spindle; the springs, *v*, tensioning the longitudinal movement thereof; the rigid vertical fingers, *i*, on said body; and the companion fingers, *h*², fitted to travel on said worm all being arranged to operate substantially as described. 35 40

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Witnesses:

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RALPH W. BLACK.