ALFRED B. JOHNSON AND VAN NESS GREEN.

HOG HOLDER.

APPLICATION FILED OCT. 8, 1919.

1,343,213.

Patented June 15, 1920.

FIG. 1.

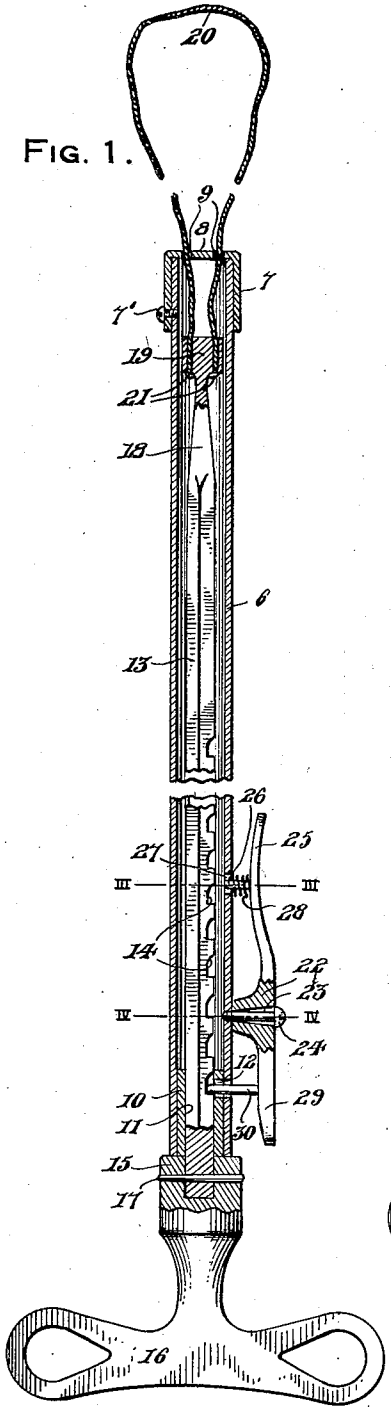


FIG. 2.

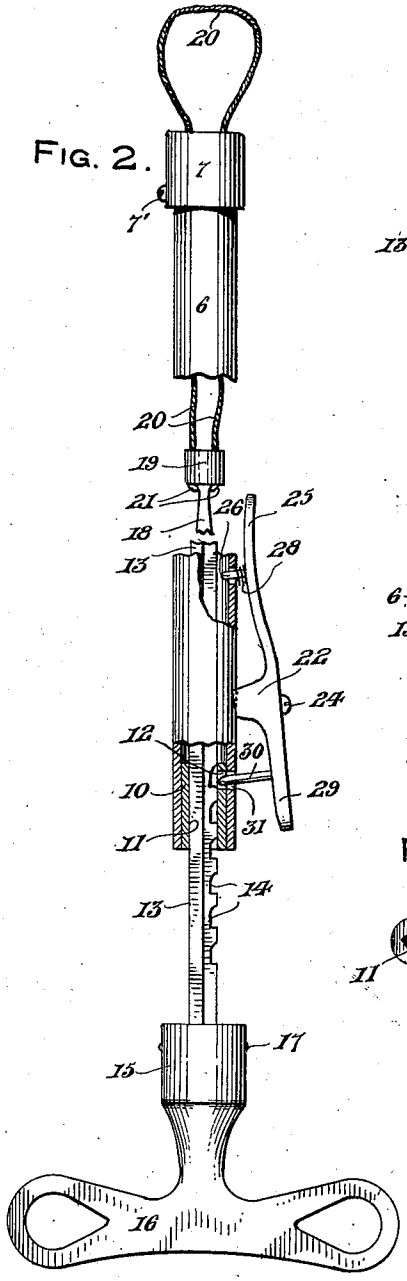


FIG. 3.

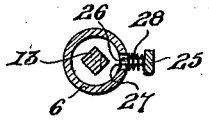


FIG. 4.

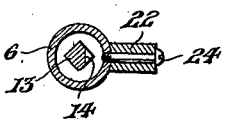
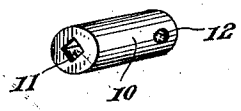


FIG. 5.



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UNITED STATES PATENT OFFICE.

ALFRED B. JOHNSON, OF BLOOMING GROVE, AND VAN NESS GREEN, OF EDGERTON, WISCONSIN.

HOG-HOLDER.

1,343,213. Specification of Letters Patent. Patented June 15, 1920.

Application filed October 8, 1919. Serial No. 329,337.

To all whom it may concern:

Be it known that we, (1) ALFRED B. JOHNSON and (2) VAN NESS GREEN, citizens of the United States of America, residing at (1) Blooming Grove and (2) Edgerton, in the counties of (1) Dane and (2) Rock and State of Wisconsin, have invented certain new and useful Improvements in Hog-Holders, of which the following is a specification.

The primary object of the present invention resides in the provision of a hog holder wherein there is provided a looped snare having both ends thereof connected to a movable operating rod whereby the snare will be closed in half the time required should one end thereof be attached to a fixed support as previously customary.

A further object of the invention is to provide a hog holder of novel construction embodying a looped snare and a ratchet rod for closing the same with improved ratchet devices associated with said rod and bearing therefor.

With the above general objects in view and others that will appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts to be hereinafter more fully described, and then claimed, reference being had to the accompanying drawing by like characters designating corresponding parts throughout the several views, and wherein—

Figure 1 is a longitudinal sectional view of a hog holder constructed in accordance with the present invention, the two ends of the looped snare being illustrated as fixed to one end of the operating ratchet rod,

Fig. 2 is a side elevational view partly broken away in section with the operating ratchet rod partially withdrawn from the casing to shorten the snare, the ratchet lever being moved to position to permit the operating rod to be withdrawn,

Fig. 3 is a cross sectional view taken on line III—III of Fig. 1 showing the tension spring for the ratchet lever,

Fig. 4 is a cross sectional view taken on line IV—IV of Fig. 1 showing the mounting screw for the ratchet lever, and

Fig. 5 is a detail perspective view of the end plug for the tubular casing and bearing for the ratchet rod.

Referring more in detail to the accompanying drawing, there is illustrated a cylindrical metal casing 6 normally open at each end, for the reception of the operating mechanism of the hog holder, the outer end thereof being closed by a cap 7 slidable thereon and retained in position by the radial screw 7′, the outer wall 8 of the cap 7, having a pair of spaced openings 9 therein for purposes presently to appear. The inner end of the tubular casing 6 is closed by a cylindrical plug 10 shown more clearly in Fig. 5 as having a rectangular bore 11 extending throughout the length thereof while one wall of the plug 10 adjacent the inner end thereof is provided with a transverse opening 12 communicating with the bore 11 as clearly shown in Figs. 1 and 2, the plug 10 being insertible within the inner end of the casing with the opening 12 inwardly positioned.

A ratchet rod 13, rectangular in cross section is slidably received within the rectangular bore 11 of the plug 10 with the ratchet teeth 14 thereof alined with the transverse opening 12 of said plug, the entering movement of the ratchet rod in the casing being limited by the inner end 15 of the handle 16, the inner end 15 of the handle having a rectangular socket therein for the reception of the adjacent end of the rectangular rod 13 to be retained therein by the transverse pin 17. The outer end of the rod 13 is tapered as at 18 and at its extreme outer end is provided with an enlarged head 19 in which head the ends of a flexible snare 20 are permanently secured as at 21, the strands of the snare 20 passing through openings 9 in the end wall 8 of the cap 7 for permanent engagement with the head 10 of the operating rod 13.

A ratchet device is carried by the casing 6 and is associated with the ratchet teeth 14 of the rod 13 and includes a lever 22 having an outwardly tapered opening 23 therein for the reception of a screw 24 entering the adjacent side of the casing 6, the outer end 25 of the lever 22 carrying a pin 26 entering an opening 27 formed in the casing 6 and being surrounded by a coil spring 28 normally forcing the lever end 25 outwardly while the opposite end 29 of said lever 22 is normally forced inwardly with the ratchet pin 30 thereof at all times projected through the opening 31 in the casing 6 and into the opening 12 of the plug 10, the plug 10 being retained in the casing 6 by the pin 30 pro-

jecting into the opening 12, the pin 30 in its normal position projecting inwardly of the opening 12 and into the bore 11 of said plug for association with the ratchet teeth 14 of the operating rod 13 as illustrated in Fig. 1. With the tapered opening 23 in the lever 22 the lever is permitted to have a slight pivotal movement upon the screw 24 for purposes of permitting the pin 30 automatically to ratchet over the teeth 14, and to be manually withdrawn from engagement with the teeth by pressure upon the end 25 of said lever during which movement the spring 28 is compressed and the pin 30 is withdrawn from the path of movement of the operating rod 13 and into the opening 12.

In assembling the different parts of the device, the snare 20 has its ends passed through the openings 8 in the cap 6 and permanently secured as at 21 to the head 19 of the rod 13. The rod 13 has its inner end passed into the outer end of the tube 6 whereby the cap 7 may be placed upon the end thereof and retained in position by the radial screw 7'. The end plug 10 is then received on the rectangular inner end of the operating rod 13 with the opening 12 thereof alined with the ratchet teeth 14, the plug being inserted in the casing with the opening 12 therein in registration with the opening 31 in the casing, at which time the handle 16 is secured to the inner end of the rod. The lever 22 is then mounted upon the casing 6 by the screw 23 with the tensioned pin 26 extending into the casing opening 27 while the ratchet pin 30 projects through the alined openings 12 and 31 for automatic engagement with the ratchet teeth 14 and further to constitute a lock for the plug 10.

From the above detail description of the device it is thought that the construction and operation will at once be apparent, it being noted that the snare 20 is decreased in size by pulling inwardly upon the rod 13 during which movement both ends 21 of the snare 20 move inwardly so that only half the distance of pulling of the rod 13 is required to close the snare about an object. When the rod 13 is pulled inwardly the ratchet pin 30 automatically moves over the ratchet teeth 14 and coöperates therewith to prevent accidental enlargement of the snare while the snare may be readily released from an object by pressing upon the end 25 of the lever to permit the rod 13 to move into the casing 6 with a subsequent enlargement of the snare loop.

While there is herein shown and described the preferred embodiment of the invention, it is to be understood that minor changes may be made therein as will fall within the scope of the invention as claimed.

What is claimed as new is:—

1. A hog holder comprising a casing, an operating rod slidable in said casing, a looped snare projecting from one end of said casing and having both ends thereof attached to said operating rod, a plug within the inner end of said casing through which said rod is adapted to slide, ratchet teeth upon said rod, said casing and plug having alined openings registering with said ratchet teeth, a lever pivoted upon said casing, and a pin carried by said lever extending through said casing and plug openings for engagement with said ratchet teeth to hold the rod in projected position and for retaining the plug within the casing.

2. A hog holder comprising a casing, an operating rod rectangular in cross section slidable in said casing, a looped snare projecting from one end of said casing and having both ends thereof attached to said operating rod, a plug within the inner end of said casing having a rectangular bore through which said rod is adapted to slide, ratchet teeth upon said rod, said casing and plug having alined openings registering with said ratchet teeth, a lever pivoted upon said casing, and a pin carried by said lever extending through said casing and plug openings for engagement with said ratchet teeth and for maintaining the ratchet teeth of the rod in alinement therewith, said pin being movable out of engagement with the ratchet teeth and retained in the alined casing and plug openings to retain the plug in position in the casing.

In testimony whereof we affix our signatures.

ALFRED B. JOHNSON.
VAN NESS GREEN.