

No. 666,287.

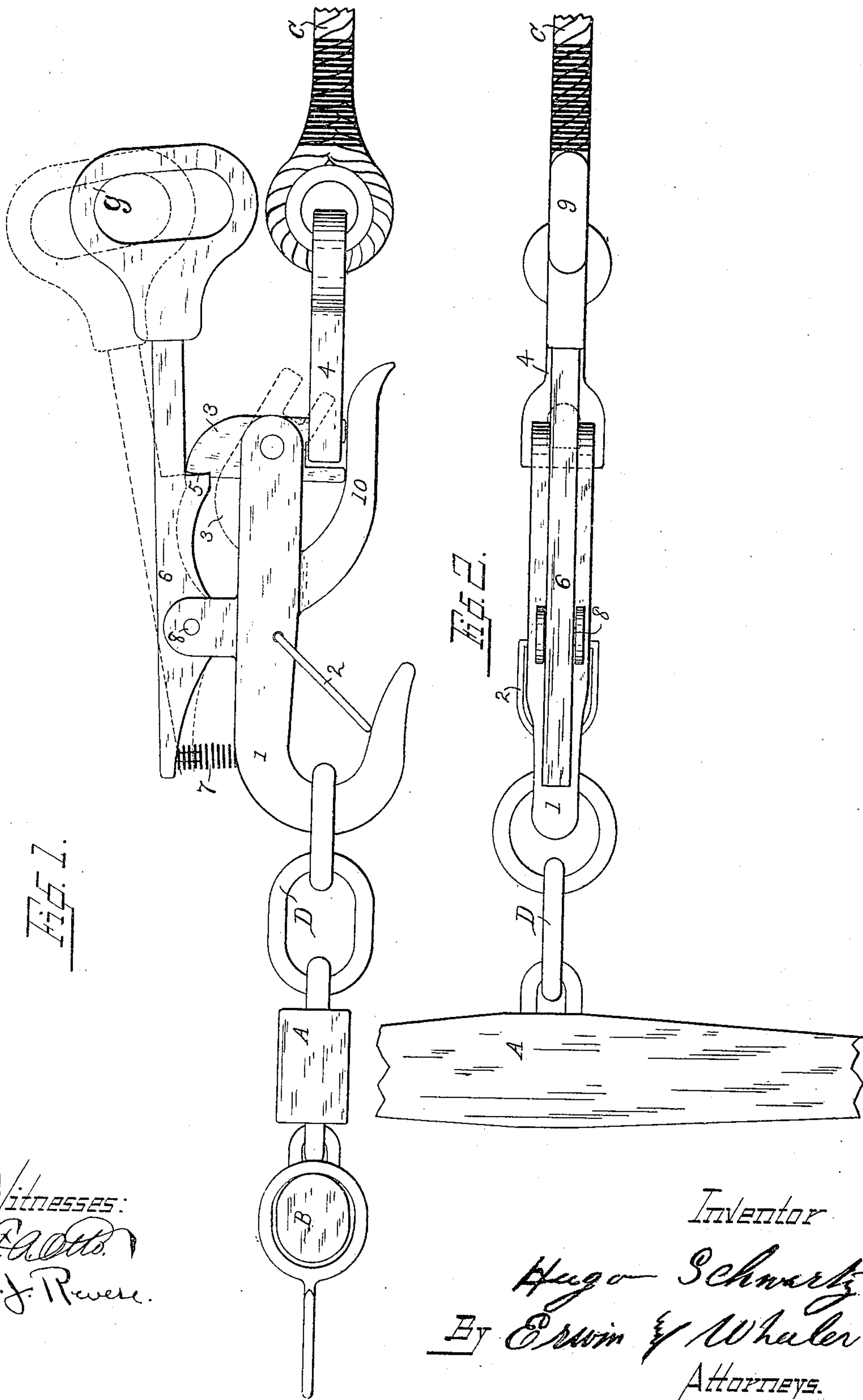
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H. SCHWARTZ.

HORSE DETACHER FOR HAY ELEVATORS.

(Application filed Sept. 4, 1900.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

HUGO SCHWARTZ, OF WORDEN, KANSAS.

## HORSE-DETACHER FOR HAY-ELEVATORS.

SPECIFICATION forming part of Letters Patent No. 666,287, dated January 22, 1901.

Application filed September 4, 1900. Serial No. 28,877. (No model.)

*To all whom it may concern:*

Be it known that I, HUGO SCHWARTZ, a citizen of the United States, and a resident of Worden, county of Douglas, and State of Kansas, have invented new and useful Improvements in Horse-Detachers for Hay-Elevators, of which the following is a specification.

My invention relates to improvements in horse-detachers for hay-elevators.

It is desirable that the fork used for elevating the hay be returned to the wagon as soon as possible after the hay has been released; but as the elevator-rope must be slackened or freed from tension before the fork can be withdrawn it has heretofore been necessary to await the return of the horses used for lifting the hay before withdrawing the fork, thus causing considerable delay.

The object of my invention, however, is to enable the driver to release the elevator-rope immediately after the discharge of the hay from the fork, whereby the latter may be returned immediately to the wagon and readjusted in the hay while the horses are being returned to their original position.

My device is also adapted to permit the reengagement of the rope with the eveners or other draft attachments without loss of time.

My invention also has for its object the provision of means for holding the eveners and whiffletrees away from the heels of the horses during their return.

In the following description reference is had to the accompanying drawings, in which—

Figure 1 is a side view of my invention as used for connecting the hay-elevator rope with the eveners, with dotted lines indicating the position of rope-release. Fig. 2 is a top view of the same.

Like parts are identified by the same reference characters in both views.

In the drawings, A represents the eveners, B the whiffletrees, and C the end of the hay-elevator rope to which the eveners A is to be attached. The eveners-bar is preferably provided with the usual clevis or clevis and link attachment D, in which a hooked bar or shank 1 of my releasing-trip is adapted to engage.

2 is a gravity lock or pivotal ring adapted

to prevent the accidental disengagement of the hook.

The rear end of the shank 1 is provided with a pivoted latch 3, one end of which is forked and adapted to engage a stirrup 4, which is permanently secured to the rope end C. The other end of the latch 3 is adapted to engage a catch 5 on the trip-lever 6, the latter being normally held in the locking position by means of the spring 7, interposed between the end of the lever and the shank 1. The lever is fulcrumed to the shank at 8 and its upper end is provided with a handle 9.

To prevent the accidental disengagement of the stirrup 4 from the fork of the latch 3, I have provided the shank 1 with an arm 10, which covers the latch-fork when the latter is in locking position.

In use the latch 3 is swung to the position shown by dotted lines in Fig. 1 and the stirrup 4 is inserted in the forked end thereof. The latch is then swung to the locking position, as shown in Fig. 1, with the arm 10 closing the end of the fork, the other end of the latch being automatically engaged by the catch 5 on lever 6. When the hay has been lifted to the desired position and discharged, the driver lifts the lever 6 by means of the handle 9, thus releasing latch 3 from catch 5 and permitting it to swing to the releasing position, as shown by dotted lines in Fig. 1, when the stirrup 4 disengages from the latch-fork and permits the retraction of the rope. The driver then lifts the eveners and whiffletrees by means of the handle 9 and returns to his original position when the stirrup 4 is reengaged in the fork of the latch 3, as above explained.

While I have described the bar or shank 1 as being provided with a hook adapted to engage the clevis or links of the eveners-bar, it will be understood that the shank 1 and eveners-bar may, if desired, be permanently secured together by a swivel-joint or in any other convenient manner.

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

1. The combination with the draft appliances of a hay-elevator; of a hooked shank detachably connected therewith; a latch piv-



otally mounted on the shank in the rear of the hook; a catch adapted to hold the latch in locking position; a lever for releasing the catch; and a stirrup-shaped device connected  
 5 with the draft-rope of the elevator, and adapted to be engaged by said latch.

2. The combination with the draft appliances of a hay-elevator; of a shank connected therewith; a latch pivotally mounted on said  
 10 shank; means for holding the latch in locking position; a lever for releasing the same, pivoted to the shank between the latch-pivot and the draft appliances, with one end projecting toward the latch end of the shank,  
 15 and provided with a handle; a latch-engaging connection secured to the draft-rope of the elevator, and adapted to engage said latch when the latter is in locking position.

3. The combination with a hay-elevator, of  
 20 a shank, a latch pivotally mounted thereon, and forked at one end; a catch adapted to

hold said latch in locking position; a stirrup connected with the draft-rope of the elevator and adapted to engage in the forked end of said latch, and means for releasing the catch. 25

4. The combination with the draft appliances of a hay-elevator; of a shank; a latch pivotally mounted thereon and provided with a forked end; an arm projecting from said shank and adapted to cover the forked end  
 30 of the latch, when the latter is in locking position; a catch for holding the latch in locking position; a lever for releasing said catch; and a device connected with the draft-rope of the elevator and adapted to be releasably en- 35 gaged by the latch.

In testimony whereof I affix my signature in the presence of two witnesses.

HUGO SCHWARTZ.

Witnesses:

ABRAM SMITH,  
 F. B. MEYER.