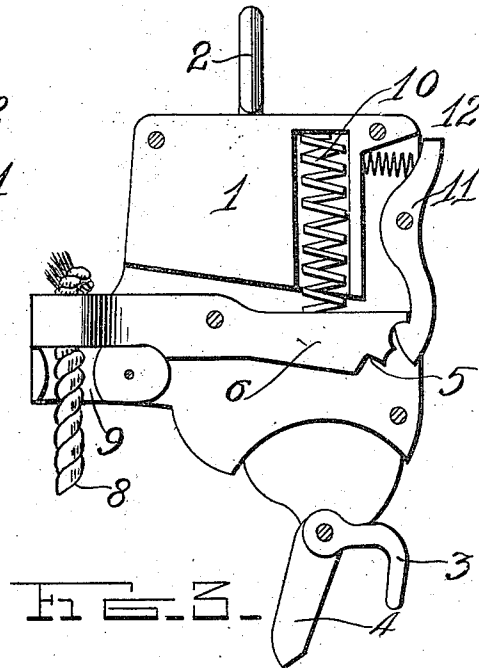
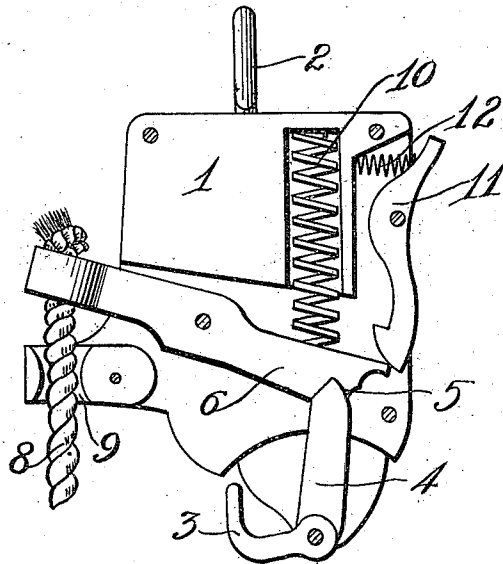
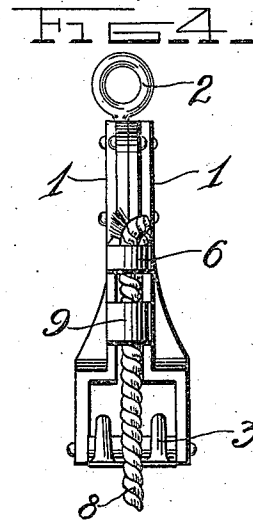
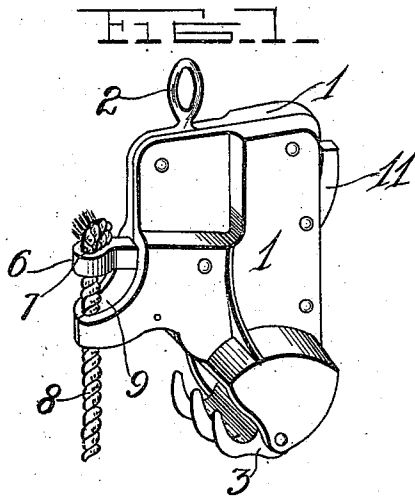


H. P. HANSON.
SLING LOCK.
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987,875.

Patented Mar. 28, 1911.



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UNITED STATES PATENT OFFICE.

HAAKEN P. HANSON, OF ALBERT LEA, MINNESOTA.

SLING-LOCK.

987,875.

Specification of Letters Patent.

Patented Mar. 28, 1911.

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To all whom it may concern:

Be it known that I, HAAKEN P. HANSON, a citizen of the United States, residing at Albert Lea, in the county of Freeborn and State of Minnesota, have invented certain new and useful Improvements in Sling-Locks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in sling locks or trips for hay slings and the like.

One object of the invention is to provide a lock or trip of this character having an improved construction and arrangement of trip hook adapted to swing or revolve freely when released by the trip lever thereby preventing the hook from becoming broken or battered out of shape as frequently occurs in sling locks wherein the hook strikes or swings into engagement with other parts of the lock.

Another object is to provide an improved catch for holding the trip lever up in an inoperative position when released from the hook and means to restore the lever to an operative position when released from the catch.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings: Figure 1 is a perspective view of my improved sling lock; Fig. 2 is a side view with one of the side plates of the casing removed and having the parts in an operative position; Fig. 3 is a similar view showing the parts in an inoperative position; Fig. 4 is a front edge view of the lock.

In the embodiment of the invention I provide a casing which is preferably in the form of two substantially rectangular plates 1 pressed or formed to provide, when brought together suitable recesses for the accommodation of the working parts of the lock. The plates are riveted or otherwise secured together to form the casing and on the upper edge of the latter is arranged an eye 2 whereby the lock may be attached to a sling or compression pulley or other device.

Pivotally mounted in the lower portion of the casing is a trip hook 3 which is here shown as of triple form but which may be of any suitable construction. The hook is provided on its inner end with a locking lug 4 which when the hook is in an operative position is adapted to engage a locking notch 5 formed in a trip lever 6, which is pivotally mounted in the casing and projects a suitable distance beyond the front edge of the same as shown.

In the outer end of the lever 6 is formed an eye 7 with which is connected the end of the trip rope 8, said rope passing through a guide loop 9 formed on the front edge of the casing. With the inner end of the casing is engaged the lower end of a coiled lever projecting spring 10 which is arranged in a suitable socket formed in the casing. The pressure of the spring is exerted to project and hold the lever 6 in operative engagement with the lug 4 of the hook whereby the latter is locked in position to support the sling.

Pivotally mounted in the rear edge of the casing is a lever catch 11 the lower end of which is adapted to engage the inner end of the lever 6 whereby when the same is tripped by the trip rope 8 and thus disengaged from the lug 4 of the hook said lever will be held in a retracted or tripped position thereby allowing the trip hook to revolve or swing freely on its pivot, without coming into contact with any part of the lock. The catch 11 is provided with a coiled spring 12 whereby the same is held in position to engage and hold the lever 6 up in a retracted position.

While the sling lock is herein shown and described as being provided with means for attaching the same to a sling or compression pulley it is obvious that the lock may be formed as a part of or in conjunction with the pulley casing.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined in the appended claims.

Having thus described my invention what I claim is:—

1. In a sling lock, the combination of a casing, a trip hook pivoted therein, means
5 mounted within the casing to hold said hook in an operative position and to release the same, and means within the casing to lock said holding and releasing means in its released position.
- 10 2. In a sling lock, the combination of a casing, a hook pivoted in the lower end thereof, a trip lever mounted in the casing to engage said hook and retain the same in operative position, means to trip the lever
15 and release the hook, and a catch adapted to engage and retain the lever in its tripped position.
3. In a sling lock, a casing, a trip hook revolvably mounted therein, a trip lever
20 adapted to hold said hook in an operative position, a trip rope connected to said lever, and a spring catch adapted to automatically engage and hold said lever in an inoperative position and out of the path of move-

ment of the hook when disengaged there- 25 from.

4. In a sling lock, a casing, a trip hook revolvably mounted therein and adapted when released, to swing free of any ob-
structions, a locking lug formed on said 30 hook, a trip lever pivoted in said casing, said lever having formed in its inner end a locking notch adapted to engage the lug on said hook whereby the latter is held in an operative position, an eye formed on the 35 outer end of said lever, a trip rope connected to said eye, a pivotally mounted catch adapted to automatically engage said lever when released from the hook and to hold the lever in an inoperative position, 40 and a spring to actuate said catch.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HAAKEN P. HANSON.

Witnesses:

C. L. SWENSON,
A. C. ERICKSON.

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