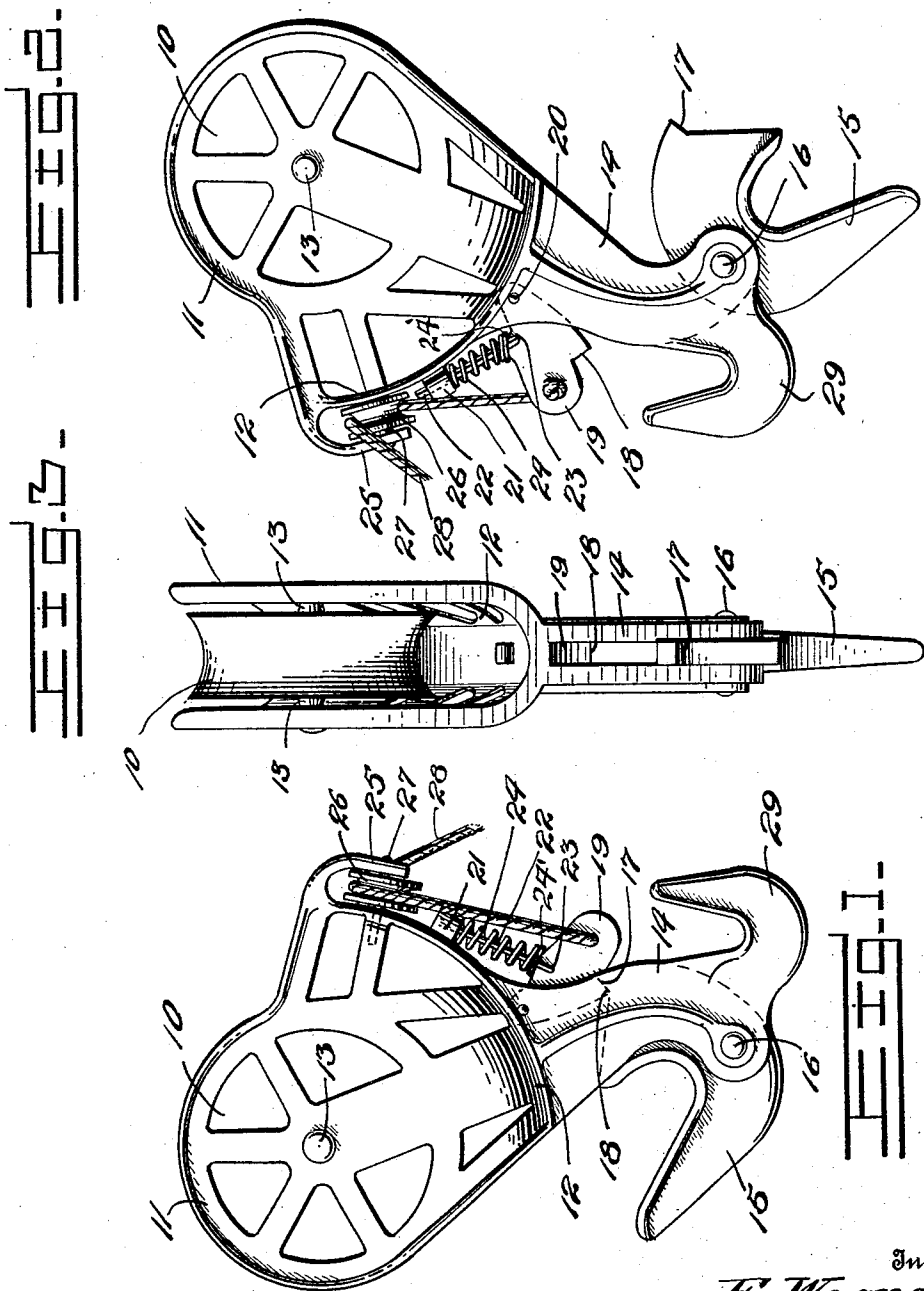


F. WAGNER.
SLING OR TRIP PULLEY.
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1,031,494.

Patented July 2, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

FREDERICK WAGNER, OF PORT HURON, MICHIGAN.

SLING OR TRIP PULLEY.

1,031,494.

Specification of Letters Patent.

Patented July 2, 1912.

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To all whom it may concern:

Be it known that I, FREDERICK WAGNER, a citizen of the United States, residing at Port Huron, in the county of St. Clair and State of Michigan, have invented certain new and useful Improvements in Sling or Trip Pulleys, of which the following is a specification.

This invention relates to a sling or trip pulley adapted for use and for simplifying the handling of loads usually handled by means of a rope and pulley.

The primary object of the invention is the provision of a novel form of releasing means and pulley construction whereby the pulley may be adapted for quickly and conveniently handling suitable materials to be raised and which can be dropped after being lowered to a certain extent, such as in the handling of hay, grain and the like.

With the above and other objects in view, the invention consists of certain other combinations and arrangements of parts as will be hereinafter more fully described and claimed, it being a still further object of the invention to provide a device which will not be likely to get out of working order.

In the drawings:—Figure 1 is a side elevation of my improved pulley, the reversible or pivoted hook member being shown in position for supporting a load. Fig. 2 is an opposite side elevation of the device with the reversible or pivoted hook disposed in a position after a load has been released therefrom. Fig. 3 is a front elevation of the device in the last named position.

Referring to the drawings in detail, there is shown my improved sling or trip pulley which comprises a sheave or pulley 10 which is rotatably mounted within a casing 11 having side portions spaced apart and formed with an arc-shaped plate 12 located concentric to the sheave or shaft 13 thereof, said arc-shaped plate being provided with a radiating hook stem 14 at one end formed of spaced plates and between the extremities of which a reversible hook member 15 is pivotally mounted as shown at 16. One end of the hook member 15 is adapted to coact with the adjacent edge portion of the hook stem for engagement of a load and the opposite extremity of the hook is provided with a notch 17 adapted to be engaged by a shoulder 18 formed adjacent the free end of a latch member 19 pivoted as shown at 20

to the stem and between the plates forming the same at its inner end, said latch being movable into and out of active relation to the hook member for retaining the latter in a supporting position or for releasing it. A perforated radiating lug 21 projects from the arc-shaped plate and has a rod 22 passed therethrough for sliding movement, one end of the rod being pivoted centrally to the latch 19 as shown at 23 and having a coiled spring 24 mounted thereon between a collar 24' and lug to hold the latch normally in an engaged or active position relative to the pivoted hook member. One end of the arc-shaped plate 12 is further provided with a guide comprising an integral bracket arm 25 in which a guide pulley 26 is rotatably mounted upon a shaft 27 and a releasing cord or cable 28 is passed through the guide and over the pulley and is connected to the free end of the latch whereby the latter may be disengaged or moved out of active relation with regard to the hook member against the action of the coiled spring by pull exerted on the cord or cable to effect the tripping of the hook for releasing a load therefrom. The hook stem 14 is further provided with an integral hook 29 which is rigid and adapted to be employed in lieu of the pivoted hook member when it is not desired to release a load and as shown, said rigid hook member extends from the opposite side of the stem.

I wish to have it understood that I may make such changes in the construction of the device as fairly fall within the scope of the appended claims and it is further understood that the device under the statutes is protected for all desirable uses to which it may be put without departing from the spirit of the invention.

I claim:—

1. A sling pulley comprising a sheave, a casing in which the sheave is mounted and including an arc-shaped plate concentric with the sheave, a hook stem radiating from the arc-shaped plate at one end thereof, a reversible hook member pivoted to the stem, a latch pivoted also to the stem and movable into and out of active relation to the hook member, a perforated lug radiating from the arc-shaped plate, a rod pivoted to the latch and passed through said lug, a spring upon the rod between the lug and latch, a guide at the opposite end of the arc-shaped

plate opposite the hook stem, and a releasing cord passed through the guide and connected to the latch.

2. A trip pulley comprising a casing having a pair of spaced plates depending therefrom, a sheave rotatably mounted in the casing for engagement by a supporting cable, an angular hook member pivoted between the lower ends of said plates at a balance point, an integral hook member formed with the plates to extend in an opposite direction relative to the pivoted hook member, the upper end of the pivoted hook member having an angular recess forming a shoulder, a latch pivoted between the plates and having a projecting portion adapted to engage the

shoulder to hold said pivoted hook in an operative position, means slidably engaged with the casing and pivotally connected to the latch member centrally of its length for holding it in engagement with the shoulder, a sheave rotatably supported outwardly of the casing above the latch and a cable connected to the free end of the latch and passing around the sheave for raising the latch and releasing the pivoted hook.

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

FREDERICK WAGNER.

Witnesses:

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