

No. 709,222.

Patented Sept. 16, 1902.

P. JABLONOWSKY.
HOISTING DEVICE.

(Application filed Feb. 15, 1902.)

(No Model.)

Fig 1.

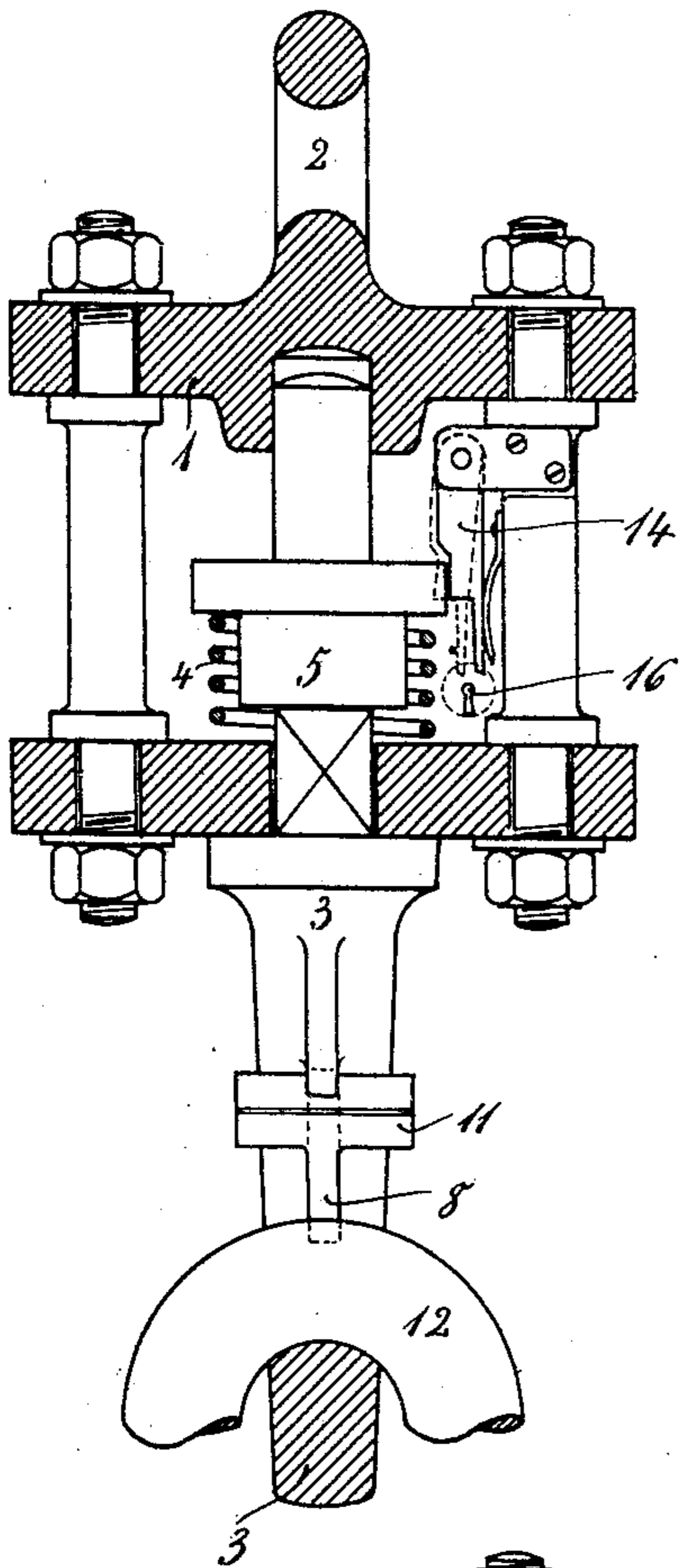


Fig 2.

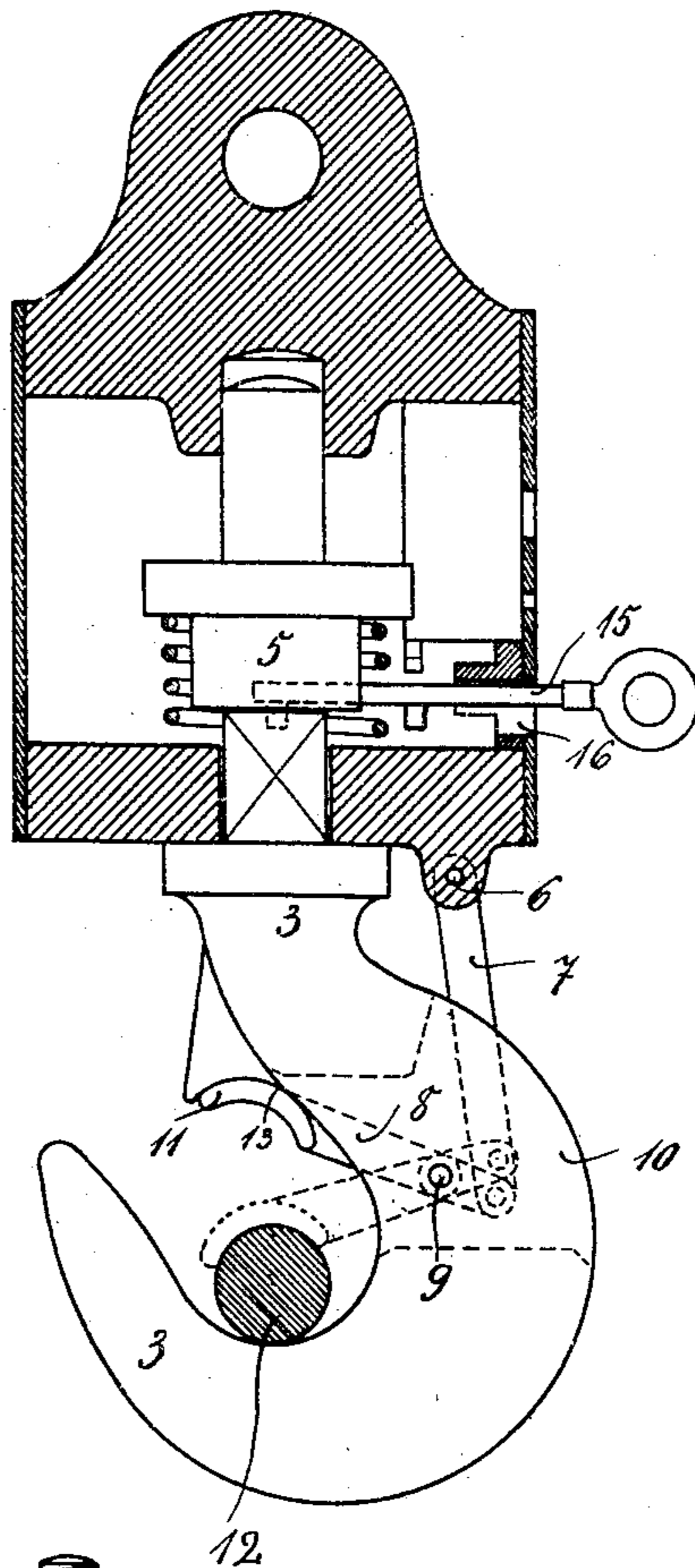


Fig 3.

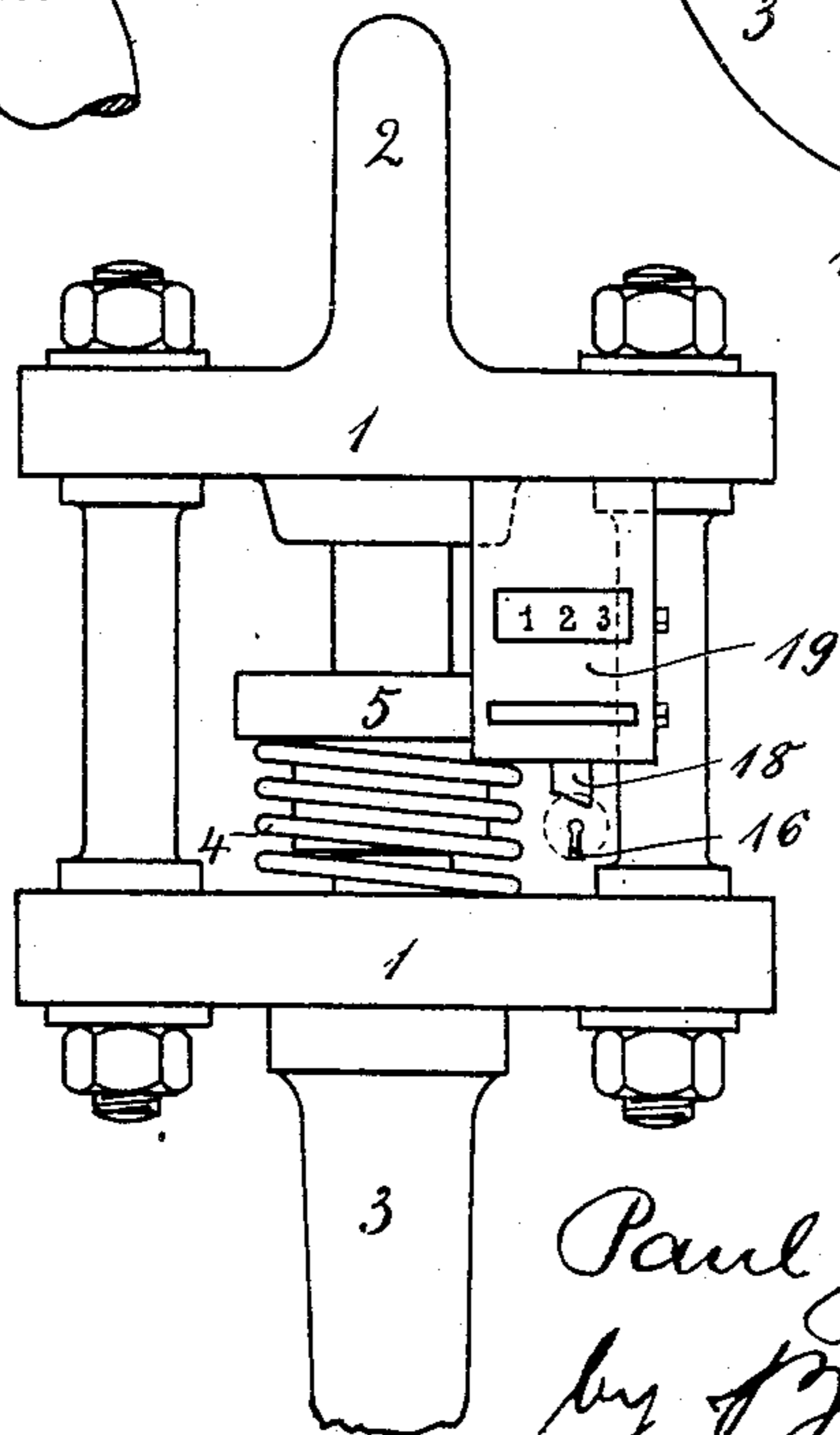
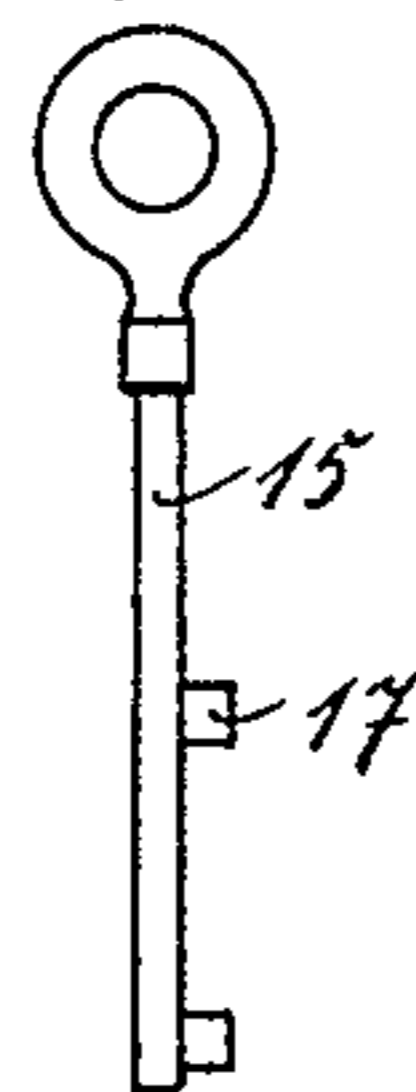


Fig 4.



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UNITED STATES PATENT OFFICE.

PAUL JABLONOWSKY, OF HAMBURG, GERMANY.

HOISTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 709,222, dated September 16, 1902.

Application filed February 15, 1902. Serial No. 94,292. (No model.)

To all whom it may concern:

Be it known that I, PAUL JABLONOWSKY, employee, a subject of the German Emperor, residing at Woltmannstrasse 53, Hamburg, in the German Empire, have invented new and useful Improvements Relating to Hoisting Devices, of which the following is a specification.

This invention relates to a self-registering load-carrying hook in which the rope secured in the hook upon being loaded is held fast until after depositing the load, when a locking device in connection with the retaining-catch is disengaged by a lever, so as to release the carrier-hook.

This invention has for its object to improve the construction of hoisting-hooks and to obviate various objections thereto; and in order that the invention may be readily understood I will describe the same fully with reference to the accompanying drawings, in which—

Figure 1 shows the unloaded hook in front view. Fig. 2 shows the same in a sectional side elevation, the position of the lever-locking device when lifting the load in dotted lines. Fig. 3 shows the registering device; Fig. 4, the key used in connection with the present device.

In contradistinction to other constructions in which the hoisting-hook opening is closed by a suitable member brought into operation by the supported load the present construction does not refer to a closing-hook. In this case a claw serves to secure the hoisting means, rope, or chain, and this claw also partakes in the return movement of the hook at the moment of discharge.

Referring to the drawings, in a yoke 1 with eye 2 is yieldingly mounted the hoisting-hook 3 upon a spring 4. The vertical motion of the hook 3 is limited by a stop 5, so that a load always causes it to make the same movement. Under the bow 1 is pivotally mounted at 6 a link 7, the said link being hinged by its outer end to a lever 8, which is pivoted at 9 to the hoisting-hook within a slot 10 there-through. The free end 11 of such lever is channeled, so as to engage over a rope or a chain link 12, placed in the hook 3. The locking of the latch thus formed is effected

by means of a collar on the upper end of the stop 5, which in descending pushes aside an elastic catch-lever 14, slipping over the same for a certain distance and finally engaging beneath a shoulder thereon. By introducing an ordinary key 15 into the keyhole 16 the catch-fastening can be readily disengaged, so as to free the rope or chain link 12, placed upon the hook 3, by causing the hook 3 to rise upward, opening the retaining-latch 13 through the action of the link. Each load is registered through the engagement of a second bit 17, fixed to the key 15, with the pawl of the ratchet-wheel of an ordinary counting mechanism 18, Fig. 3, which latter is thus moved for one unit each time for every disengagement of the catch-fastening.

The operation of the apparatus is such that when loaded the hook 3 is so far moved down that the stop 5 comes to rest upon the lower cross-bar of the yoke at the same time the retaining-catch 13 moves with the hook, and its heel being held back by the link 17 it is closed against the rope or chain resting in said hook. During the same movement the retaining-latch 14 engages over the upper collared end of the stop 5. Then the retaining-latch is kept locked, locking also the catch 13, until the responsible operator with a proper key unlocks the latch, at the same time registering the load.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination in a hoisting-hook, of the yoke, the spring-seated hook having a stop on its shank, the pivoted retaining-catch, and the link connecting the yoke and the heel end of said retaining-catch, whereby said catch is opened and closed by the rising and falling of the hook.

2. The combination in a hoisting-hook, of the yoke, the spring-seated hook, having a stop on its shank, the locking-latch with which said stop engages, when the hook is depressed, the retaining-catch pivoted to the hook and playing in a slot therethrough, and the link connecting the heel of said catch to the yoke.

3. The combination in a hoisting-hook, of the yoke, the spring-seated hook, the stop

upon its shank, the locking-latch urged
against said stop by a spring and engaging
over its upper end when the hook is depressed,
the registering apparatus arranged in such re-
5 lation to the latch and to a keyhole that the
latch may be released and the register oper-
ated by a key acting concurrently upon both,
the retaining-catch pivoted to the hook, and

the link connecting the heel of said catch to
the yoke. 10

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

PAUL JABLONOWSKY.

Witnesses:

E. H. L. MUMMENHOFF,
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