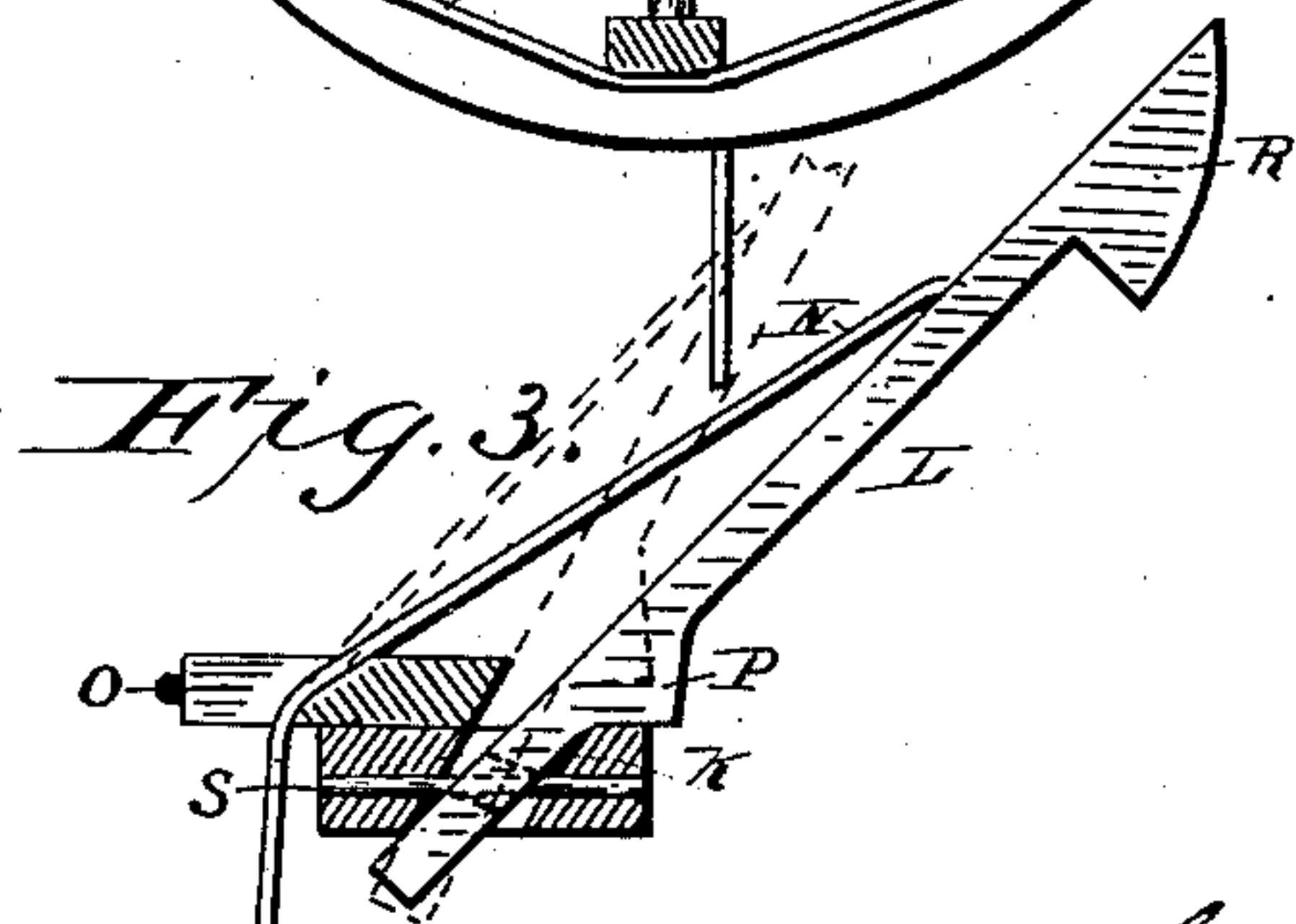
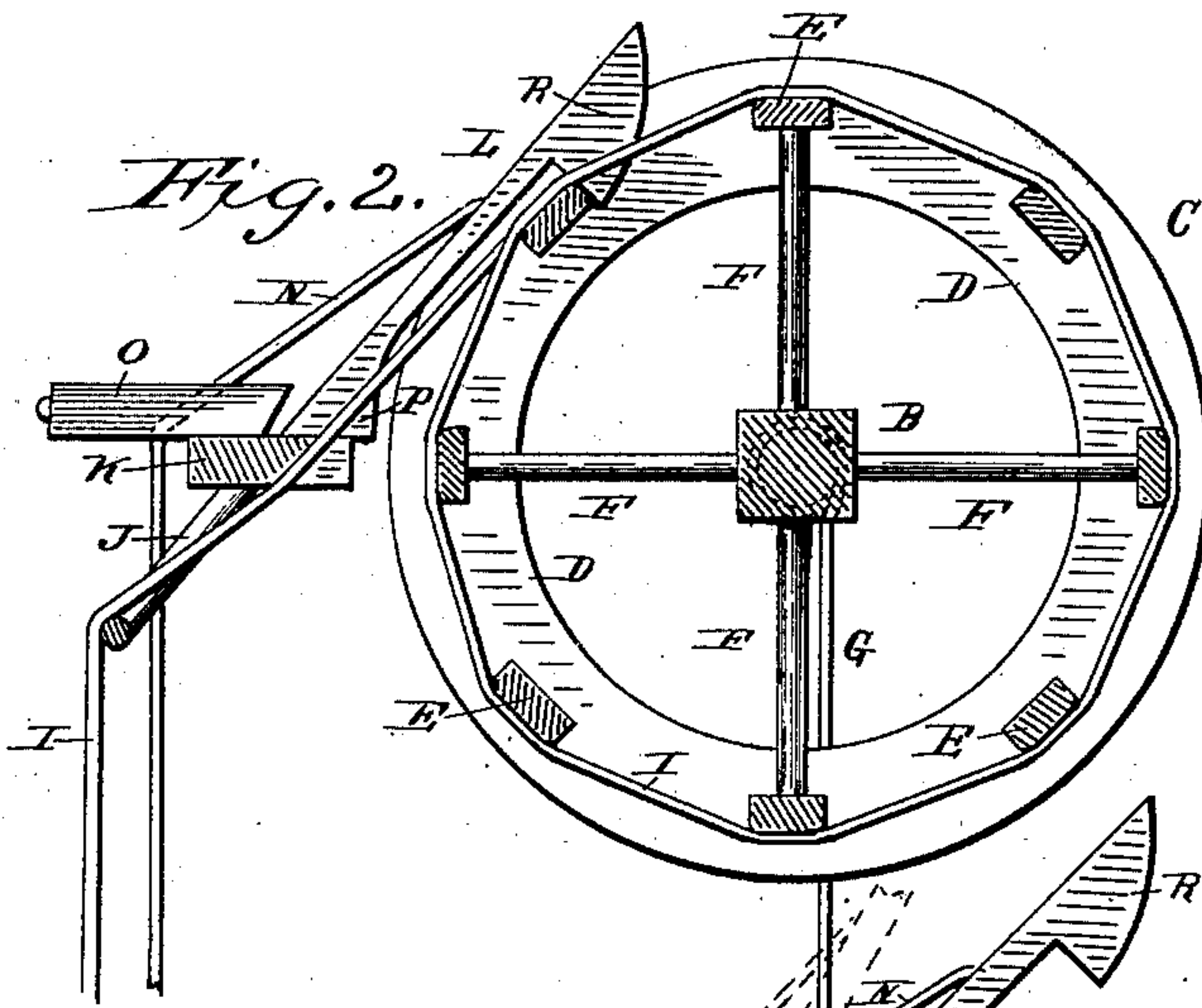
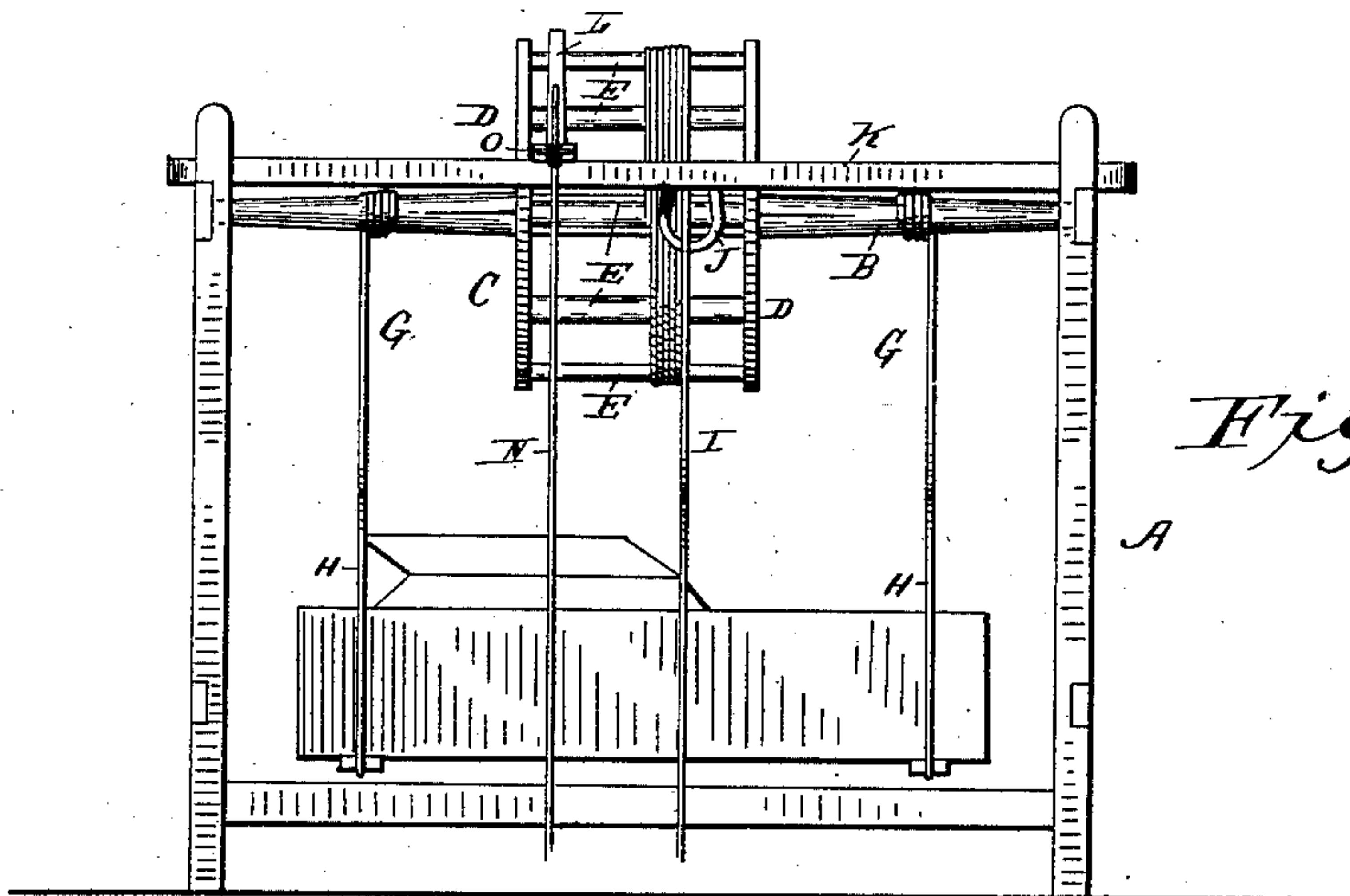


(No Model.)

L. SEVERNS.
HOISTING APPARATUS.

No. 359,182.

Patented Mar. 8, 1887.



Witnesses
Charles Davis
John S. Finch

Inventor
Leonard Severns
By his Attorney
W. M. Alexander

UNITED STATES PATENT OFFICE.

LENARD SEVERNS, OF BRIDGEPORT, ILLINOIS.

HOISTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 359,182, dated March 8, 1887.

Application filed December 2, 1886. Serial No. 220,429. (No model.)

To all whom it may concern:

Be it known that I, LENARD SEVERNS, a citizen of the United States, residing at Bridgeport, in the county of Lawrence and State of Illinois, have invented certain new and useful Improvements in Hoisting Apparatus, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in apparatus for hoisting or elevating bodies for various purposes, and is especially designed for raising the wagon-beds from wagons for the usual well-known purposes.

The invention has for its object to provide simple means for accomplishing the above-mentioned purposes; and it consists in certain novel features of construction and arrangements of parts, that will be fully hereinafter set forth and claimed.

The invention is illustrated by the accompanying drawings, in which—

Figure 1 represents a side view of the apparatus mounted upon a suitable frame; Fig. 2, a sectional view showing the drum and latch mechanism, and Fig. 3 a detail view of the latch.

Referring to the drawings annexed by letter, A designates a supporting-frame for the apparatus. Extending across this frame and having its ends journaled in suitable bearings in the side beams thereof is a horizontal shaft, B, which has secured upon it, about midway its length, a skeleton drum, C. This drum C is composed of two rings or bands, D, connected together by the bars E, from which latter to the shaft B extend the supporting-spokes F, as will be obvious from the drawings.

Attached to the shaft B, upon each side of the drum C, are two hoisting-ropes, G, which depend from the same, and may be provided with loops H, to enable them to be attached to the object being hoisted.

Secured to and wound around the bars E of the drum is the operating-rope I, which passes from the drum through a guiding-loop, J, secured to the beam K of the supporting-frame, and thence down to the ground, where the operator may grasp it, as is evident.

Situated on the beam K of the frame, immediately in front of the drum C, is the latch L,

to the upper end of which is attached an operating-cord, N, passing down through a slotted block, O, upon said beam to any point where it may be easily reached by the operator.

The latch L is provided with a beveled catch-shoulder, R, and rests in a diagonally-cut aperture in the beam K, and, through the medium of the shoulder P, which is formed on it and rests upon the said beam K, it is held in a proper position relative to the drum C, so as to engage with the bars composing the same, as will be manifest by reference to Figs. 2 and 3 of drawings. The lower end of the latch-bar L is provided with a slot, as shown in dotted lines, through which a bolt or pin, S, passes, for the purpose of retaining the latch-bar in the recess in the beam K and allowing it a certain amount of play backward and forward, as shown in Fig. 3, in order that it may be disengaged from the drum C when desired.

It is manifest that any suitable supporting-frame may be used in connection with the apparatus.

When it is desired to use this apparatus, the body to be hoisted is attached to the hoisting ropes or chains G, and the operating-rope I is then unwound from the drum C, the effect of which will be to wind the hoisting-ropes upon the shaft, and thus elevate the body attached to them.

The latch, by its construction, when in its normal position, will automatically and constantly engage with the bars composing the drum, thereby holding the same in any desired position and doing away with cleats or the tying of the ropes. When the latch-bar L is disengaged from the drum C by means of the cord N, the hoisting-ropes wound upon the shaft may be unwound, as is evident.

Being aware that it is not new to arrange the hoisting and operating ropes in the manner I have shown, I wish it understood that I lay no special claim to that portion of the apparatus; but

What I do claim, and desire to secure by Letters Patent, is—

In an apparatus for hoisting wagon-bodies and other objects, the combination of a suitable frame, the horizontal shaft B, supported upon said frame, and provided with hoisting-ropes, the skeleton drum C, secured upon said shaft,

and having wound around it the operating-rope I, with the latch-bar L, provided with the catch-shoulder R, and the supporting-shoulder P, and having its lower end held in a recess in one of the beams of the supporting-frame by a pin, S, and the latch-cord N, substantially as specified.

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

LENARD SEVERNS.

Witnesses:

B. F. BUNN,
B. F. WATSON.