

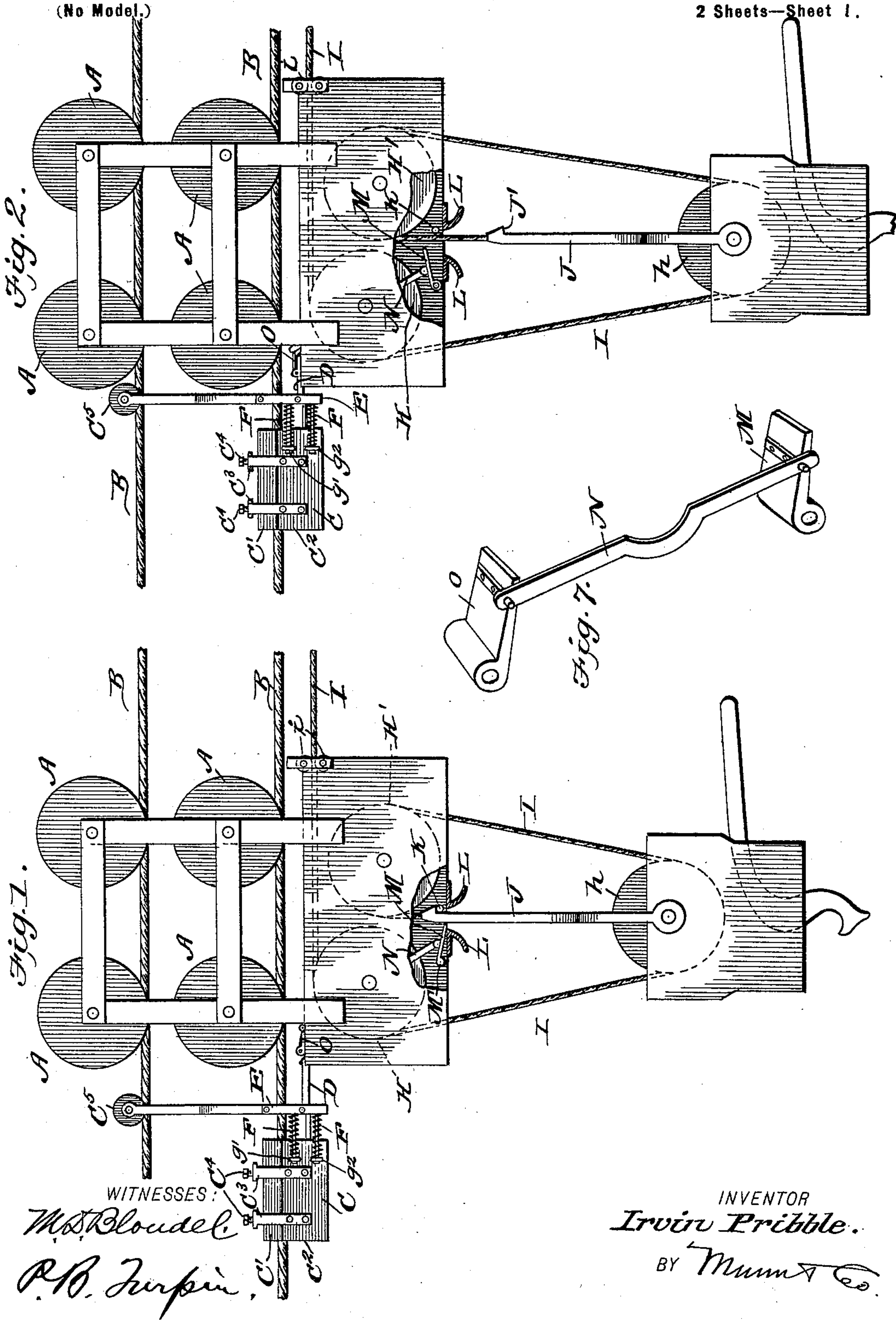
No. 636,554.

Patented Nov. 7, 1899.

I. PRIBBLE.
CARRIER.

(Application filed Feb. 2, 1899.)

2 Sheets—Sheet 1.



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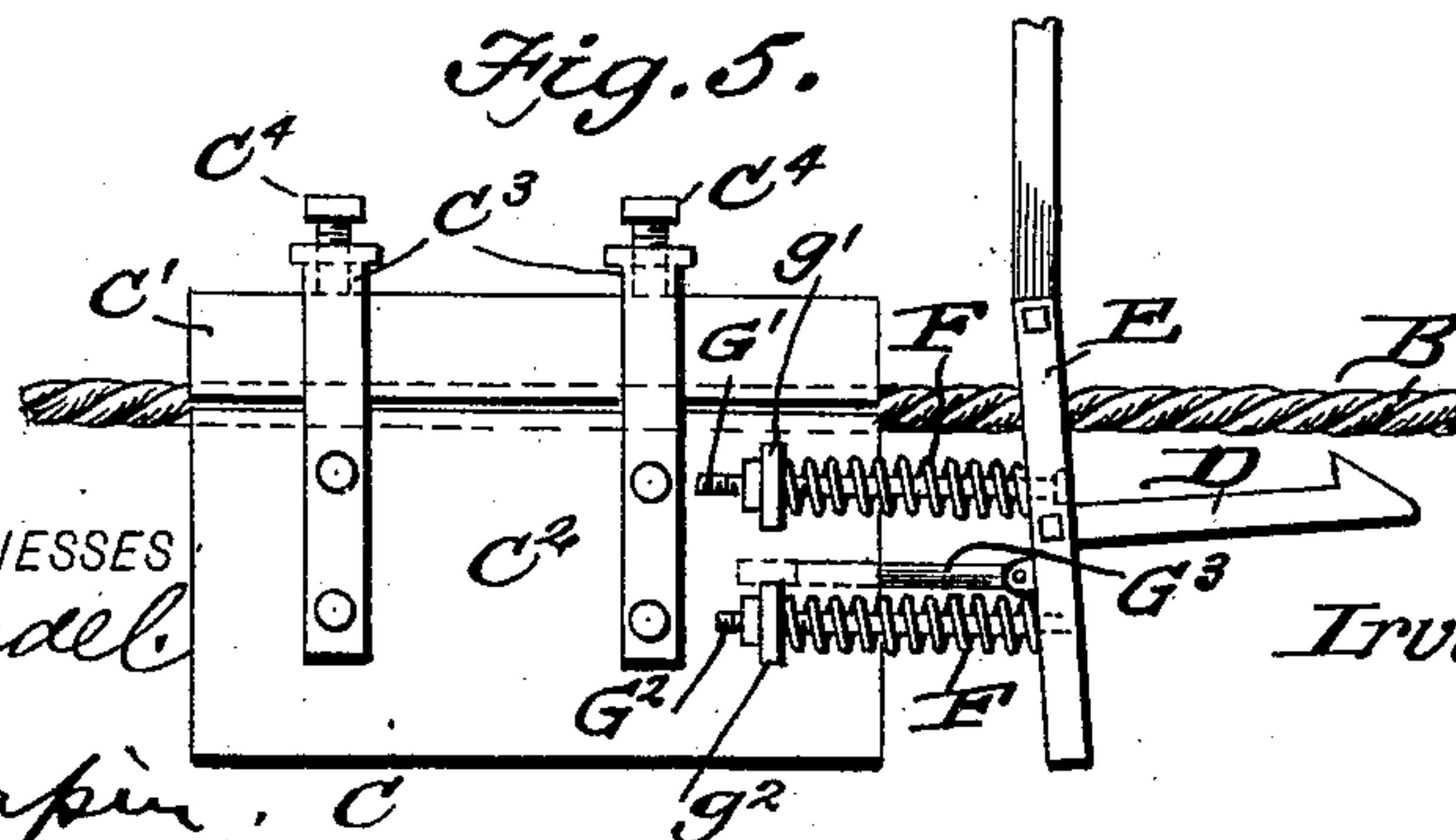
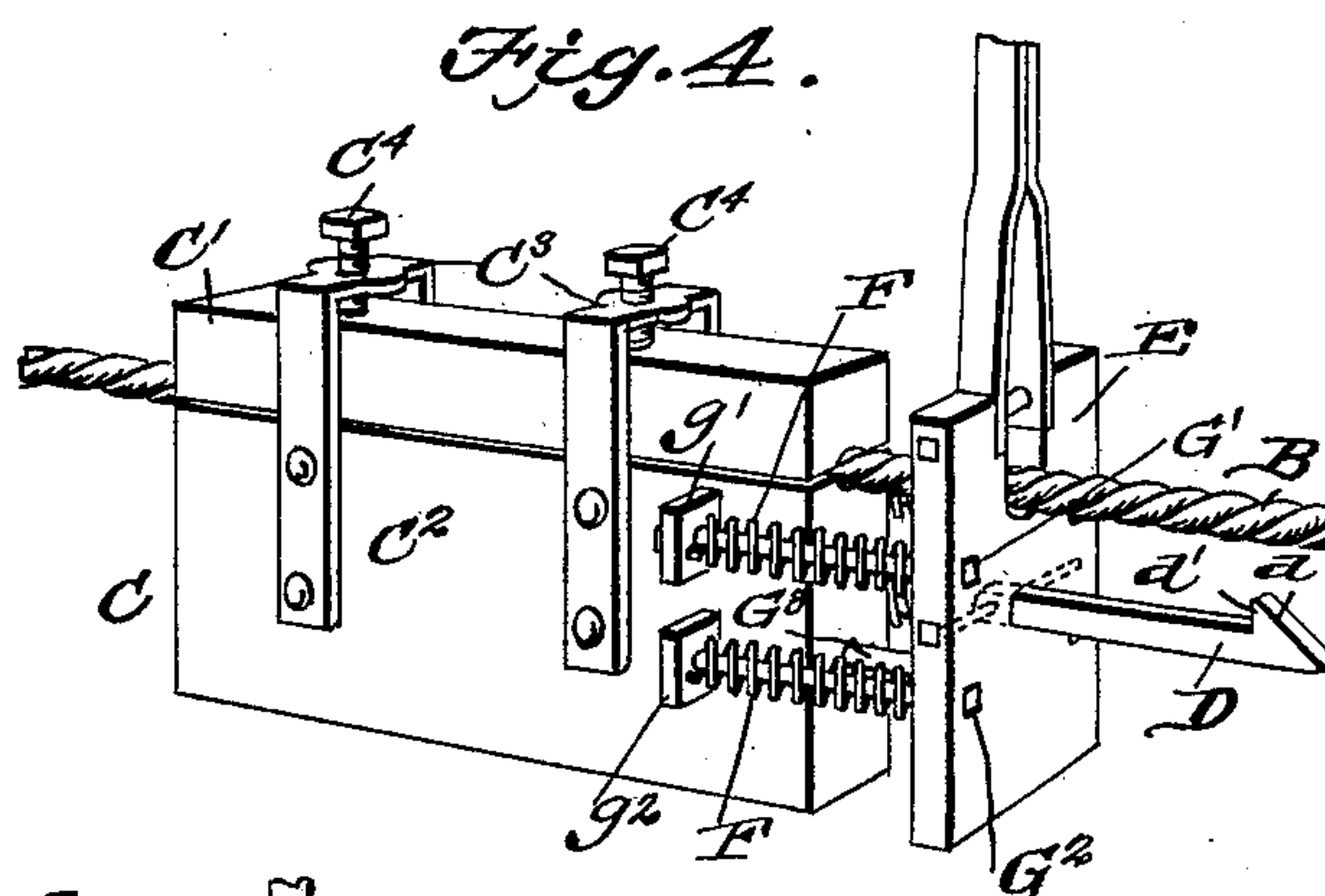
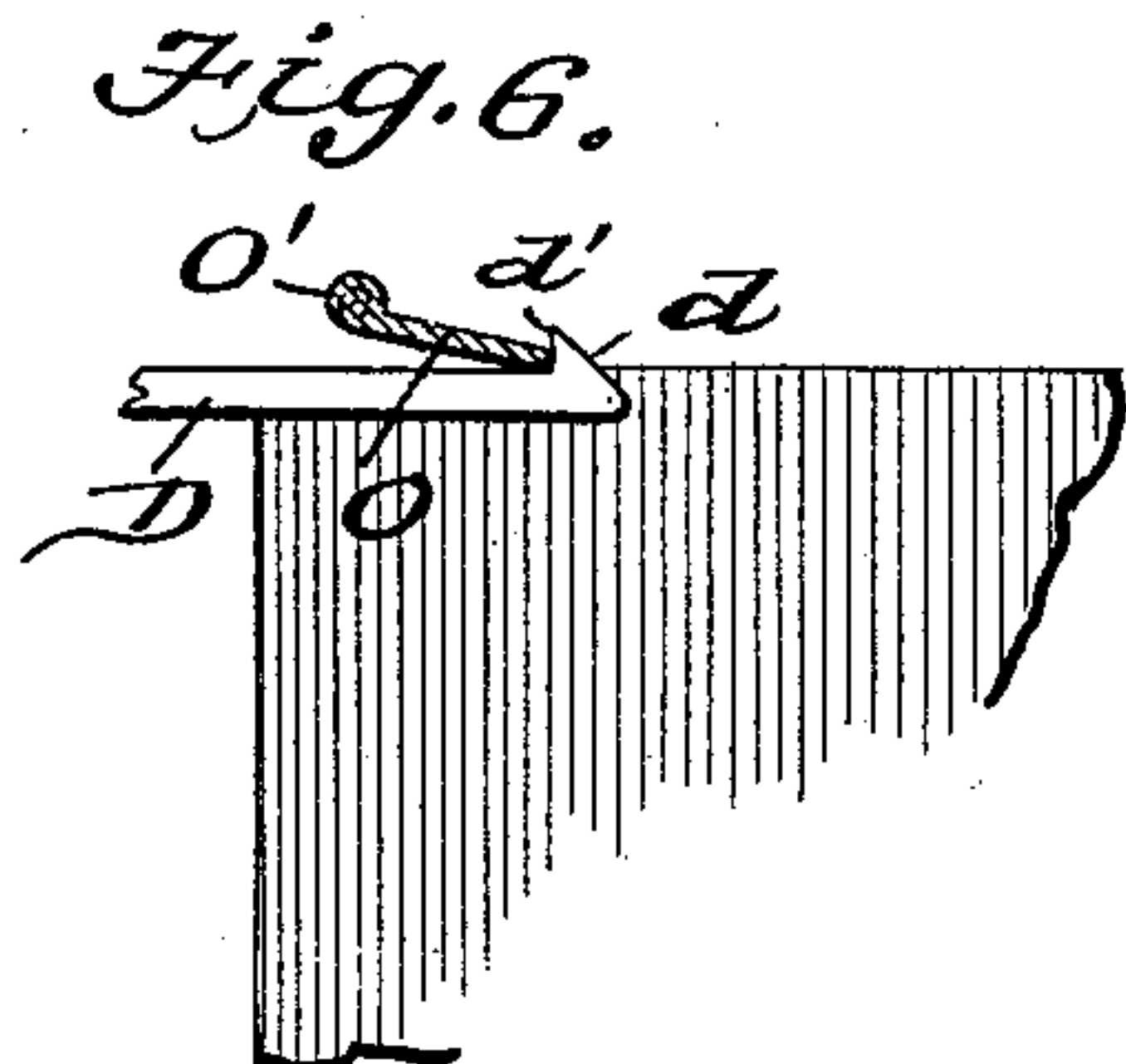
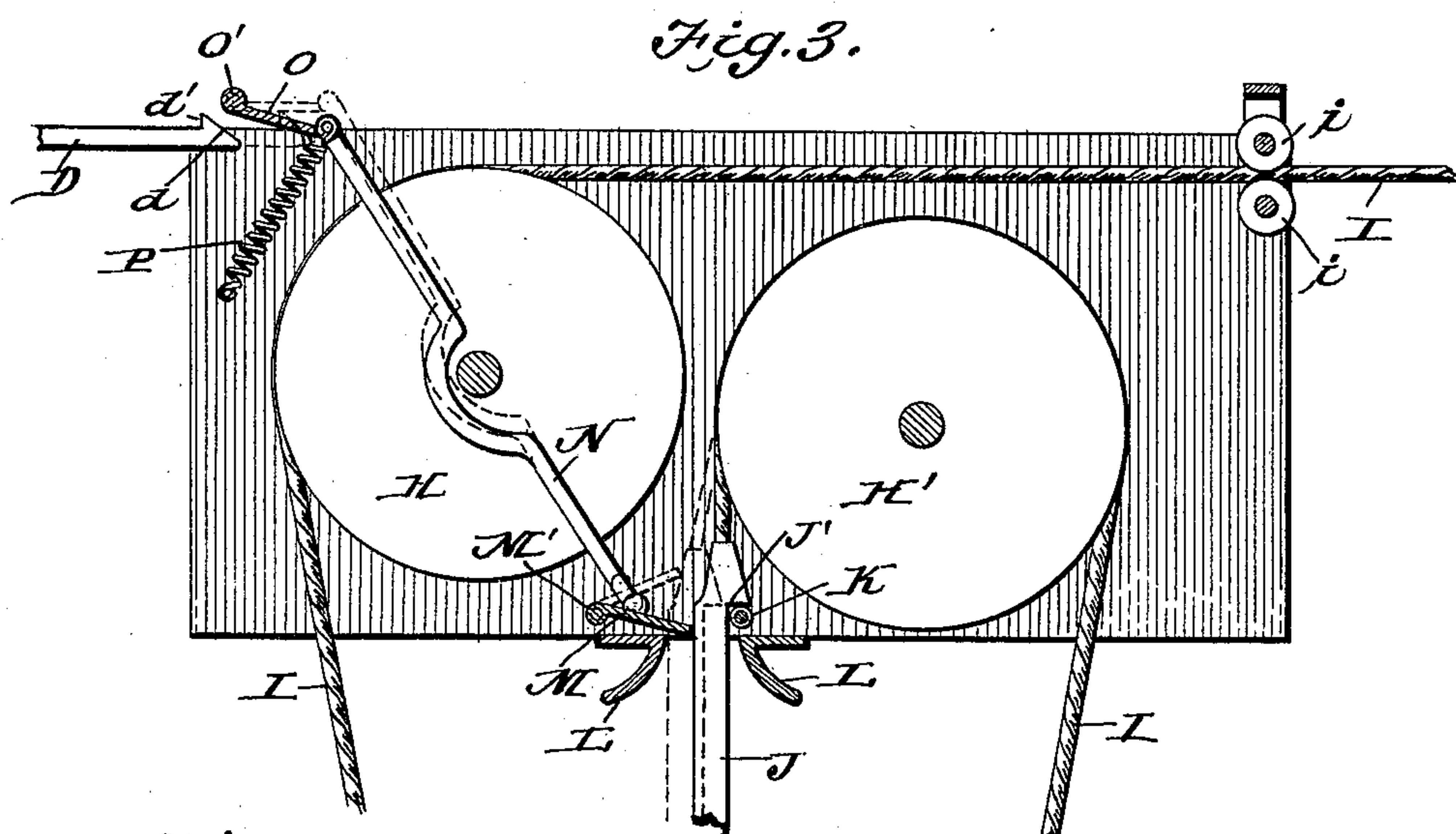
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**I. PRIBBLE.
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(No Model.)

2 Sheets—Sheet 2.



WITNESSES

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CARRIER.

SPECIFICATION forming part of Letters Patent No. 636,554, dated November 7, 1899.

Application filed February 2, 1899. Serial No. 704,328. (No model.)

To all whom it may concern:

Be it known that I, IRVIN PRIBBLE, residing at Topeka, in the county of Shawnee and State of Kansas, have made certain new and useful
5 Improvements in Carriers, of which the following is a specification.

My invention is an improvement in overhead carriers, and is especially designed for use in connection with a dredging-bucket, the carrier running on cables arranged at an
10 incline, and a stop being provided at the lower end of the incline to engage and hold a carrier at such position while the dredging-bucket is being lowered to be filled and while it is
15 being raised to the carrier, the bucket or the device supporting the same being provided with means which engage with the carrier and at the same time release it (the carrier) from its anchoring-stop, so the carrier can be
20 drawn up its inclined track to the desired point.

The invention consists in certain novel constructions and combination of parts, as will be hereinafter described, and pointed out in
25 the claims.

In the drawings, Figure 1 is a side view, part in section, showing the descending portion of the carrier held to the body of the carrier. Fig. 2 is a similar view showing such
30 portion detached from the body of the carrier, as when ascending or descending. Fig. 3 is a sectional side view of the carrier. Fig. 4 is a detail perspective view of the anchoring-stop. Fig. 5 is a side view of same. Fig.
35 6 is a detail view showing the latch on the carrier engaged with the hook of the anchoring-stop, and Fig. 7 is a detail view illustrating the catch and latch and the bar connecting the same.

40 The carrier is provided with pulleys A A, which run on the cables B, and the latter are preferably inclined downward to the stop C, which is secured to the lower cable. This stop C, I term the "anchoring-stop," because it
45 checks the downward movement of the carrier and is provided with the hook D, which anchors the carrier in the manner presently described. This stop C is secured to the lower cable, being formed in upper and lower sections C' and C², and the upper section being fit-

ted within bails C³, secured to the lower section and receiving the set-screws C⁴, by which the sections C' C² may be pressed together to clamp the lower cable. The stop is also provided with a pulley C⁵, which runs upon the
55 upper cable and facilitates the shifting of the stop along the cable when it is desired to change its position, it being understood that at such times the screws C⁴ may be loosened. In the construction shown the pulley C⁵ is
60 carried on an upper extension of a yielding buffer-plate E, which is held in advance of the fixed portion of the stop by the coil-springs F, which encircle bolts G' and G², arranged one above the other and at the opposite edges
65 of the buffer E. These bolts G' and G² pass through suitable bearings g' and g² and may be adjusted, as will be understood from Fig. 5, to tilt the plate E to adjust the hook D, which is carried by said plate to properly engage with
70 the carrier. A guide-pin G³ is secured to the rear side of the plate E and plays in an opening in the front end of the section C² of the stop. At its outer end the hook D is beveled at d and provided with a shoulder d' for en-
75 gagement by the tilting latch on the carrier.

The carrier is provided with the guide-pulleys H and H', over which passes the rope I, by which is suspended the dredger-bucket or other device from the carrier, and this rope
80 I also operates to draw the carrier up the incline cable to the desired point, it being guided into and out of the body of the carrier by the small pulleys i. (Shown in Fig. 3.) As shown in the drawings, the cable I passes
85 into the carrier between the pulleys i, thence over the pulley H, thence down under a pulley h on the lower portion of the carrier, thence up over the pulley H', thence down between the pulleys H H', and is made fast to
90 the upper end of the headed bar J at the upper end of the lower portion of the carrier. This portion J is provided at its upper end on the side opposite the stop C with the shoulder J', which engages, in the position of parts
95 shown in Fig. 1, upon the roller or cross-bar K in the body of the carrier, being directed to such engagement by the guides L at the bottom of the body of the carrier. When in such position, the bar J is locked by a latch
100

M, which is pivoted at one end on the bolt M' and drops at its other end in rear of the bar J and secures the same upon the part K. This latch M is connected pivotally by a rod
 5 N with the catch O, which latter is pivoted at one edge on the bolt O', connects at its other edge pivotally with the rod N, as shown in Fig. 7, and is also arranged at such free edge for engagement with the shoulder d' on
 10 the hook D. These parts are well shown in Fig. 3 and are held normally to the full-line position shown in Fig. 3 by the contractile spring P, which permits them to adjust to the dotted-line position shown in said figure,
 15 from which it will be seen that as the carrier moves down into engagement with the hook D the latch M will be lifted to permit the head of bar J to escape from the roller K, such escape being facilitated by the forma-
 20 tion of the shoulder J' on the side of bar J opposite the stop C, so the momentum of the bar J and the parts connected therewith will cause the said bar to swing off the support-
 25 ing-roller. In the operation of the invention when the parts are as shown in Fig. 3 and the carrier moves into engagement with the stop the hook D will lift the latch O, and such latch,
 30 through the rod N, will lift the latch M, and the bar J, with the dredger-bucket or other attached device, will descend, as desired, the spring P readjusting the bar N and the latches O and M. As the bar J ascends it will lift
 35 the latch M, and thus free the latch O from the hook D, and the bar J will engage with the roller K, and be locked in such engagement by the latch M, and the continued draft on the cable I will draw the carrier up the in-
 40 clined track to the desired position. Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In an apparatus substantially as de-
 45 scribed the combination of the upper and lower cables, the stop provided with means whereby it may be clamped to the lower cable and a pulley connected with the stop and

engaging the upper cable substantially as set forth.

2. In an apparatus substantially as de- 50 scribed the stop provided with the yielding buffer-plate having the attached anchor-hook, the upper and lower springs supporting said buffer-plate and the bolts whereby said buffer-plate may be adjusted to cause the stop to 55 properly engage with the carrier substantially as set forth.

3. A carrier substantially as described comprising the body, the latch for engagement with the anchoring-hook, and the latch for 60 securing the bar of the lower section in engagement with said body, the said latches being pivoted at one edge and extending thence in practically the same direction, and the bar connecting said latches whereby they will be 65 operated after the fashion of a parallel ruler, substantially as set forth.

4. The combination of the carrier-body, the anchor-stop therefor, the bar on the lower section arranged to engage the carrier-body, 70 the latches coöperating respectively with the anchor-stop and with the bar on the lower section, such latches being pivoted at one edge and projecting thence in practically the same direction, the bar connecting such 75 latches, and the spring arranged to operate the latches and connecting-bar substantially as set forth.

5. In a carrier a stop or buffer provided with a rockable spring-actuated buffer-plate 80 provided with means for engagement with the carrier-body substantially as set forth.

6. In a carrier, the stop having a buffer-plate pivoted between its upper and lower ends, the springs engaging said plate above 85 and below its pivot, and the bolts for adjusting said springs relatively whereby to rock the buffer-plate to adjust the same substantially as set forth.

IRVIN PRIBBLE.

Witnesses:

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