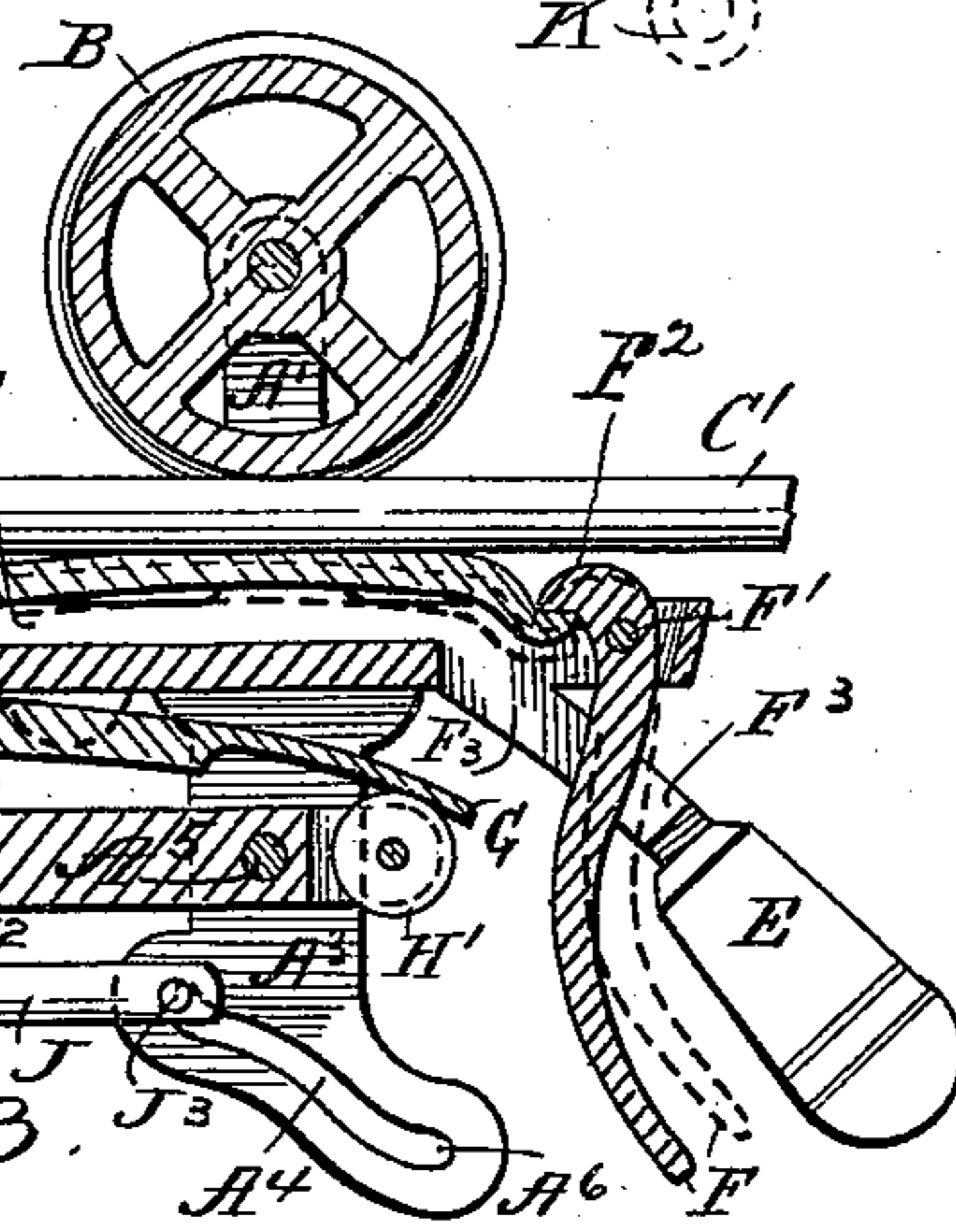
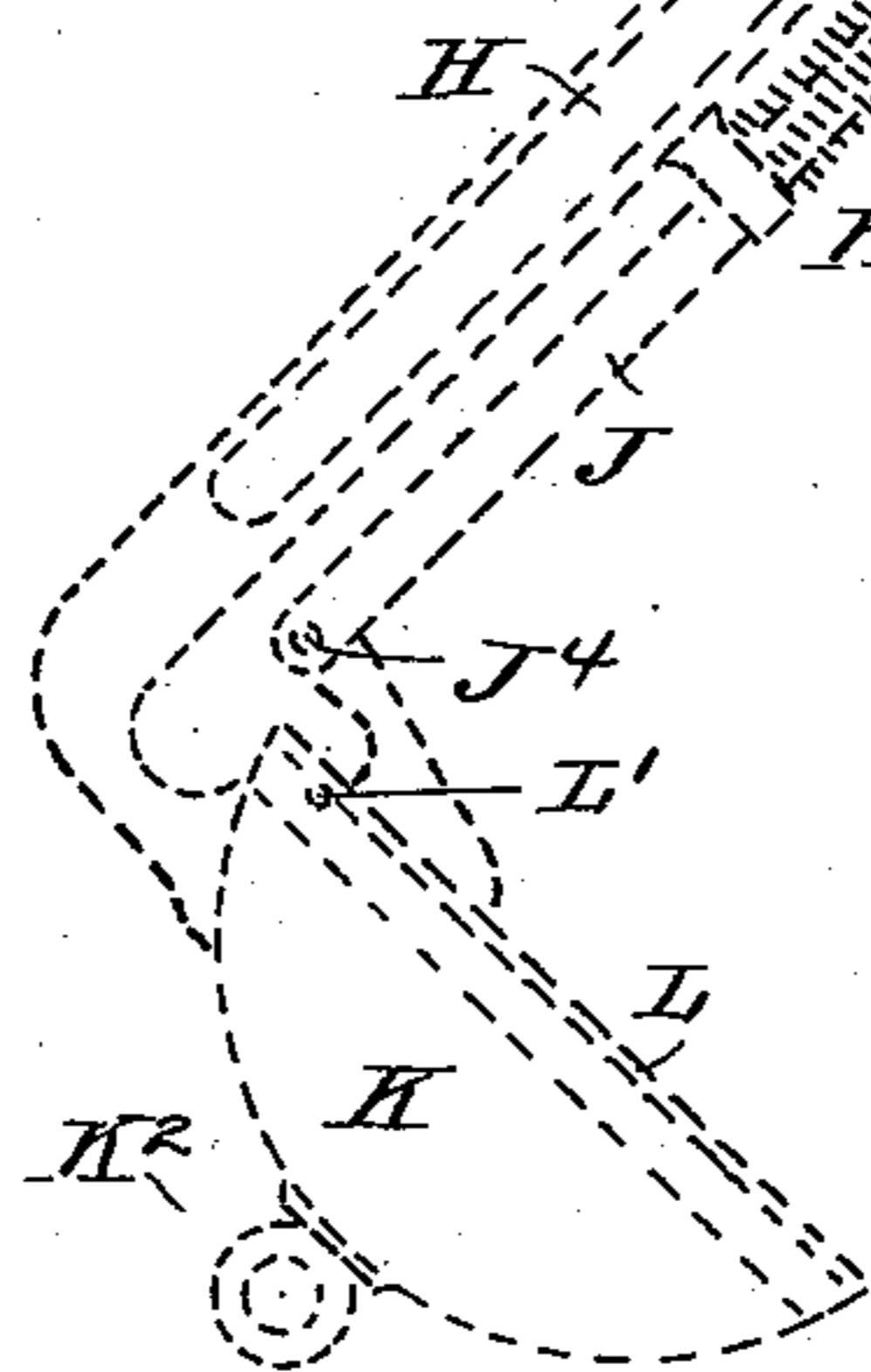
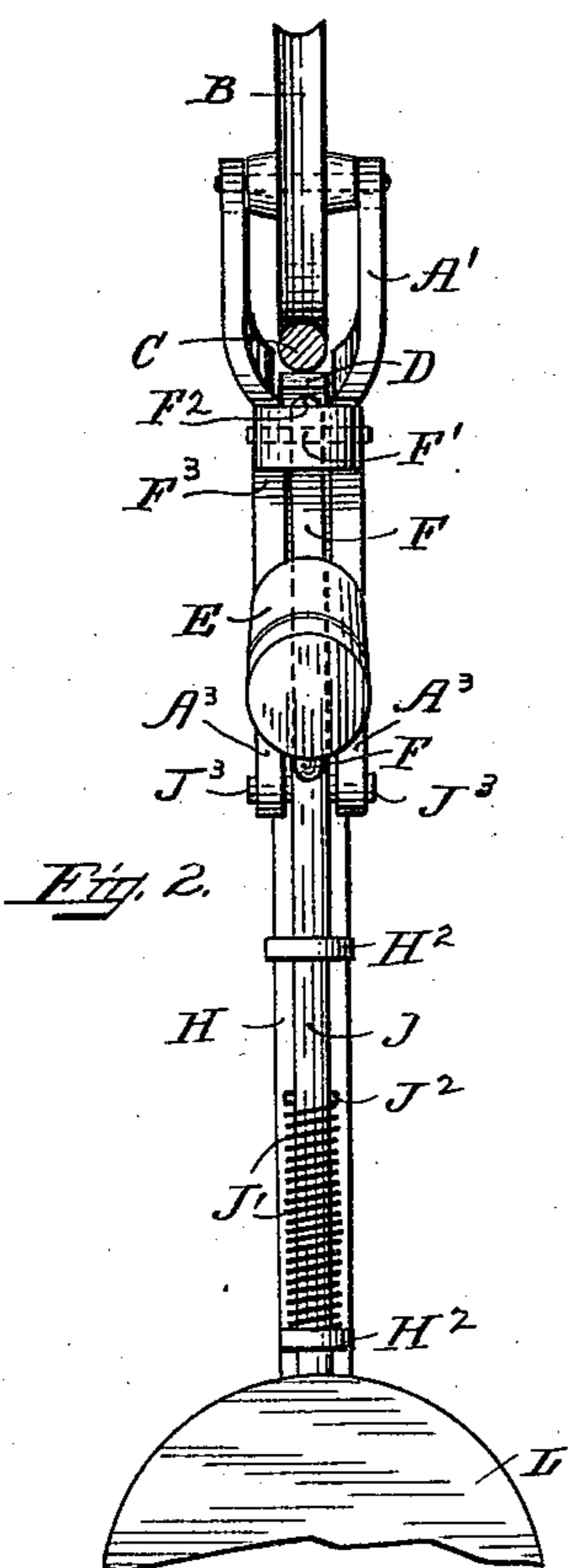
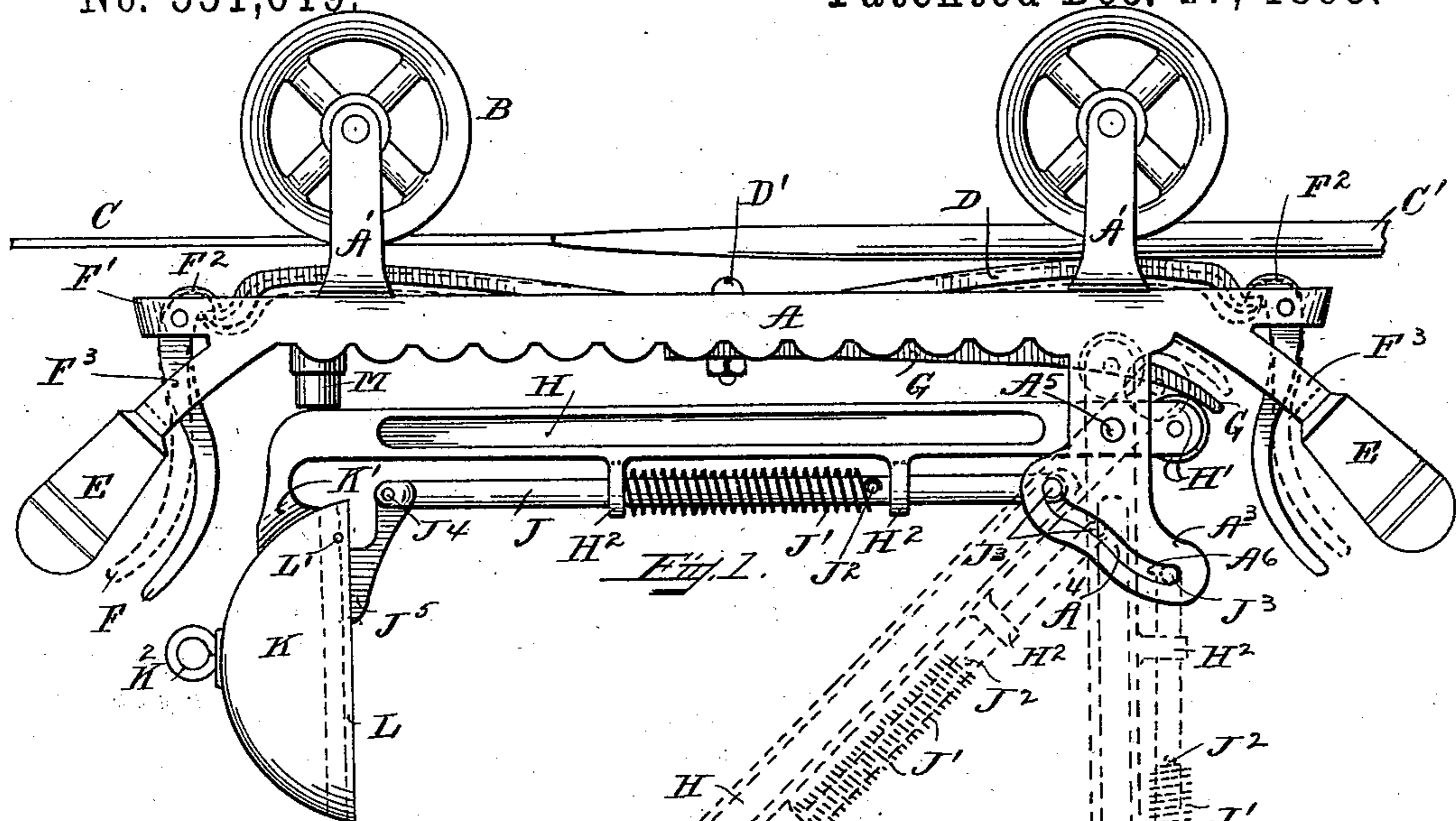


(No Model.)

J. T. COWLEY.
STORE SERVICE APPARATUS.

No. 551,619.

Patented Dec. 17, 1895.



Witnesses:
E. L. Harlow
L. H. Brown

Inventor:
Jos. T. Cowley
By Graham & Hook
Attys

UNITED STATES PATENT OFFICE.

JAMES T. COWLEY, OF LOWELL, MASSACHUSETTS, ASSIGNOR TO THE
LAMSON CONSOLIDATED STORE SERVICE COMPANY, OF NEWARK,
NEW JERSEY.

STORE-SERVICE APPARATUS.

SPECIFICATION forming part of Letters Patent No. 551,619, dated December 17, 1895.

Application filed March 29, 1895. Serial No. 543,664. (No model.)

To all whom it may concern:

Be it known that I, JAMES T. COWLEY, of Lowell, county of Middlesex, and State of Massachusetts, have invented new and useful Improvements in Store-Service Apparatus; and I hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to apparatus for conveying cash and parcels to and from the salesman's stations and cashier's desk, and it consists of certain novel features, arrangements and combinations hereinafter described, and particularly pointed out in the claims.

In the figures illustrating my invention, Figure 1 represents a side view of my improved carrier, showing the arrangement of the parts in full lines and also in dotted lines. Fig. 2 is an end view of the carrier. Fig. 3 is a longitudinal sectional view of a part of the carrier.

Like letters of reference refer to like parts throughout the several views.

Extending upwardly from the carrier-frame A, near each end, are standards A', in which are journaled the carrier-wheels B, which are adapted to run upon a suitable line or way C, which is provided with enlarged ends C' upon which the carrier is adapted to wedge at each end thereof. Located in the frame of the carrier is a flat spring D, which is secured by means of a bolt and nut D' to the bottom plate A² of the carrier-frame A.

At each end of the plate A² there is firmly secured a handle E, and at each end of the carrier frame there is pivoted at F' a lever F, which has an upper finger F² adapted to be in contact with each free end of the flat spring D, and said levers pass through slots F³ formed in each of the handles E of the bottom plate A² of the frame. To the bottom plate A² there is secured a flat spring G by the same bolt and nut D' which secure the flat spring D in place. Said spring G extends along underneath the said plate A², as shown in the drawings. From the frame of the carrier at one end there extend downwardly two arms A³, between which the lever

H is pivoted at A⁵. The lower end of each arm A³ is provided with a cam-slot A⁴. The lever H, pivoted between the arms A³, extends beneath the carrier-frame A, and the opposite end is attached to the receptacle K at K'. Extending downwardly from the lever H are lugs H², through which the rod J passes, and around said rod between the lugs H² is arranged a spring J', secured to said rod J by a pin J², and the opposite end of the spring bears against one of the lugs H². To one end of this rod is fastened a pin J³, projecting from each side of the rod, and working in both slots A⁴ in the arms A³. The opposite end of this rod is pivoted at J⁴ to the arm J⁵ of the cover L, and this cover L is pivoted to the receptacle K at L'.

Pivoted at F' at each end of the carrier-frame A are suitable levers F, the upper end F² of which is adapted to engage with each end of the spring D, and said levers pass down through the slots F³ in the handles E.

Supposing a carrier is located at the salesman's end and it is desired to send the money to the cashier, the operator takes hold of the eye K² on the receptacle K and pulls down said receptacle to a vertical position, as shown in dotted lines, Fig. 1, and in this downward movement of the lever H, carrying the receptacle K, the pin J³ on the rod J travels along the cam-slot A⁴ in the arm A³. During the first half of this movement, as indicated in inclined dotted position in Fig. 1, the pin J³, traveling in the first half of the cam-slot A⁴, will maintain the rod J in substantially the same position which it had in full lines, Fig. 1, because the part of the cam-slot in the first half of this movement is formed with the pivot A⁵ as a center; but in the continuation of the downward movement the pin J³ will move in that portion A⁶ of the slot A⁴ which is not drawn from the same center, but is inclined downwardly, and as the pin J³ travels in this downward inclined portion of the slot, the rod J will be pushed downward and raise the cover of the receptacle to the position shown in vertical lines, Fig. 1. Now assuming the money has been placed in the receptacle and it has been raised to the position shown in full lines, Fig. 1, the flat spring G,

bearing upon the roller H' mounted in the end of the lever H, pushes downwardly upon this roller and tends to hold the lever H in a horizontal position in contact with the cushioning-stop M, and as the lever H is raised to this horizontal position, the pin J³ traveling backward in the portion A⁶ of the slot A⁴ will allow this spring J', which has been compressed by the downward movement of the lever H, to exert its tension to close the cover L of the receptacle K by tending to push upward on the rod J as the pin moves backward in the cam-slot A⁴, so that by the time the receptacle in its upward movement has reached an inclined position (shown in dotted lines) the cover has been closed and remains closed during the continued downward movement of the receptacle, which is held in said upward position by the spring G.

To dispatch the carrier to the other end of the line, the operator grasps the handle E and lever F, and by exerting pressure thereon the upper end F² of lever F pushes downward on the spring D and releases same from close contact with the enlarged portion C' of the track C, and sufficient impulse being given to the carrier, it is sent along the line to the opposite end thereof.

When the carrier has been received at the opposite end of the way it is operated in identically the same manner as above described, and after the change has been made it is dispatched back to the salesman, and lodges upon the enlarged portion C' at his end of the track.

I do not limit myself to the arrangement and construction shown, as the same may be varied without departing from the spirit of my invention.

Having thus ascertained the nature and set forth a construction embodying my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a store service apparatus, the combination with the way, of a carrier mounted thereon, a lever pivoted to the body of the carrier, a receptacle carried upon the opposite end of said lever, a spring bearing on the upper end of said lever, a cover normally closing said receptacle, a rod connected at one end to said cover and having its oppo-

site end mounted in the body of the carrier, a cam surface on which said opposite end is adapted to move and means for opening said cover as the receptacle approaches its lowest position.

2. In a store service apparatus, the combination with the way, of a carrier mounted thereon, a lever pivoted to the body of the carrier, a receptacle carried upon the opposite end of said lever, a spring bearing on the upper end of said lever, a cover pivoted to said receptacle and normally closing the same, a rod connected at one end to said cover and having its opposite end mounted in the body of the carrier, a spring mounted on said rod tending to hold the cover closed, and means for opening said cover against the tension of said spring as the receptacle approaches its lowest position.

3. In a store service apparatus, the combination with the way, of a carrier mounted thereon, a lever pivoted to the body of the carrier, a receptacle carried upon the opposite end of said lever, a spring bearing on the upper end of said lever, a cover pivoted to said receptacle and normally closing the same, a rod connected at one end to said cover and having its opposite end mounted in the body of the carrier, and means for positively keeping said cover closed until the receptacle approaches its lowest position.

4. In a store service apparatus, the combination with the way, of a carrier mounted thereon, a lever, pivoted to the body of the carrier, a receptacle carried upon the end of said lever, a cover normally closing said receptacle, a spring bearing upon the upper end of said lever, a rod pivotally connected at one end to said cover and having its opposite end working in an irregular cam slot to retain the cover normally closed and open the same as the receptacle approaches its lowest position.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 27th day of March, A. D. 1895.

JAMES T. COWLEY.

Witnesses:

L. H. TROW,
E. L. HARLOW.