

No. 742,732.

PATENTED OCT. 27, 1903.

C. W. PLATT.
COIN CONTROLLED VENDING APPARATUS.

APPLICATION FILED AUG. 8, 1902.

NO MODEL.

3 SHEETS—SHEET 1.

Fig. 1.

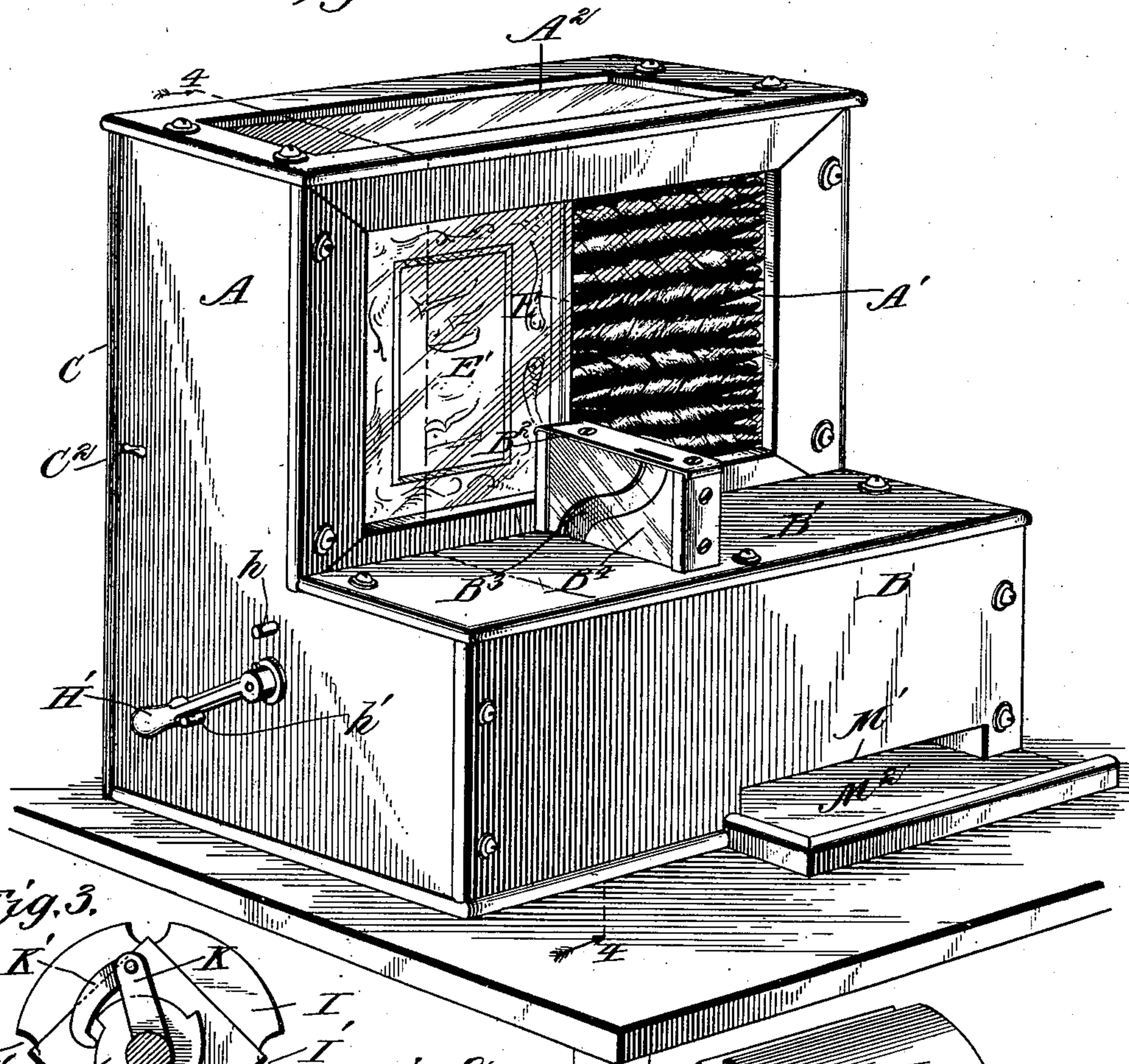


Fig. 3.

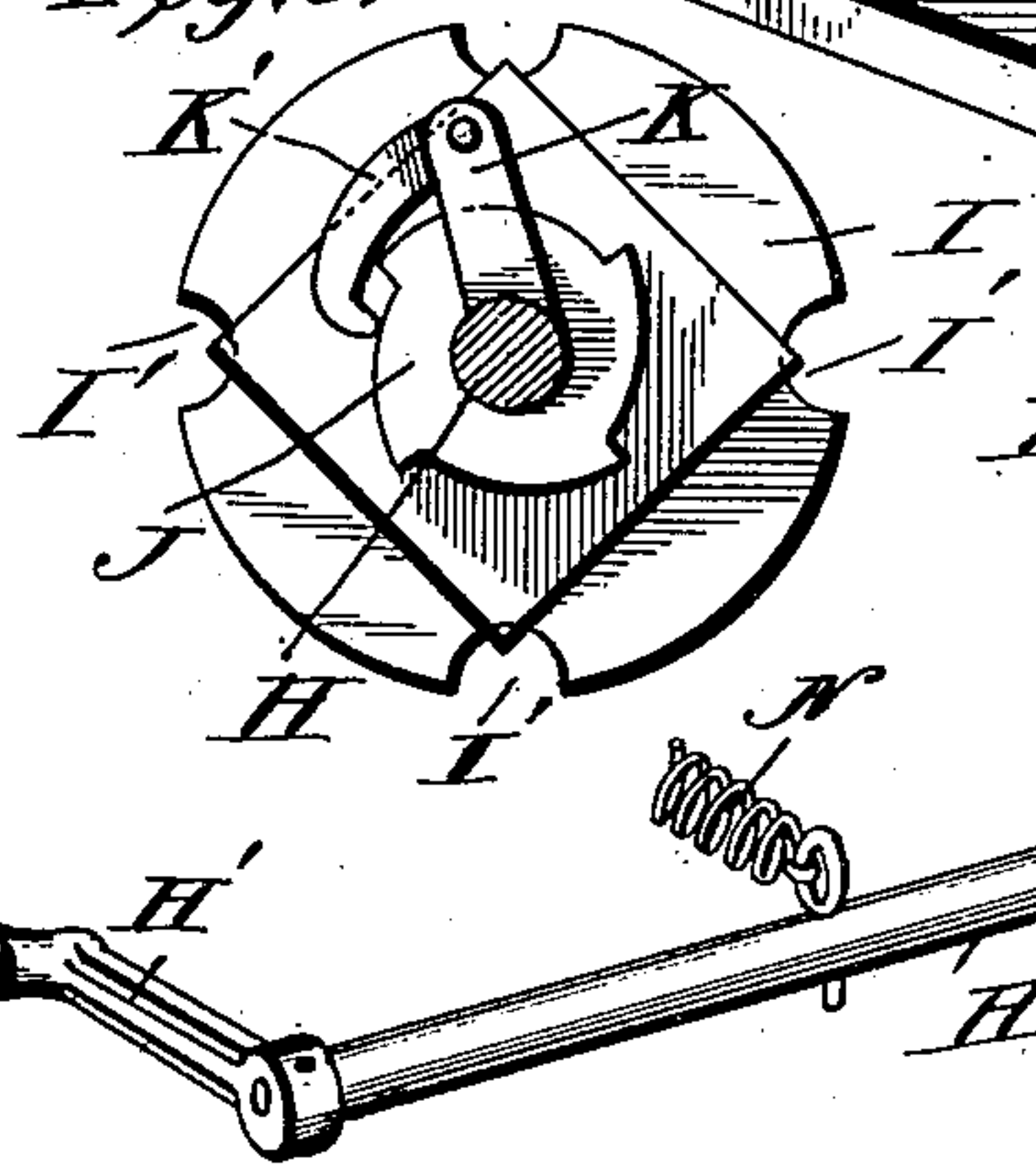
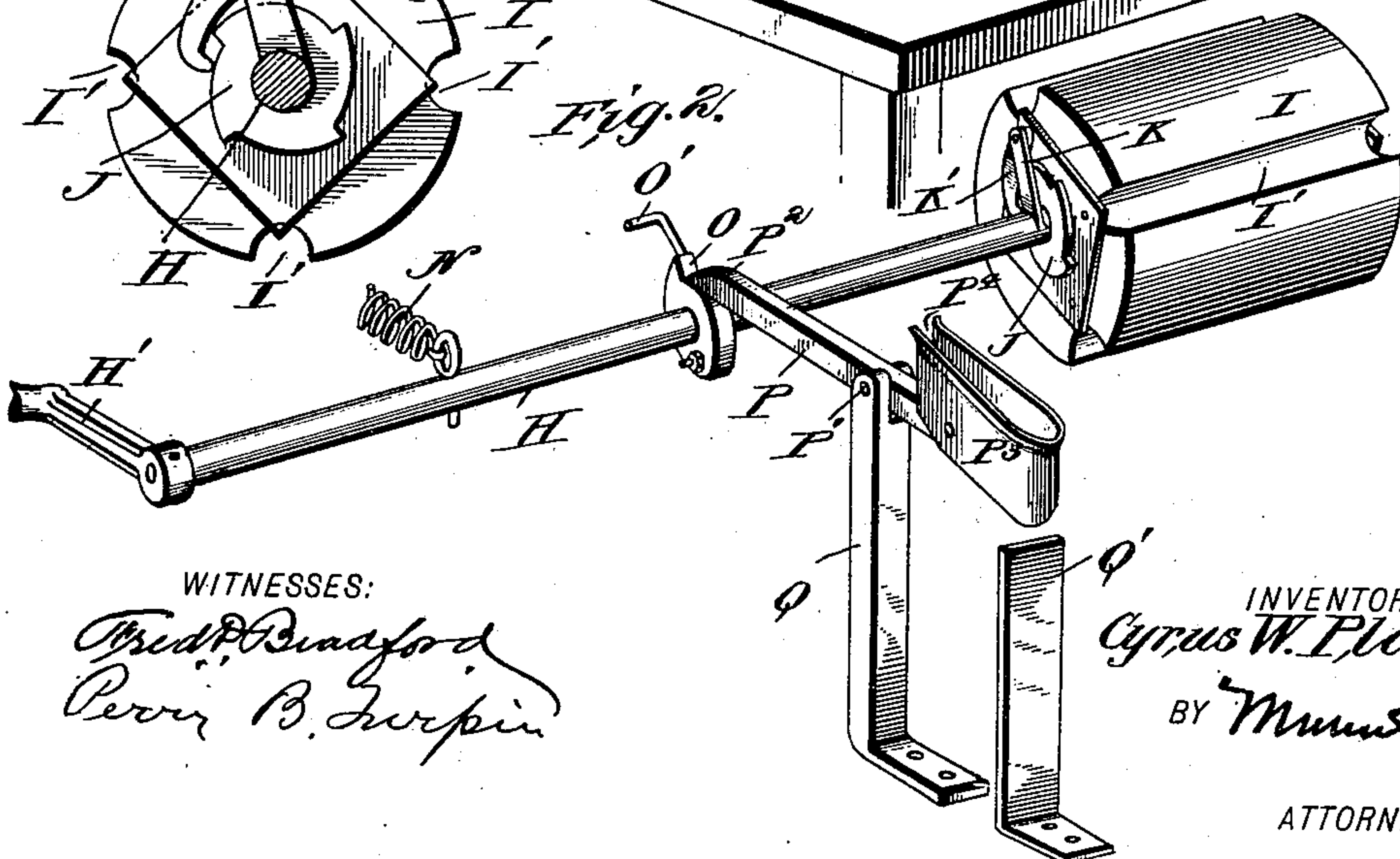


Fig. 2.



WITNESSES:

Frederick B. Bradford
Levin B. Swepin

INVENTOR
Cyrus W. Platt
BY *Munn & Co.*
ATTORNEYS.

No. 742,732.

PATENTED OCT. 27, 1903.

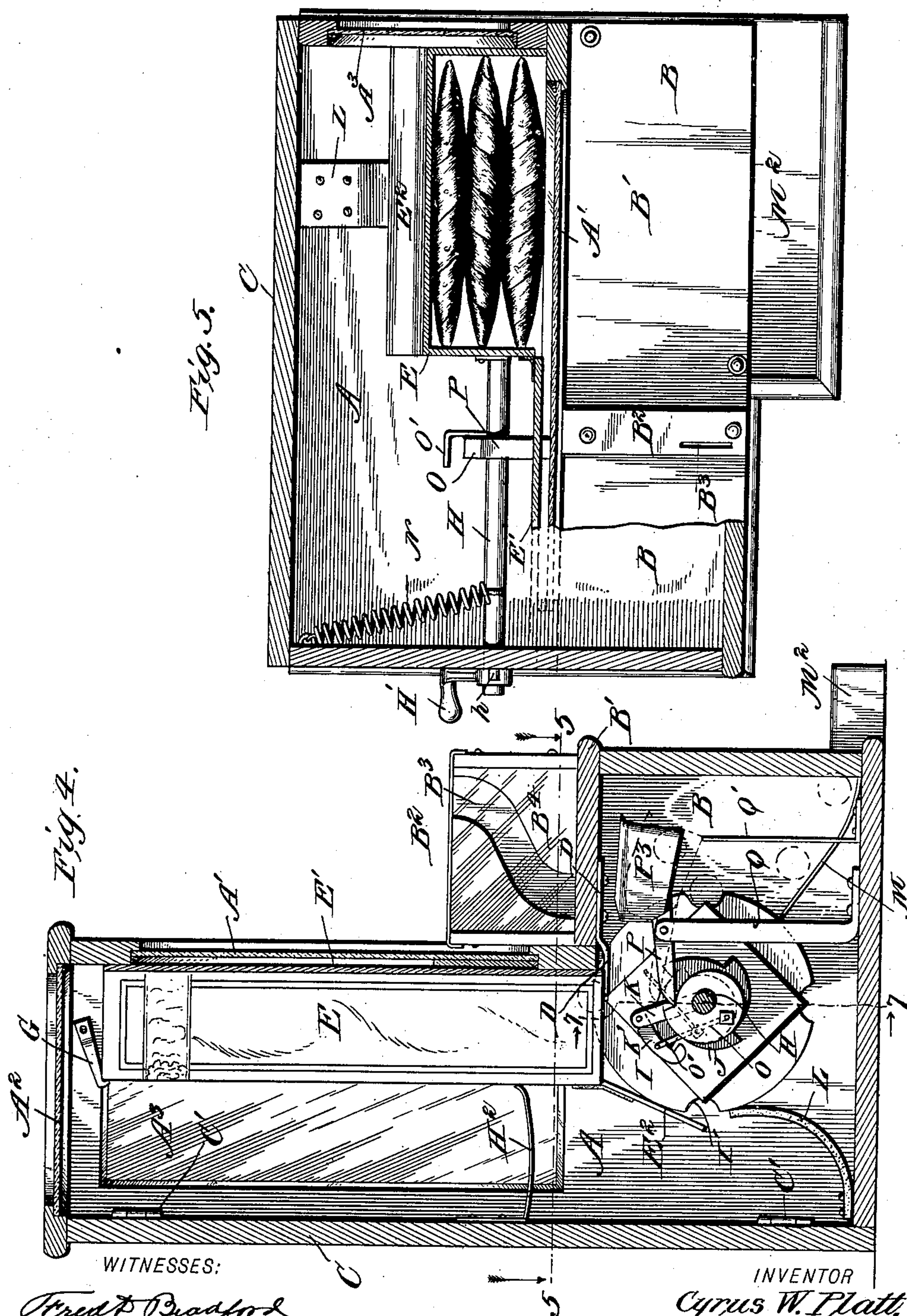
C. W. PLATT.

COIN CONTROLLED VENDING APPARATUS.

APPLICATION FILED AUG. 8, 1902.

NO MODEL.

3 SHEETS—SHEET 2.



C. W. PLATT.
COIN CONTROLLED VENDING APPARATUS.

APPLICATION FILED AUG. 8, 1902.

NO MODEL.

3 SHEETS—SHEET 3.

Fig. 6.

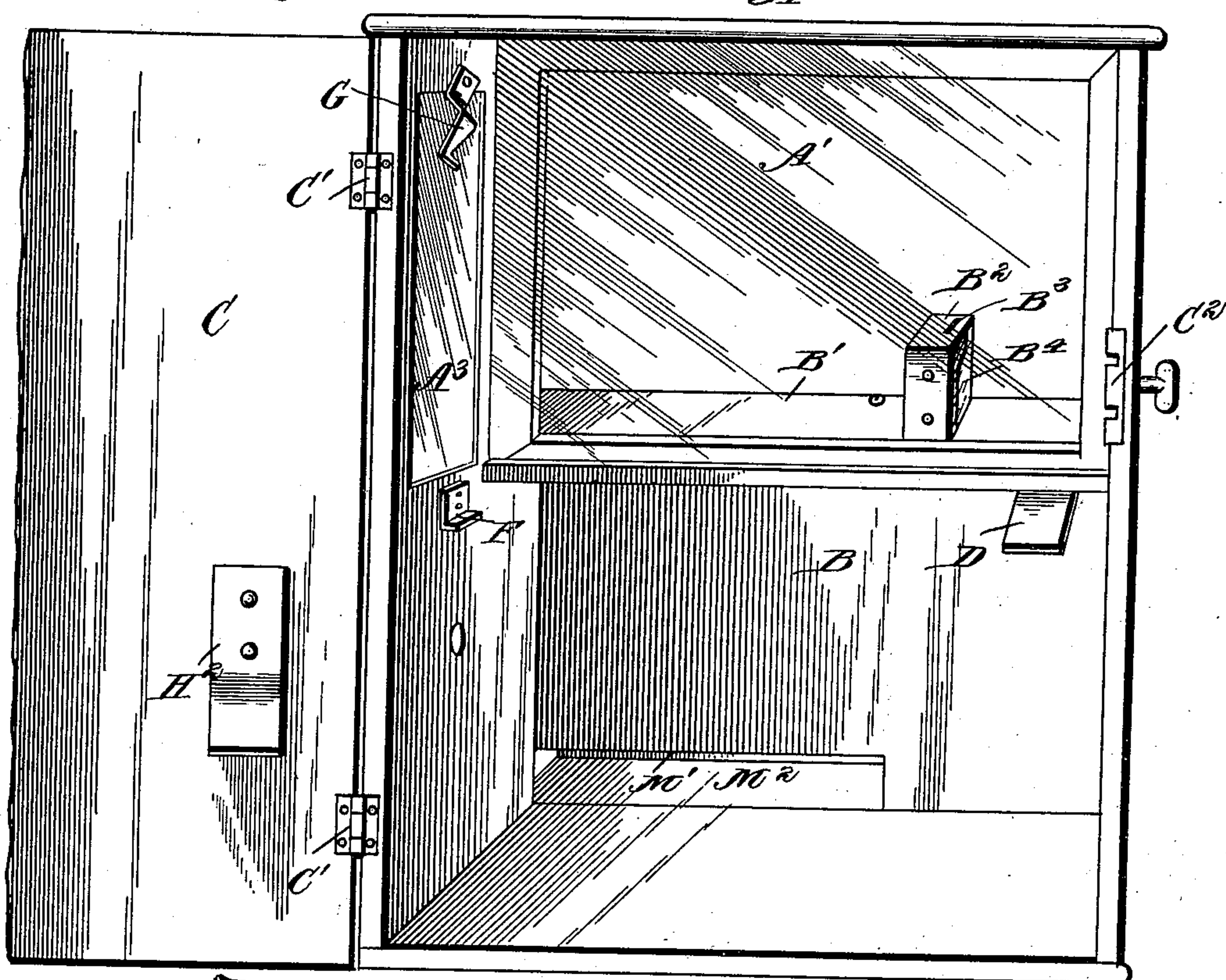


Fig. 7.

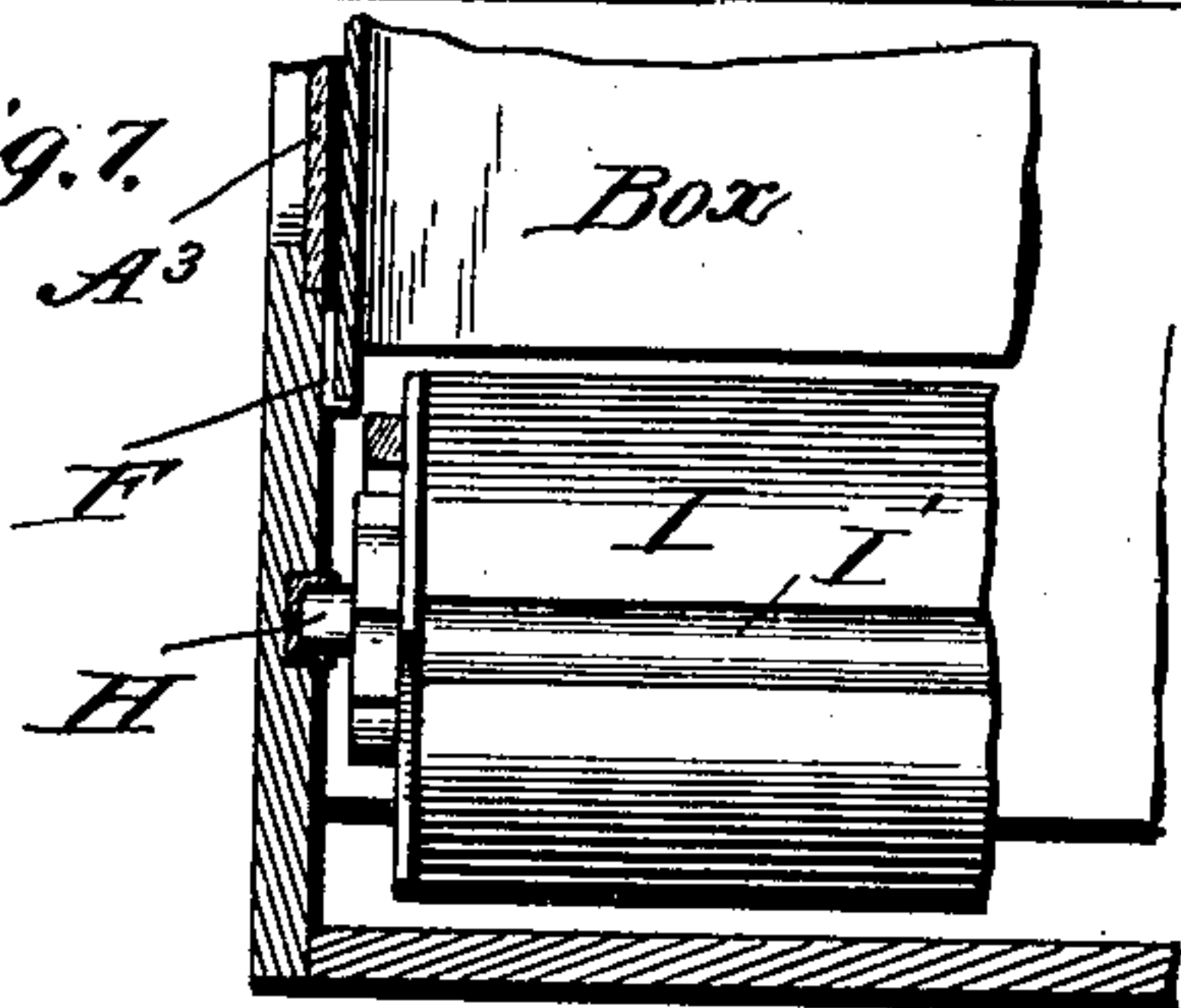
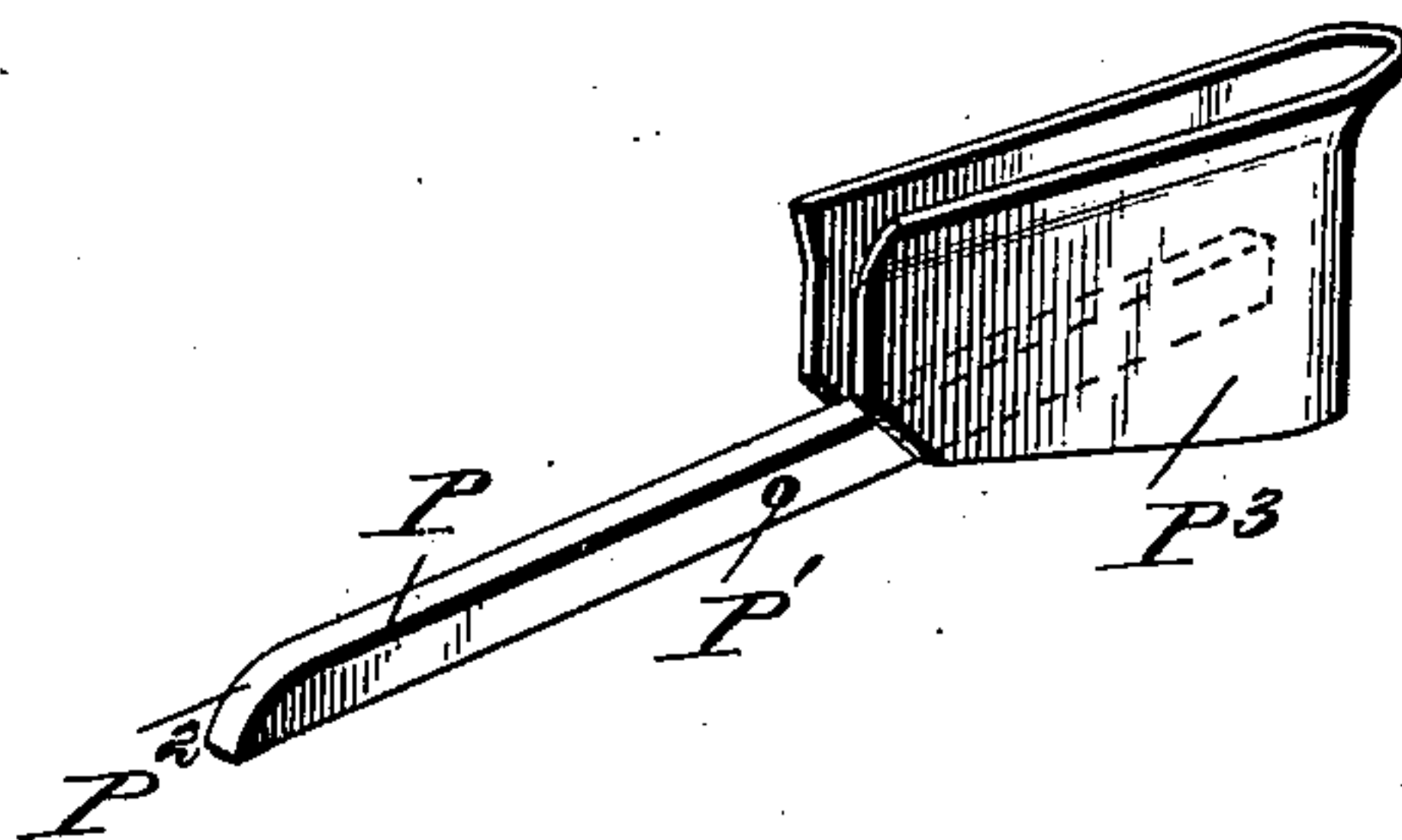


Fig. 8.



WITNESSES:

Bradford
Perry B. Turpin

INVENTOR

Cyrus W. Platt.

BY Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

CYRUS W. PLATT, OF WINDFALL, INDIANA, ASSIGNOR OF ONE-HALF TO
ELMER P. SCHELL, OF WINDFALL, INDIANA.

COIN-CONTROLLED VENDING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 742,732, dated October 27, 1903.

Application filed August 8, 1902. Serial No. 118,936. (No model.)

To all whom it may concern:

Be it known that I, CYRUS W. PLATT, a citizen of the United States, residing at Windfall, in the county of Tipton and State of Indiana, have made certain new and useful Improvements in Coin-Controlled Vending Apparatus, of which the following is a specification.

My invention is an improvement in coin-controlled vending apparatus, and while the present apparatus is especially designed for selling cigars the invention may be employed for vending other articles; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of my machine. Fig. 2 is a detail perspective view of the delivery-roller, the operating-shaft, and the coin-operating devices for controlling the movement of the operating-shaft. Fig. 3 is a cross-sectional view of the operating-shaft, showing the inner end of the delivery-roller in connection with such shaft. Fig. 4 is a vertical longitudinal section of the machine on about line 4 4 of Fig. 1. Fig. 5 is a cross-section of the machine on about line 5 5 of Fig. 4. Fig. 6 is a detail perspective view of the inside of the casing, taken from the rear side of the machine. Fig. 7 is a detail vertical section on about line 7 7 of Fig. 4, parts being omitted and others shown in section; and Fig. 8 is a detail view of the coin-lever.

In carrying out my invention I provide a casing for inclosing cigars and the several operating parts, which casing is shown as formed with the main section A and the step-section B at the lower front side of the section A. The section A has its front glazed at A', its top glazed at A², and one end at A³ to fully expose the revenue-stamps on the box of cigars and also to expose the cigars in said box, so the operator can see the cigars until they all are discharged. Thus even the last cigars sold from the box is exposed to the view of the purchaser prior to its purchase. Access to the interior of the casing is had through a door C, forming the back of the casing and hinged at one edge C' and secured at its other edge by a lock at C², so the proprietor of the machine can open the same whenever desired

to insert a fresh box of cigars, remove the coins, or for any other purpose desired.

The step-section B of the casing has its top B' provided at B² with an elevated portion 55 having a circuitous coin-passage B³, one side of which may be glazed at B⁴, as will be understood from Figs. 1 and 4, so the customer can observe the descent of the coin until it enters the body of the casing. This top B' of the step-section also supports a plate D, which is fixed to the under side of the top B' comparatively near the left-hand end of said top and projects thence into the section A and forms a rest for the lid of the cigar-box and aids in supporting said box within the casing in position to permit the proper operation of the delivery-roller upon the cigars in the said box. 60

It will be understood that in practice the cigar-box is opened in such manner as to leave the upper half of the lid fast to the box, only opening the lower half and exposing the internal-revenue stamp around the top part of the lid, showing cancellation and factory number, &c., as is desirable to effect a compliance with the requirements of the Internal Revenue Bureau. 75

For supporting the box I provide the plate D, on which the lid E' rests, with a plate F, secured to the inner side of the end of the casing and forming a rest for the lower end of the box at the side thereof opposite that to which the lid is hinged, a hook G, pivoted within the casing above the plate F and adapted to engage with the rear side of the box at its upper end, and the plate or other spring H², secured to the door C and bearing against the bottom of the box comparatively near to the lower end thereof. By this construction the box is supported wholly by the casing. No part of its weight rests upon the delivery-roller, nor does any part of the box operate upon the delivery-roller in such manner as to impede the operation of same in the manner desired. At the same time the lower end of the box is open, so the delivery-roller can operate therein and receive and deliver the cigars in the manner desired. The operating-shaft H journals at its opposite ends in the opposite ends of the casing and is provided at one end with a handle H', by which 100

it may be rocked, stops h and h' being provided to limit the movement of the handle in both directions. At one end the shaft H supports the delivery-roller I, which is provided in its periphery with pockets I' for the cigars or other goods. This roller I is loose on the shaft and is provided at one end with a ratchet-wheel J, whose teeth correspond in number and location with the pockets I' of the roller I and are arranged for engagement by a feed-pawl K', carried by a crank-arm K on the shaft H. It should be understood that the roller I is loose on the shaft H, so the said shaft may turn within the roller, the crank-arm K and the pawl K' being employed to impart the movement of the shaft H in one direction to the feed-roller to secure the delivery of the cigars by the latter. A friction-brake L operates upon the roller I to prevent any movement thereof except when desired, the brake in the construction shown consisting of a strip of heavy sole-leather secured at one end to the casing and bearing at its free end against the roller, so as to prevent the same from slipping or moving except when positively operated by the arm K and the pawl K', as will be understood from Figs. 2, 3, and 4. The shaft H has a movement, limited by the stops h and h' , through a sufficient arc to move the roller I one-quarter of a revolution, and thus bring its pockets successively from the position shown at the upper side of the roller in Fig. 4 to the right of the roller, as shown in the same figure. In the latter position the cigar will drop from the pocket and will be directed by a guide M out of a slot M' in front of the casing at the bottom thereof onto a small table M², provided to receive them. By thus rocking the shaft H the cigars may be successively discharged one by one from the box.

To control the operation of the shaft H and to permit its movement to discharge a cigar only when a coin is inserted, I provide the coin-operating mechanism (best shown in Figs. 2 and 4) for permitting the operation of the shaft H only when the coin is inserted. A retracting-spring N returns the shaft H to normal or starting-point, and said shaft is provided with a stop notch or shoulder O for engagement by the coin-lever P and with a projection portion O', which is preferably a spring-wire, as shown, to engage the lever P and tilt the same to cause it to discharge its coins. The lever P is pivoted at P' on a support Q, is arranged at its rear end P² to engage with the shoulder O of the shaft H and prevent the said shaft from turning forward when the parts are in the position shown in full lines, Fig. 4. This is the normal position of the parts. When a coin is inserted, it passes from the coin-chute B³ into a pocket P³ on the front end of the lever P. This pocket is open at its rear side P⁴ for the discharge of the coin, and the said pocket drops when a coin is inserted therein onto a rest-bar Q', supported within the casing. In op-

eration when the parts are in the position shown in full lines, Fig. 4 and in Fig. 2, and a coin is inserted in the chute B³ the coin will drop into the pocket P³, will overbalance the rear end of the lever, and will tilt the coin-lever from the position shown in full lines, Fig. 4, to the position indicated in dotted lines in the same figure. This movement throws the rear end P² of the lever out of engagement with the stop-shoulder O of the shaft H and permits the shaft to be swung by the operation of the handle H' between the stops h and h' . This movement of the shaft H by the arm K and pawl K' turns the delivery-roller I a quarter of a revolution and operates to discharge a cigar. As the delivery-roller approaches its discharge position the tripping projection O' on the shaft engages upon the end P² of the lever P and readjusts the said lever toward the position shown in full lines, Fig. 4, thus inclining the upper side of the lever downwardly toward its rear end, so that the coin, which is held edgewise in the pocket P³, will roll on the rearwardly-inclined upper edge of the lever out of the pocket into the bottom of the casing. By providing the lever-readjusting projection O' on the shaft H it will be noticed such shaft cannot be turned sufficiently far to secure the discharge of a cigar without effecting a discharge of the coin and the readjustment of the coin-lever P to position to engage with the stop-shoulder O and serve as a detent or stop for preventing the operation of the said shaft. In constructing the coin-pocket P³ on the lever P the same is flattened vertically to adapt it to properly receive a coin edgewise, so the latter will readily roll out of the said pocket when the lever is tilted by the operation of the tripping projection O', as before described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination substantially as herein described, of the delivery-roller provided with pockets for the merchandise and at one end with a ratchet-wheel whose teeth correspond with the said pockets, the operating-shaft supporting said delivery-roller and provided adjacent thereto with a crank-arm and with a feed-pawl carried by said crank-arm and engaging with the ratchet-wheel of the delivery-roller, whereby to operate the latter by a step-by-step movement, a friction-brake for holding said delivery-roller from movement, except when it is positively operated, a stop-shoulder on the operating-shaft, a coin-operated lever pivoted between its ends and arranged at its rear end to engage with the stop-shoulder of the operating-shaft and provided at its opposite or front end with a coin-pocket flattened vertically and open at its rear end whereby to discharge the coin therefrom, when the coin-lever is readjusted by the tripping projection, and the tripping projection on the operating-shaft for readjust-

ing said coin-lever to position to discharge the coin and for engagement with the stop-shoulder of the operating-lever, and a suitable casing and coin-chute, substantially as set forth.

2. The combination substantially as herein described, of the operating-shaft, the delivery device loose with respect to and arranged for step-by-step operation by the operating-shaft, a stop-shoulder on the operating-shaft, the coin-operated lever pivoted between its ends arranged at one end for engagement with the stop-shoulder of the operating-shaft, and provided at its other end with a pocket flattened vertically, whereby to hold a coin edgewise and open at its inner end whereby to discharge such coin in the readjusted position of the said lever, and a tripping projection on the shaft for engagement with the coin-operated lever for readjusting the latter, substantially as set forth.

3. The combination with the operating-shaft, and the delivery device loose with respect to the shaft and means for giving the delivery device a step-by-step movement by the rocking of the shaft of a coin-lever arranged at one end to control the rocking movement of the shaft and having at its other end a coin-pocket flattened vertically, whereby to hold a coin vertically edgewise and having a discharge-opening at one end

through which the coin may roll in the readjusted position of the lever, the said lever being arranged to be overbalanced from normal position by the weight of the coin, and means whereby the shaft may readjust the said lever, substantially as set forth.

4. The combination of the delivery-roller, provided with pockets for the merchandise and having at one end the ratchet-wheel whose teeth correspond with the said pockets, the operating-shaft supporting the said delivery-roller and provided adjacent thereto with a crank-arm and with a feed-pawl carried by the crank-arm and engaging the ratchet-wheel of the delivery-roller, the stop-shoulder and readjusting projection on the said shaft, the coin-lever pivoted between its ends and arranged at one end for engagement with the stop-shoulder and for operation by the tripping projection of the operating-shaft, and a coin-pocket on the other end of said coin-lever, said pocket being flattened vertically whereby to receive a coin edgewise and being open at its inner end to permit the coin to roll out of said end, substantially as set forth.

CYRUS W. PLATT.

Witnesses:

JAMES P. MOSER,
ALBERT WHISLER.