

No. 632,798.

Patented Sept. 12, 1899.

G. WILHELM.

COIN OPERATED CIGAR VENDING MACHINE.

(Application filed Oct. 6, 1898.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

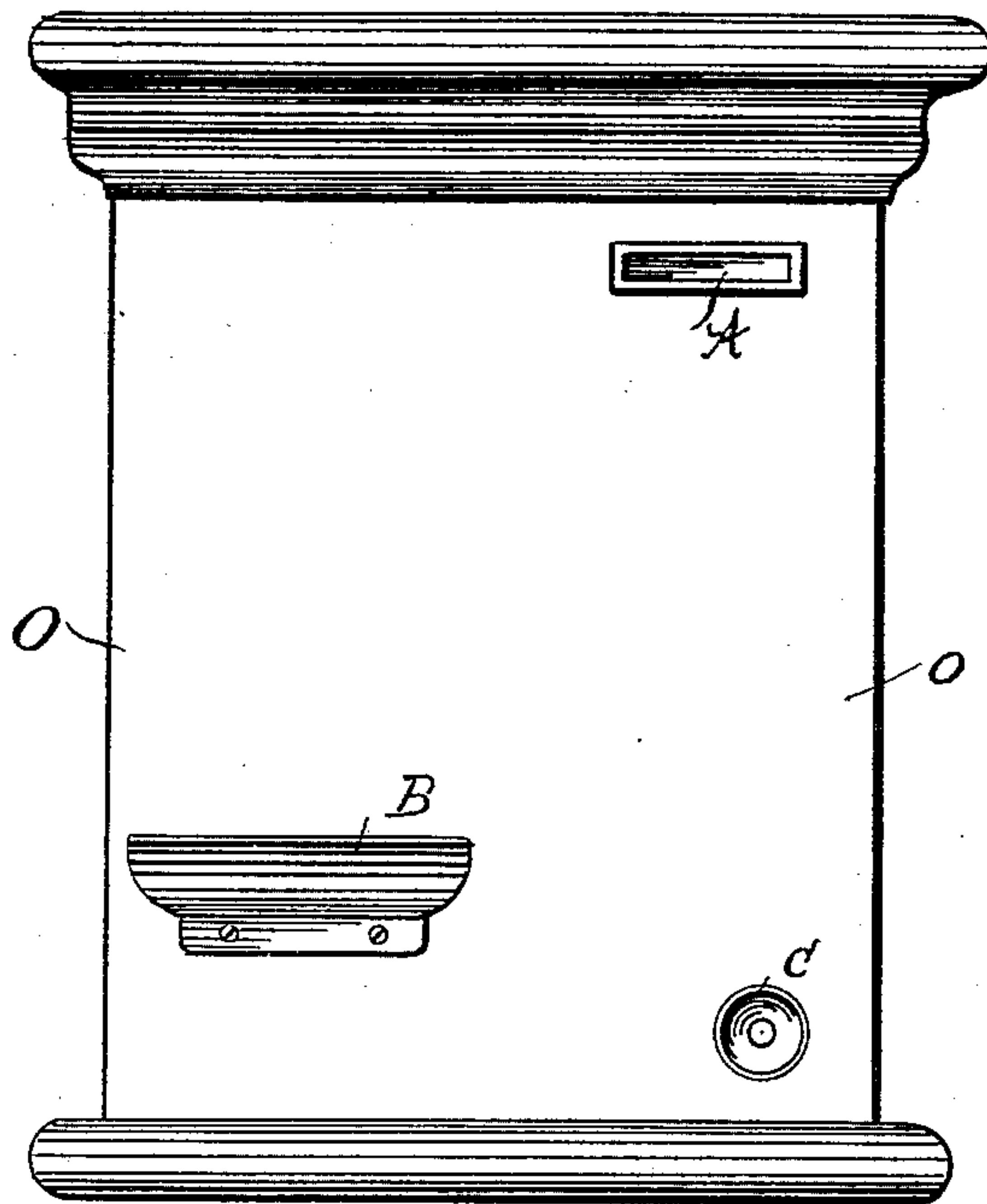
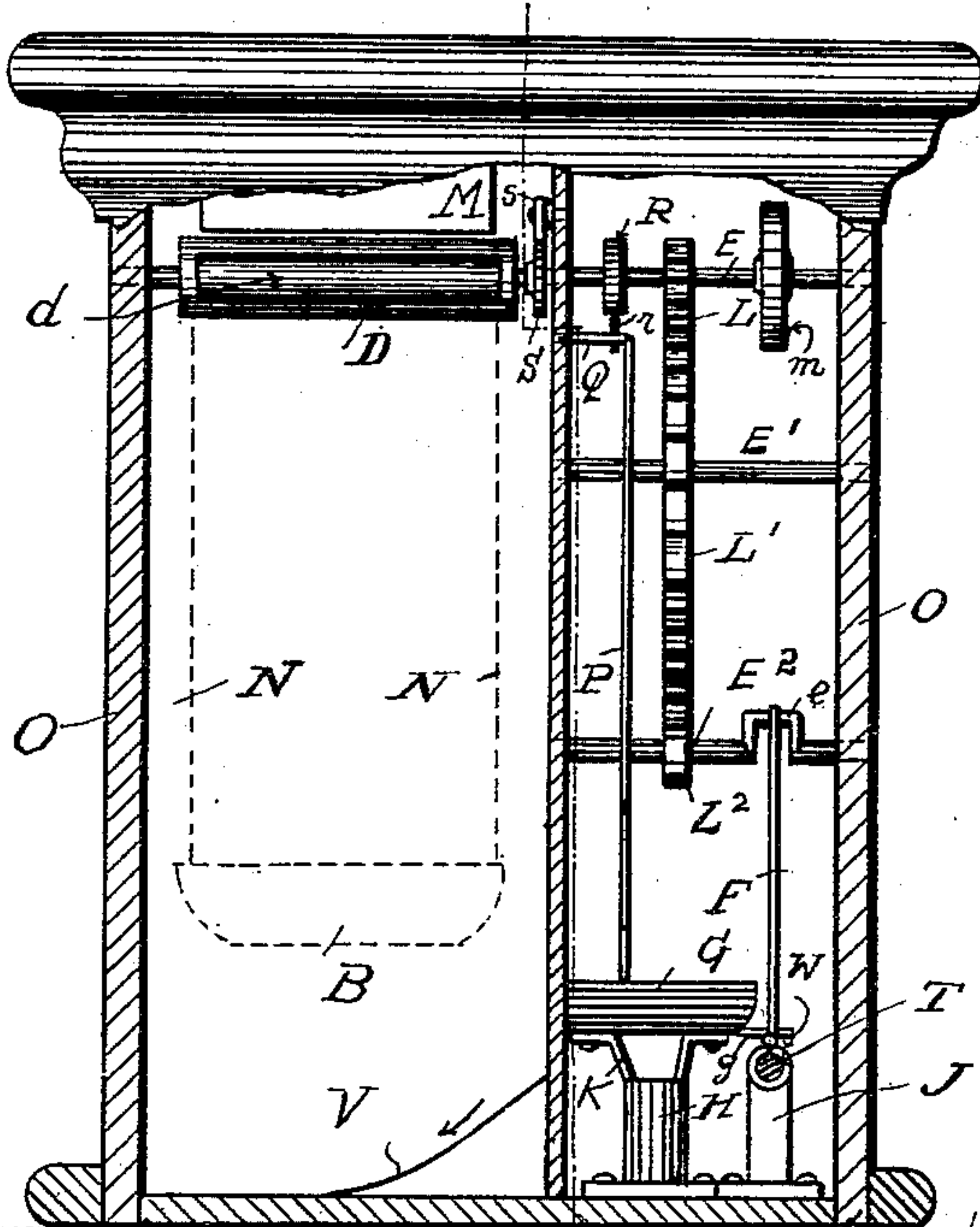


Fig. 2.



WITNESSES:

*Alfred Tschinkel*  
*Chas. L. Foulle*

INVENTOR

*George Wilhelm*  
BY  
*Philip L. Brown*  
ATTORNEY.

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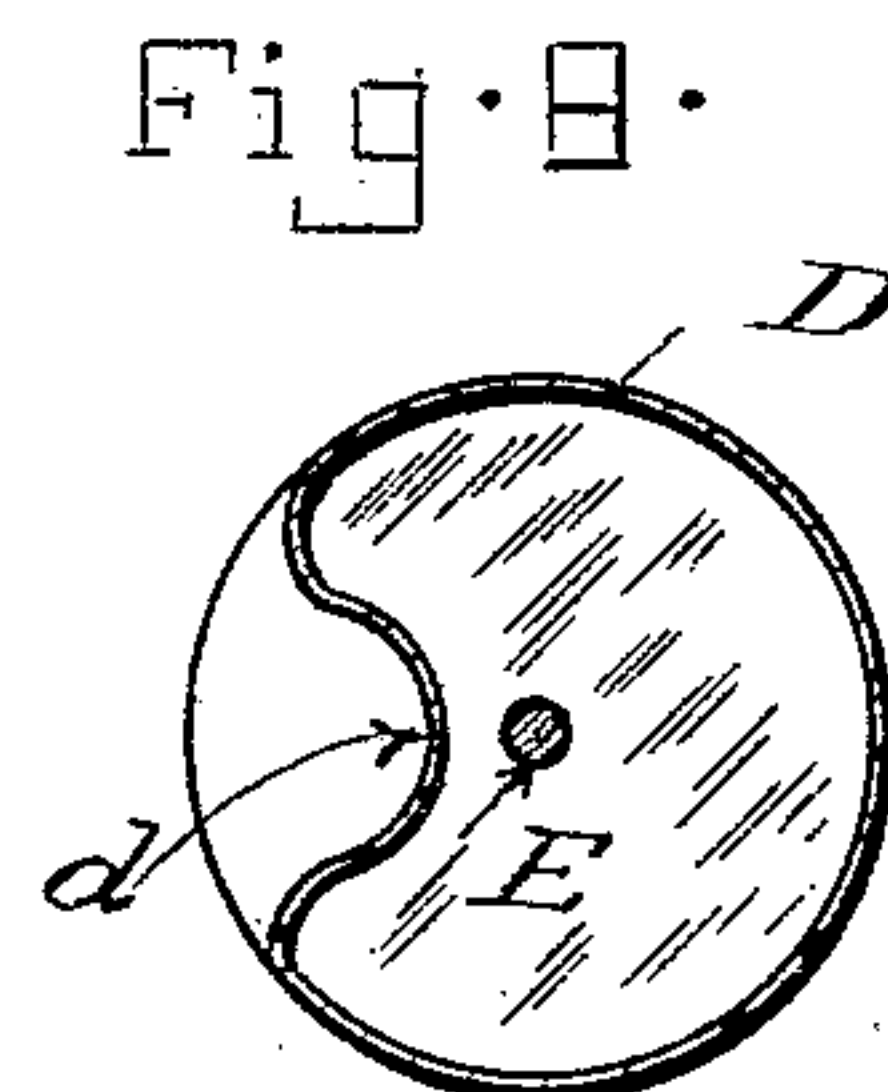
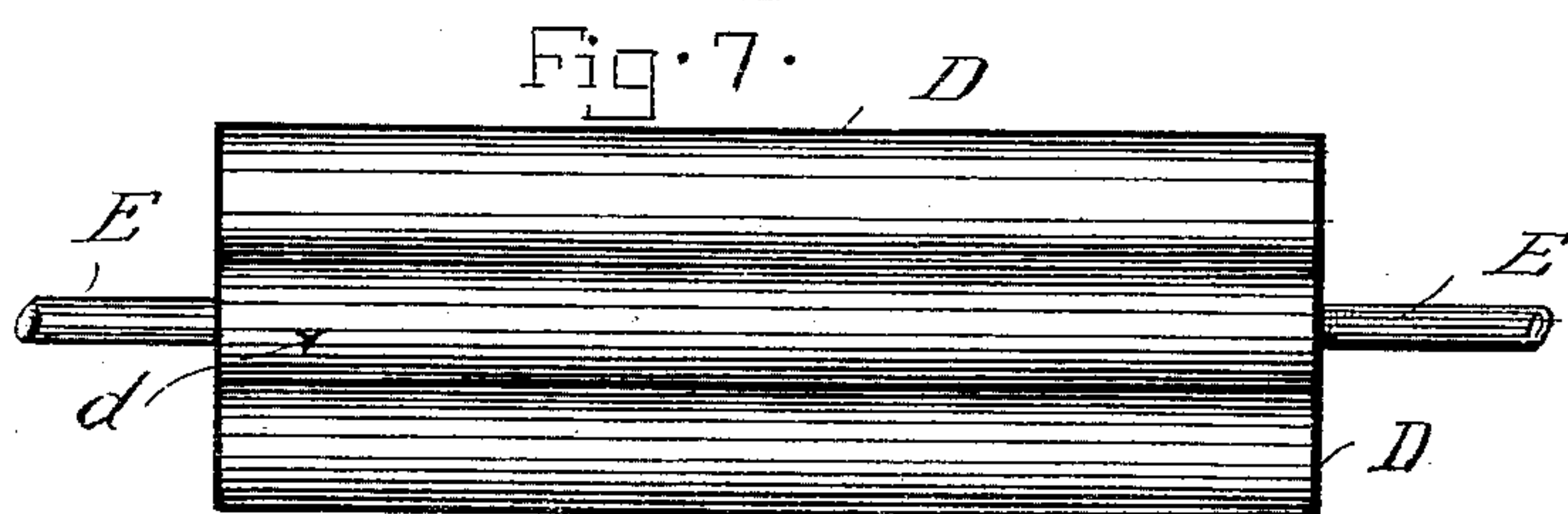
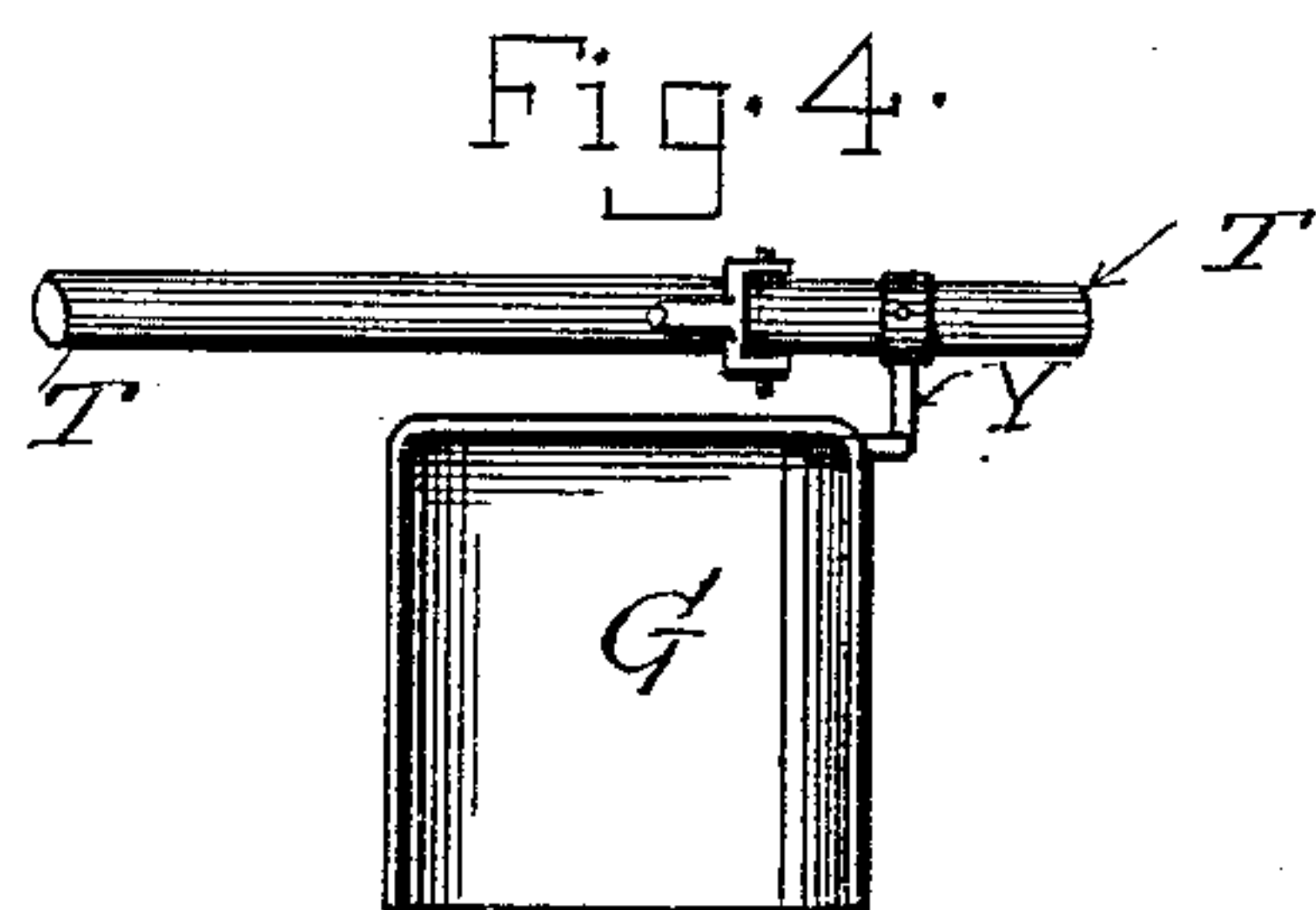
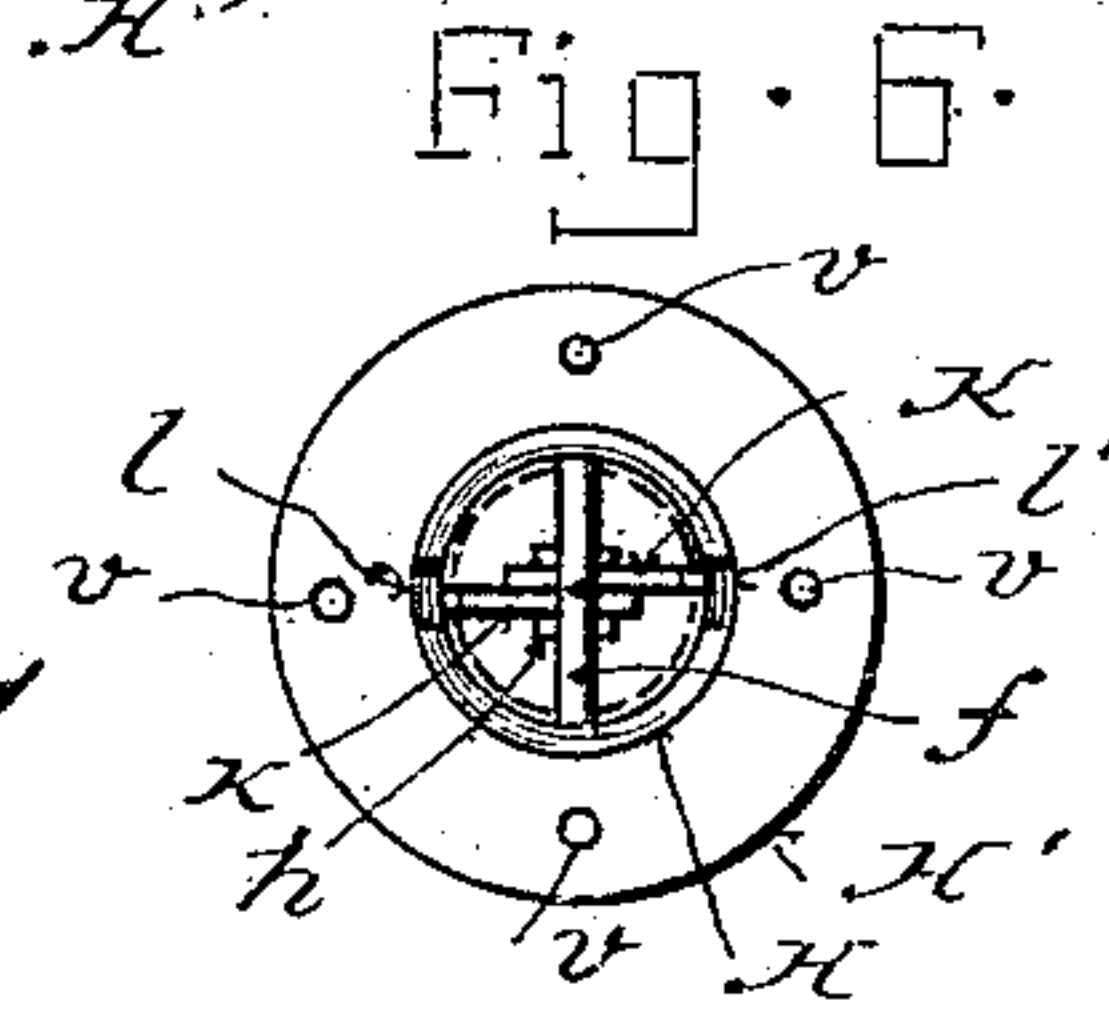
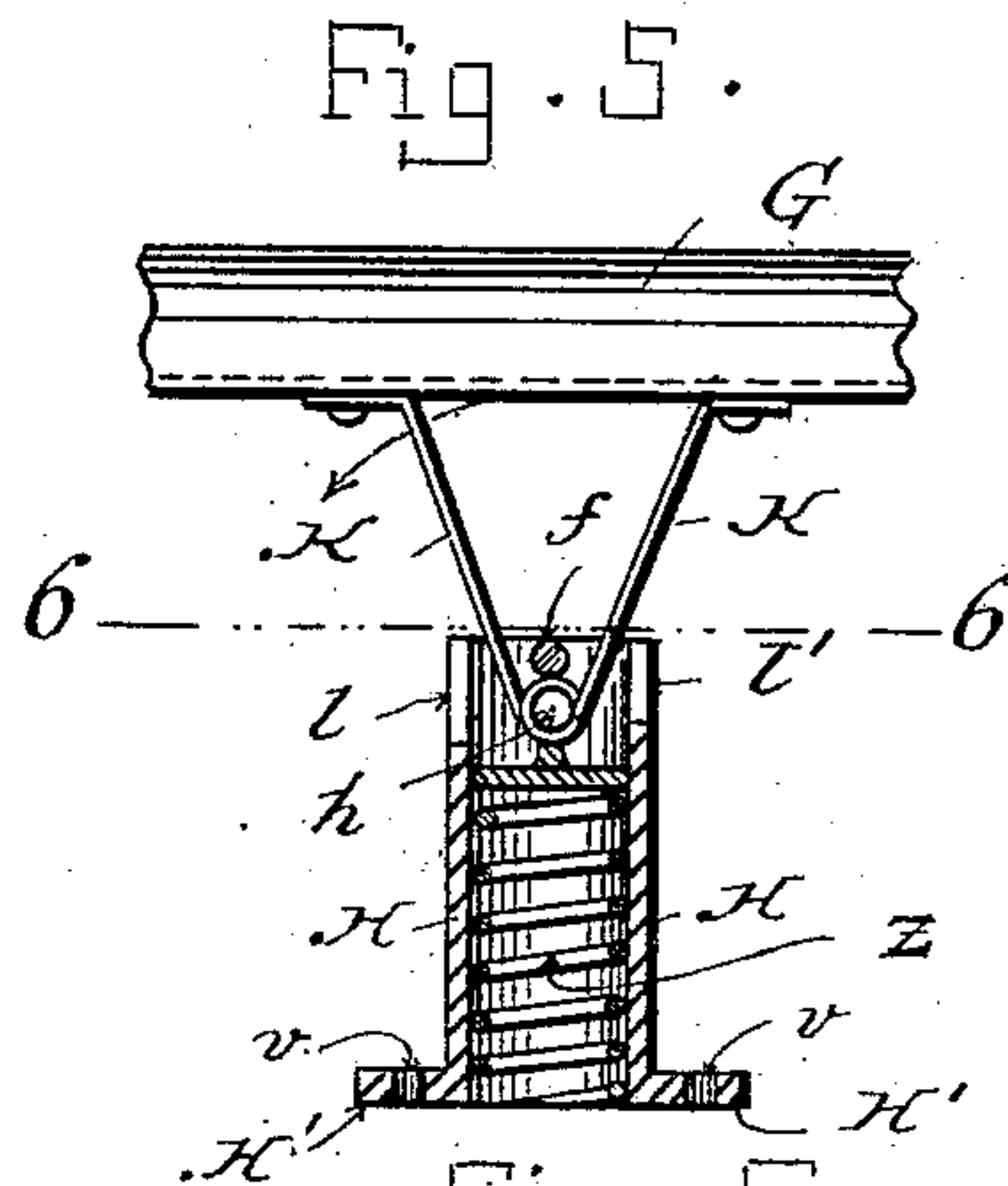
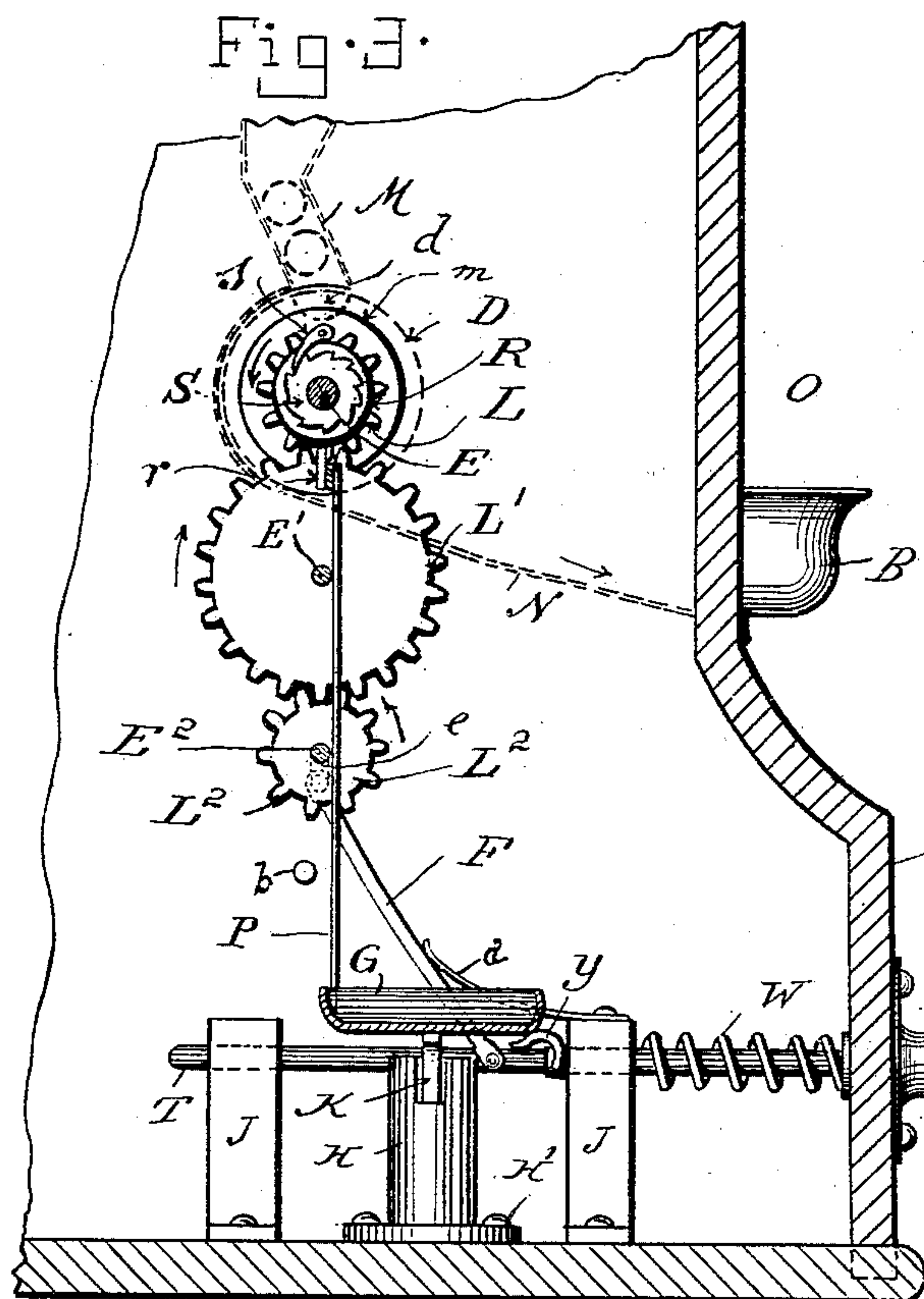
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2 Sheets—Sheet 2.



WITNESSES:  
*Alfred Tschinkel*  
*Charles B. Brown*

INVENTOR  
*George Wilhelm*  
 BY  
*Philip C. Brown*  
 ATTORNEY.



# UNITED STATES PATENT OFFICE.

GEORGE WILHELM, OF NEW YORK, N. Y.

## COIN-OPERATED CIGAR-VENDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 632,798, dated September 12, 1899.

Application filed October 6, 1898. Serial No. 692,866. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE WILHELM, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Coin-Operated Cigar-Vending Machines, of which the following is a specification.

My invention relates to coin-operated vending-machines; and the object of my improvement is to provide a coin-operated machine for vending cigars. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a front view of the case of the machine; Fig. 2, a longitudinal section of the mechanism; Fig. 3, a view of arrangement of working parts. The section through shafts  $E$   $E'$   $E^2$  passes to the left of wheel  $S$ , then crosses the partition and passes down to the right thereof, the mechanism to the left of wheel  $S$  being shown by dotted lines. Fig. 4, is a top view of scale; Fig. 5, a side view of same, partially shown in section; Fig. 6, a section in line 6 6 in Fig. 5; Fig. 7, a front view of drum or cylinder; Fig. 8, a cross-section of the same.

Similar letters refer to similar parts throughout the several views.

On shaft  $E$ , I secure a fly-wheel  $m$ , a cog-wheel  $L$ , a check-wheel  $R$ , provided with a projecting point  $r$ , and a ratchet-wheel  $S$ , and also the drum or cylinder  $D$ , provided with a depression or hollow  $d$  to receive the cigars from the supply-box  $M$ . I place this shaft  $E$  in position in the case or box  $O$  with suitable supports. Beneath the shaft  $E$ , I place the shaft  $E'$ , having attached to it the cog-wheel  $L'$ . Below the shaft  $E'$ , I place the shaft  $E^2$ , having a crank  $e$ . Attached to this shaft is the cog-wheel  $L^2$ . Under the shaft  $E^2$ , I place the scale. The platform of said scale  $G$  has connected with it rod  $P$ , having an arm  $Q$ , which acts on the pin  $r$  on the check-wheel  $R$ . The scale-platform  $G$  is supported by two arms  $K$   $K$ , which oscillate.

$Z$  is a spiral spring on which the platform  $G$  rests.

$J$  is a rod securing the spring  $Z$ .

$H$  is a cylinder which incloses the spring  $Z$ .

$h$  is the bolt which holds the two oscillating arms  $K$   $K$ .

The platform of the scale  $G$  is provided with an extension  $g$ , which is operated on by cam-arm  $Y$  on the push-rod  $T$ . I then place the push-rod  $T$  in position, connecting it with the crank  $e$ . This push-rod  $T$  is provided with a spiral spring  $W$  and has a cam-arm  $Y$ , which operates on the scale extension  $g$ .

The front of the case has a slot or opening  $A$  to receive the coin, and a sunken bowl-shaped metal piece  $C$ , with an opening for the push-rod  $T$ , and an oblong delivery-box  $B$  for delivering the cigars. Suitable chutes  $N$   $N$  are provided for carrying the cigars to the delivery-box  $B$ ; also, a guide-plate connects with the slot  $A$  and the platform  $G$  of the scale.

The ratchet-wheel  $S$  is controlled by a catch  $s$ , which prevents the machine from running backward.

To avoid any liability of the link  $F$  coming to a dead-center, I attach to the casing over the push-rod  $T$  at the right a leaf-spring  $a$ , adapted to throw the link  $F$  past the dead-center below shaft  $E^2$ , and a pin  $b$  at the left, suitably secured to a support to throw said link past the dead-center above the shaft  $E^2$ .

From the above description it will be seen that when a coin of the right weight is put in the slot  $A$  it follows the guide-plate  $X$  to the scale-platform  $G$  and causes it to tilt or oscillate sufficiently to move the arm  $Q$  and release the check-wheel  $R$ . The rod  $T$  being pushed inward, the cam-arm  $Y$  comes in contact with the extension  $g$  under the platform  $G$ , raising it so that the coin slides into the coin-receptacle. The rod  $T$ , acting on the crank  $e$ , causes the cog-wheel  $L^2$  to revolve. This cog-wheel  $L^2$  engages and operates the cog-wheel  $L'$ , which in turn engages and operates the cog-wheel  $L$ , which operates shaft  $E$  and causes the drum  $D$  to make a little more than a half-revolution and deposit the cigar which is in the hollow receptacle  $d$  into the chute  $N$   $N$ . The scale is adjusted to tilt only when a coin of the right weight is received on the platform  $G$ . I do not confine myself to one form or size of case, and, if desired, can duplicate and triplicate the mechanism in one case without departing from the spirit of my invention. When the rod  $T$  is released, the drum  $D$  completes the revolution and is again in position to receive another cigar from the supply-box  $M$ .

I am aware that coin-operated vending-machines have been made; but this I do not claim broadly.

What I do claim as my invention in coin-operated cigar-vending machines, and desire Letters Patent for, is—

The combination of the scale with check-rod P having an arm Q, the push-rod T with link F, crank *e* and shaft E<sup>2</sup>, the cog-wheel  
10 L<sup>2</sup>, cog-wheel L' and cog-wheel L, the shaft E', shaft E, check-wheel R, ratchet-wheel S,

drum D, cigar-supply box M, delivery-chute N, N, delivery-box B, and the casing O, provided with openings A and B.

Signed at New York, in the county of New York and State of New York, this 1st day of October, A. D. 1898.

GEORGE WILHELM.

Witnesses:

HERMAN SCHULZ,  
J. H. POWELL.