

(No Model.)

2 Sheets—Sheet 1.

H. A. MANLEY.
COIN CONTROLLED ADVERTISING MACHINE.

No. 545,632.

Patented Sept. 3, 1895.

Fig. 1.

11

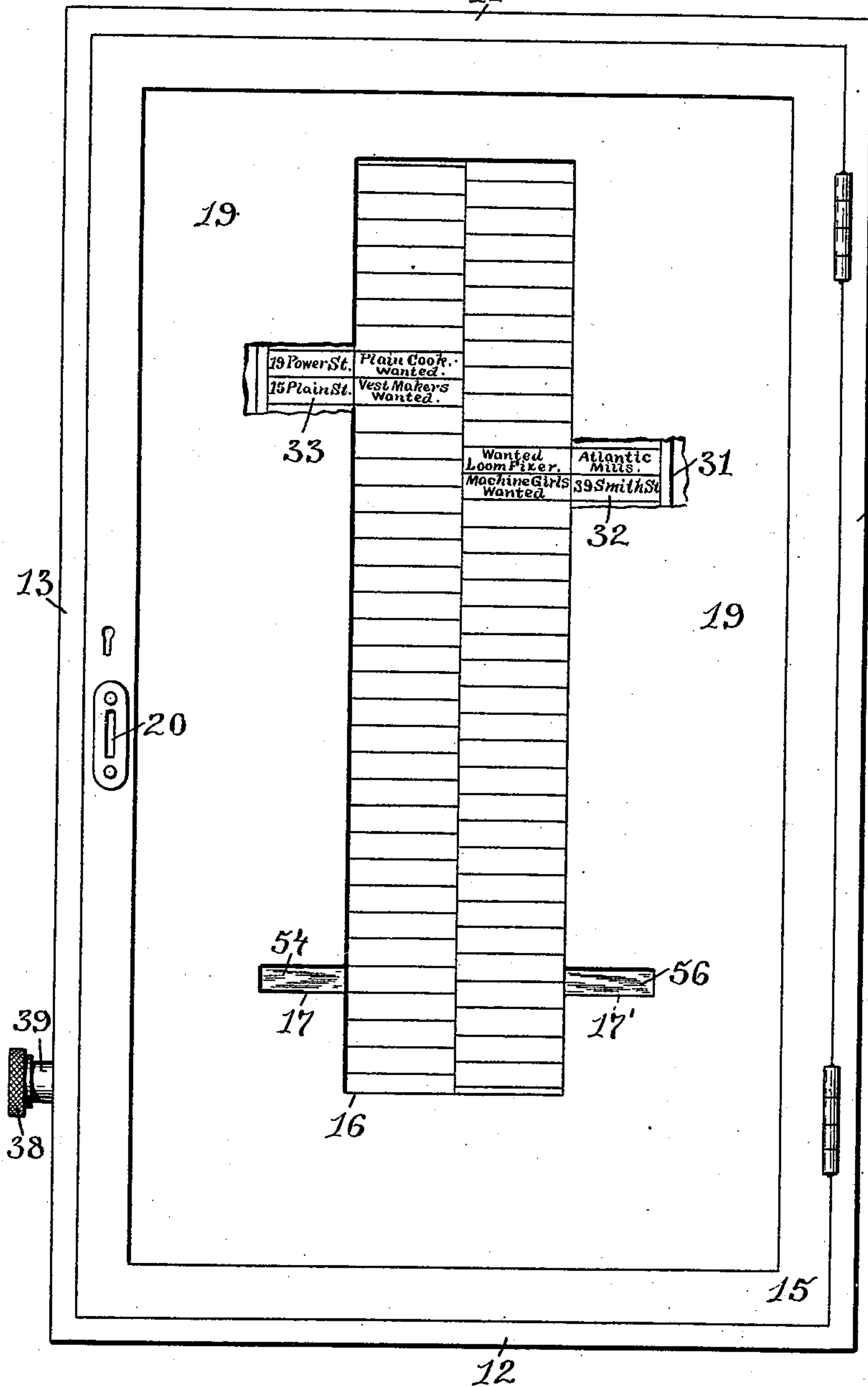
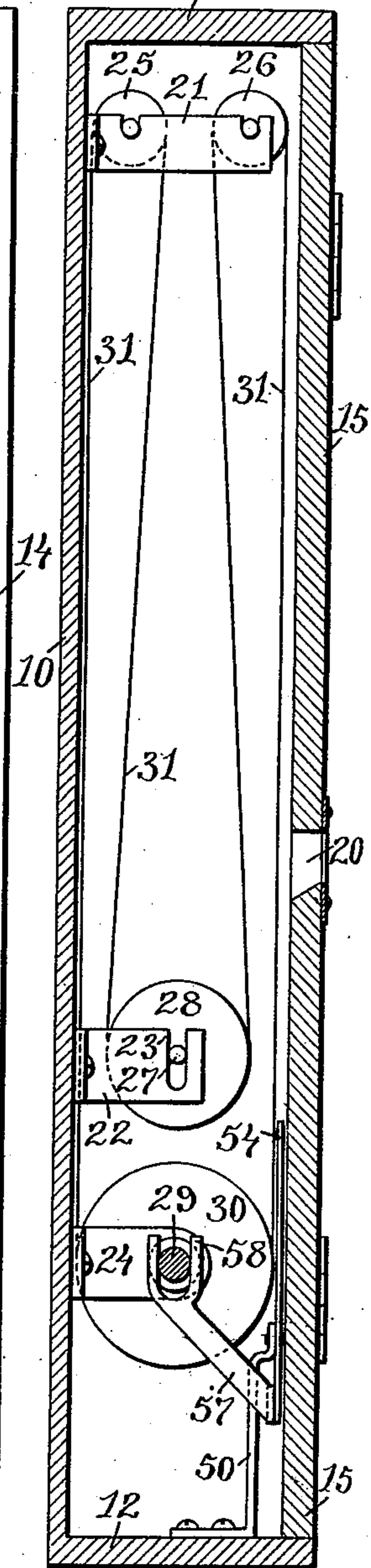


Fig. 2.

11



WITNESSES:

M. L. Mahoney.
Char. H. Luther Jr.

INVENTOR:

Horace A. Manley
by
Henry J. Miller
Atty.

(No Model.)

2 Sheets—Sheet 2.

H. A. MANLEY.
COIN CONTROLLED ADVERTISING MACHINE.

No. 545,632.

Patented Sept. 3, 1895.

Fig. 3.

Fig. 4.

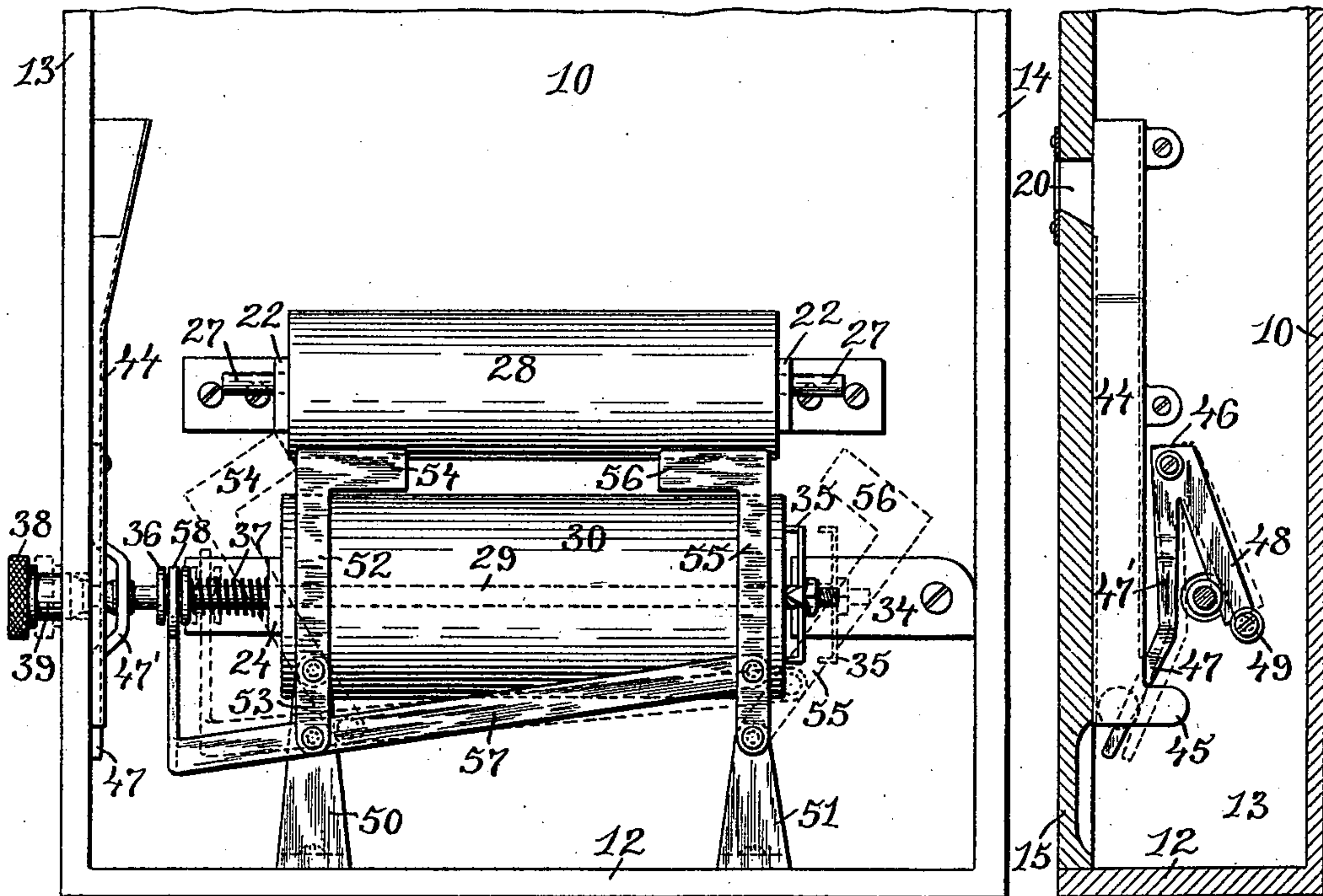


Fig. 5.

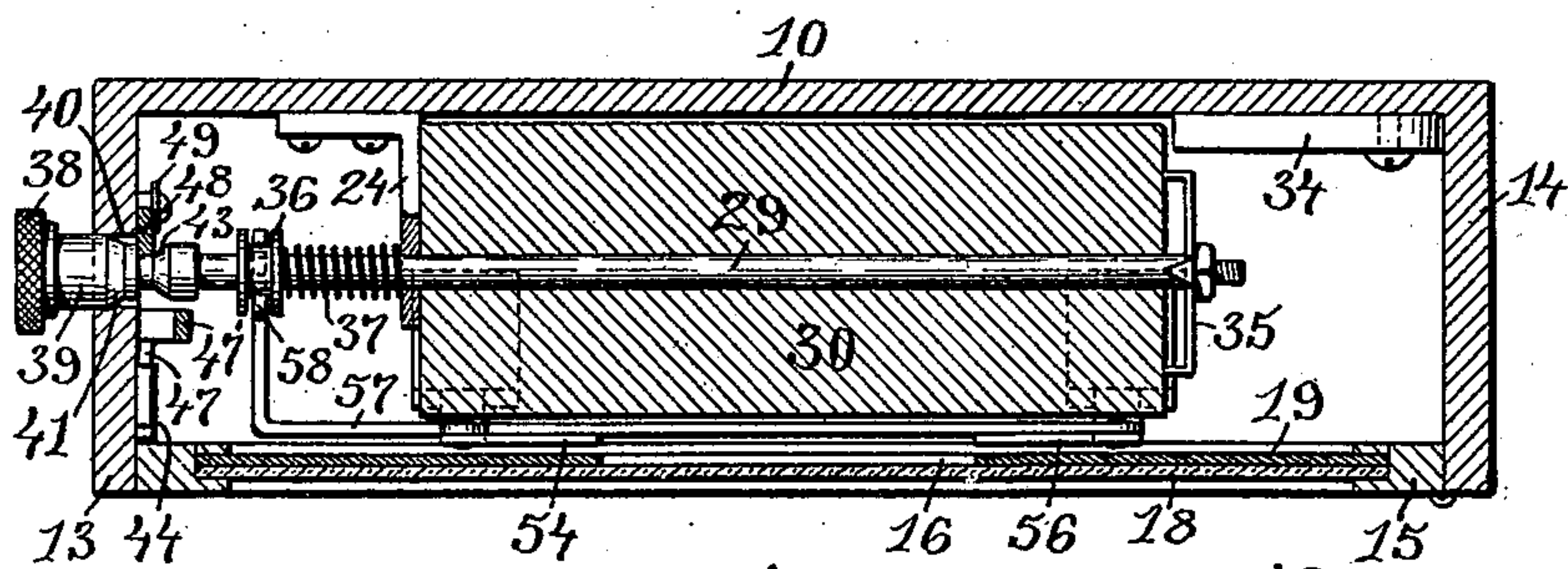
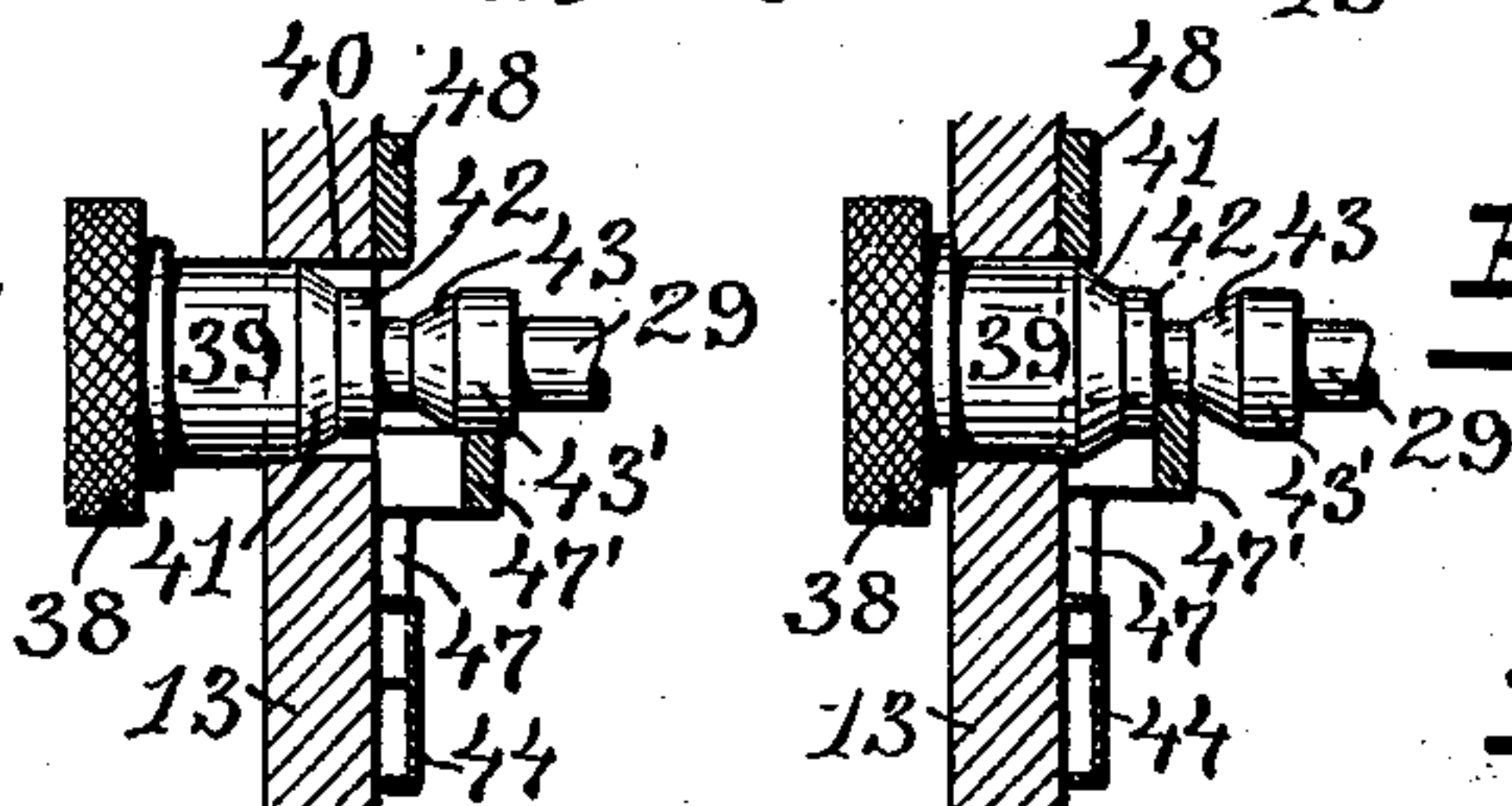


Fig. 6.

Fig. 7.



WITNESSES:

M. L. Mahoney.
Chas. H. Luther Jr.

INVENTOR:

Horace A. Manley
by
Henry J. Miller
att'y.

UNITED STATES PATENT OFFICE.

HORACE A. MANLEY, OF BOSTON, ASSIGNOR TO WILLIAM N. OSGOOD, OF
MALDEN, MASSACHUSETTS.

COIN-CONTROLLED ADVERTISING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 545,632, dated September 3, 1895.

Application filed December 14, 1893. Serial No. 493,632. (No model.)

To all whom it may concern:

Be it known that I, HORACE A. MANLEY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Coin-Controlled Advertising-Machines; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to coin-controlled advertising-machines.

The object of the invention is to so construct a coin-controlled advertising-machine that a large number of advertisements may be displayed therein.

Another object of the invention is to so construct an advertising-machine, provided with a belt on which the advertisements and the addresses of the advertisers are displayed in several columns, that the addresses in either column may be exposed to view by the operation of a single coin-controlled mechanism.

Another object is to so construct a machine of this nature, in which a roll or cylinder is used for advancing the advertisements to the proper location, that the operation of the exposing mechanism will automatically release the roll to prevent the rotation of the same by the usual means.

Another object of the invention is to provide a new and useful coin-controlled advertising-machine which may be more readily operated than those heretofore constructed to adjust the advertisements in position for disclosure, and which is durable in construction.

Still another object of the invention is to provide a new and useful coin-operated locking device.

The invention consists in the peculiar construction of the door or protective covering, having a central opening and lateral slots extending from the opening, in combination with coin-controlled shutters for closing the slots.

The invention also consists in the shutters for closing the name-slots and in the mechanism for operating these shutters.

The invention still further consists in the coin-controlled locking device.

The invention also consists in the means for operating the display-belt and the combi-

nation therewith of an engaging device adapted to be automatically operated.

The invention also consists in the combination of these parts and such others as may hereinafter be described to form a complete and operative device.

Figure 1 represents a front elevation of the improved advertising-machine, parts of the front being broken away to show the arrangement of the addresses on the display-belt. Fig. 2 represents a vertical sectional view of the same. Fig. 3 represents a front elevation of the mechanism in the lower part of the case, Fig. 4 being a view of the coin-slot and the coin-controlled locking-lever, with a sectional view of the operating-shaft. Fig. 5 represents a cross-sectional view of the device taken on a line with the operating-shaft. Fig. 6 represents details of the coin-controlled lever and the operating-shaft in the unlocked position before it has been pushed inward. Fig. 7 represents a view of the same, the lever being unlocked and the shaft pushed inward.

Similar numbers of reference designate corresponding parts throughout.

In the drawings, 10 indicates the back of the casing in which the mechanism is contained. This case has also a top 11, a bottom 12, and sides 13 and 14. The front of the case is closed with a door or cover 15, hinged or otherwise secured to the casing and furnished with a central opening 16 and laterally-extending slots 17 and 17'. This opening and the slots are covered by a plate of transparent material 18 to protect the contents of the case, while the advertisements to be presented to view, the central opening, and the slots are shown in the drawings as cut through a plate of non-transparent material 19; but it is evident that a coat of paint or a sheet of colored paper may be applied to the inner side of the plate 18, leaving the central opening and the slots unpainted, so that reading-matter may be viewed through these uncovered portions. It is also obvious that the slots 17 and 17' need not be connected directly with the central opening.

Through the side frame of the door is formed the coin-slot 20. This, however, may be formed in the side 13 of the case.

To the back 10 of the case are secured the upper brackets 21 21, each having double bearings, the intermediate brackets 22 22, having bearing-slots 23, and the lower bracket 24, 5 having a transverse perforation to serve as a bearing for the operating-shaft. In the bearings of the upper brackets are journaled the shafts of the upper small parallel rollers 25 and 26. In the slots 23 of the intermediate 10 brackets on the ends of the shaft 27 on which the tension-roll 28 is mounted are guides, and journaled in the perforation in the bracket 24 is the operating-shaft 29. This shaft is also reciprocally movable in the bearing, and 15 loosely mounted on the shaft is the actuating roller or cylinder 30.

On the system of rollers above described is mounted the continuous band or belt 31. This belt passes under the actuating-roller 20 30, then up at each side and over the rollers 25 and 26, between which it forms a depending loop in which the tension-roll 28 is supported. The face of the belt is divided into columns of spaces 32 and 33. In the drawings four columns are shown, the spaces at 25 one side of the belt alternating with those of the other side, so that when one of the spaces 32 is brought opposite the slot 17' the line between the spaces 33 will be brought opposite 30 the slot or opening 17. Advertisements are displayed on the central columns of the belts and the addresses of the advertisers are placed in the spaces 32 and 33, each address being on a line with its advertisement and 35 near the middle of the space. When the belt is placed in position on the rollers, the pivoted stop 34 is turned down, as is shown in Fig. 3 of the drawings, to prevent the belt from working off the actuating-roller.

40 The operating-shaft 29 has at its inner end an engaging device 35, having prongs or points for engaging the end of the actuating-roller. Outside the bracket 24 it is provided with a grooved collar 36, rigidly secured to the shaft, 45 and between this collar and the bracket 24 is located the coiled spring 37, which bears against the collar and the bracket and tends to force the shaft outward, thus bringing the device 35 into engagement with the end of 50 the roller. The outer end of the operating-shaft is provided with a thumb-nut 38, adjacent to which the diameter of the shaft is considerably enlarged, as at 39, and is journaled in the perforation 40 in the side 13 of 55 the case. From this enlarged portion the shaft is gradually reduced in diameter as it extends inward to form the tapering bearing 41, ending in the abrupt shoulder 42 at right angles with the surface of the shaft. For a 60 slight distance from this shoulder the shaft extends in its original contracted diameter, and then is enlarged to form the tapering guide-bearing 43, the enlarged portion 43' of which has parallel sides.

65 To the sides 13 of the case and partially covering the inner end of the coin-slot 20 is secured the coin-chute 44, the lower portion

of which is open at the end and for a short distance along one edge, having also a guide-plate 45. 70

The locking-lever 46, pivotally secured at the upper end to the side 13, has a forwardly-extending arm 47, the lower end of which is movable within the lower end of the coin-chute. The central portion 47' is bent out of 75 the plane of the main portion, so as to rest against the portion 43' of the shaft 29 when this arm of the lever is thrown backward by the weight of a coin in the chute and before the operating-shaft has been pushed inward 80 to prevent the coin from slipping out at the lower end of the chute, and the lever locked before the shaft has been moved inward. The locking-lever has also the depending counterweight and locking member 48, which 85 moves in unison with the arm 47, and when moved forward engages the shoulder 42 of the operating-shaft and prevents the inward reciprocation of the shaft. The end of this member 48 is movable under the guide 49, 90 secured to the side 13 of the case and adapted to resist a portion of the strain when an attempt is made to push the shaft 29 inward without unlocking the lever.

To the bottom 12 of the case or to any 95 other suitable portion thereof are secured the brackets 50 and 51. The bracket 50 is slightly higher than that marked 51. To the upper end of the bracket 50 is pivoted the arm 52, having a portion 53 depending below 100 the pivot, and at its upper end a shutter 54, adapted to close the opening or transparent portion 17 and to hide from view any address which is located back of this shutter. To the bracket 51 is pivoted the arm 55, having the 105 shutter 56 at its upper end, which is adapted to close the opening or slot 17'. The lower end of the depending portion 53 of the arm 52 and the main portion of the arm 55 above its pivot are both pivotally secured to the 110 connecting-bar 57. This bar extends from the bracket 50 toward the side 13 of the case and is bent backward at right angles to the main portion, being furnished at its end with the U-shaped portion 58, which embraces the 115 grooved portion of the collar 36.

When the device is in its normal condition and it is desired to ascertain the address of the certain advertiser, the knob or thumb-screw 38 is turned until the advertisement is 120 brought directly opposite either of the slots or openings 17 or 17', depending on which column the same is displayed in. A coin is now introduced through the coin-slot 20 into the coin-chute, and passing down the same 125 presses back the locking-lever until it rests in the position shown in Fig. 6. The bent portion 47' of the arm 47 will now bear against the enlarged portion 43' of the operating-shaft, the coin being still retained with- 130 in the chute, while the locking member 48 will be moved backward from its engagement with the shoulder 42. The thumb-nut is now pressed inward. The edge of the locking-

member now rides outward over the tapering enlargement 41. At the same time the bent portion 47 moves over the tapering portion 43 until it assumes the position shown in Fig.

7, and the coin is free to drop from the chute. During the inward movement of the shaft 29 the engaging device 35 has been released from the roll 30, and any turning of this shaft will not act to rotate the roll and to change the location of the advertisements. While the shaft 29 is being pushed inward the grooved collar 36 carries with it the U-shaped end of the connecting bar, and the arms 52 and 55 are moved by this bar in opposite directions, throwing the shutters or plates 54 and 56 backward and disclosing to view such matter as is on the belt 31, back of the slots or openings 17 and 17'. From the arrangement of the addresses and advertisements on the belt, however, an address will appear to view in only one of the slots. After the address has been copied or noted the thumb-nut 38 is released and the spring 37 tends to throw the shaft 29 back to its original position, whereupon the counterweight member 48 acts to again engage the shoulder 42 of the shaft and to throw the arm 47 to a position to intercept any coin dropping down the coin-chute.

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

1. In an advertising-machine, the combination with a case, a mechanism carrying advertisements located therein, a door or cover having a central opening and a laterally-extending slot or opening at the side of said central opening, and a transparent plate covering said openings, of a pivoted shutter for closing the lateral slot, a rotatable reciprocal shaft, means for connecting the shutter and the shaft, a coin-controlled device for locking the shaft from reciprocation, and an engaging device on the shaft for engaging the advertisement carrying mechanism.

2. In a coin-controlled advertising-machine, the combination with a case, a system of rollers journaled therein, and a band carried by the rollers, of a reciprocal shaft on which one of the rollers is journaled, and an engaging device carried by the shaft and adapted to be engaged with and released from the roller by the reciprocation of the shaft.

3. In a coin-controlled advertising-device, the combination with a case, a system of rollers journaled therein, a band carried by the rollers, and a door having an opening through which a portion of the band may be viewed, of a reciprocal shaft, mounted in bearings, on which one of the rollers is journaled, a shutter movably supported within the case for closing the opening in the door, and a device connecting the shutter with the shaft whereby the reciprocation of the shaft tends to operate the shutter.

4. In an advertising-machine, the combination with an incased roll, a reciprocal shaft on which the roll is journaled, and an engaging-

device carried by the shaft for engaging the roll, of a plurality of shutters supported within the case, and mechanism connecting the shutters with said shaft whereby the shutters are operated simultaneously by the reciprocation of the same.

5. In a coin-controlled advertising-machine, the combination with a case, a reciprocal shaft rotatably mounted therein and extending through a perforation in the side of the same, an actuating-roller journaled on the shaft within the case, an engaging-device carried by the shaft for engaging the roller, and a coin-controlled locking device for locking the shaft against reciprocation, of a series of shutters located within the case and connected with the shaft, as described.

6. In a coin-controlled advertising-machine, the combination with a case, a mechanism contained therein and adapted to be operated by a rotatable reciprocal shaft, of the shaft reciprocally and rotatably mounted therein having one end extending through one side of the case, and furnished with a conical enlargement tapering inward, an engaging-shoulder adjacent to such enlargement, and an outwardly tapering enlargement removed from said shoulder, on the shaft, and a coin-controlled lever adapted to engage said shoulder to prevent the reciprocation of the shaft and having an arm adapted to bear on the second enlargement when operated by a coin, as described.

7. In a coin-controlled mechanism, the combination with a shaft rotatably and reciprocally mounted in the case and having an engaging shoulder, of a coin-operated lever supported transversely to the direction of the shaft and having a counterweighted locking-arm to engage the shoulder on the shaft, and a forwardly-extending arm adapted to be acted on by the coin, as described.

8. In a coin-controlled advertising-machine, the combination with a case, a shaft rotatably and reciprocally mounted therein and having an engaging-device, of an actuating-cylinder journaled on the shaft and a stop for preventing the reciprocation of the cylinder away from the engaging-device.

9. In a coin-controlled advertising-machine, the combination with a case, and the shaft 29 rotatably and reciprocally mounted therein and having the enlargement 39, the tapering portion 41, the shoulder 42 and the oppositely-tapering enlargement 43 separated from said shoulder by a portion of the shaft, of the lever 46 having the arm 47 furnished with the bent portion 47', and the counter-weighted locking-arm 48 adapted to engage the shoulder 42 of the shaft, and means for directing a coin to the arm 47, as described.

10. In a coin-controlled advertising-machine, the combination with a case, and the shaft 29 journaled therein and having the enlargement 39, the tapering portion 41, the shoulder 42 and the oppositely tapering enlargement 43 separated from the shoulder 42

by a portion of the shaft, of a locking-device contained within said case adapted to engage the shoulder 42 and when unlocked to be operated by said tapering enlargements 41 and 5 43, as described.

11. In a coin-controlled device, the combination with a case having sight openings in one side thereof, of the brackets 50 and 51 contained within the case, the arm 52 having 10 the pendent extension 53 and the shutter 54 pivoted to the bracket 50, the arm 55 having

the shutter 56 pivoted to the bracket 51, the bar 57 pivoted to the lower end of the extension 53 and to the main portion of the arm 55, and means for reciprocating said bar 57 to 15 operate the shutters, as described.

In witness whereof I have hereunto set my hand.

HORACE A. MANLEY.

Witnesses:

WILLIAM N. AMBLER,
WINFIELD S. SLOCUM.