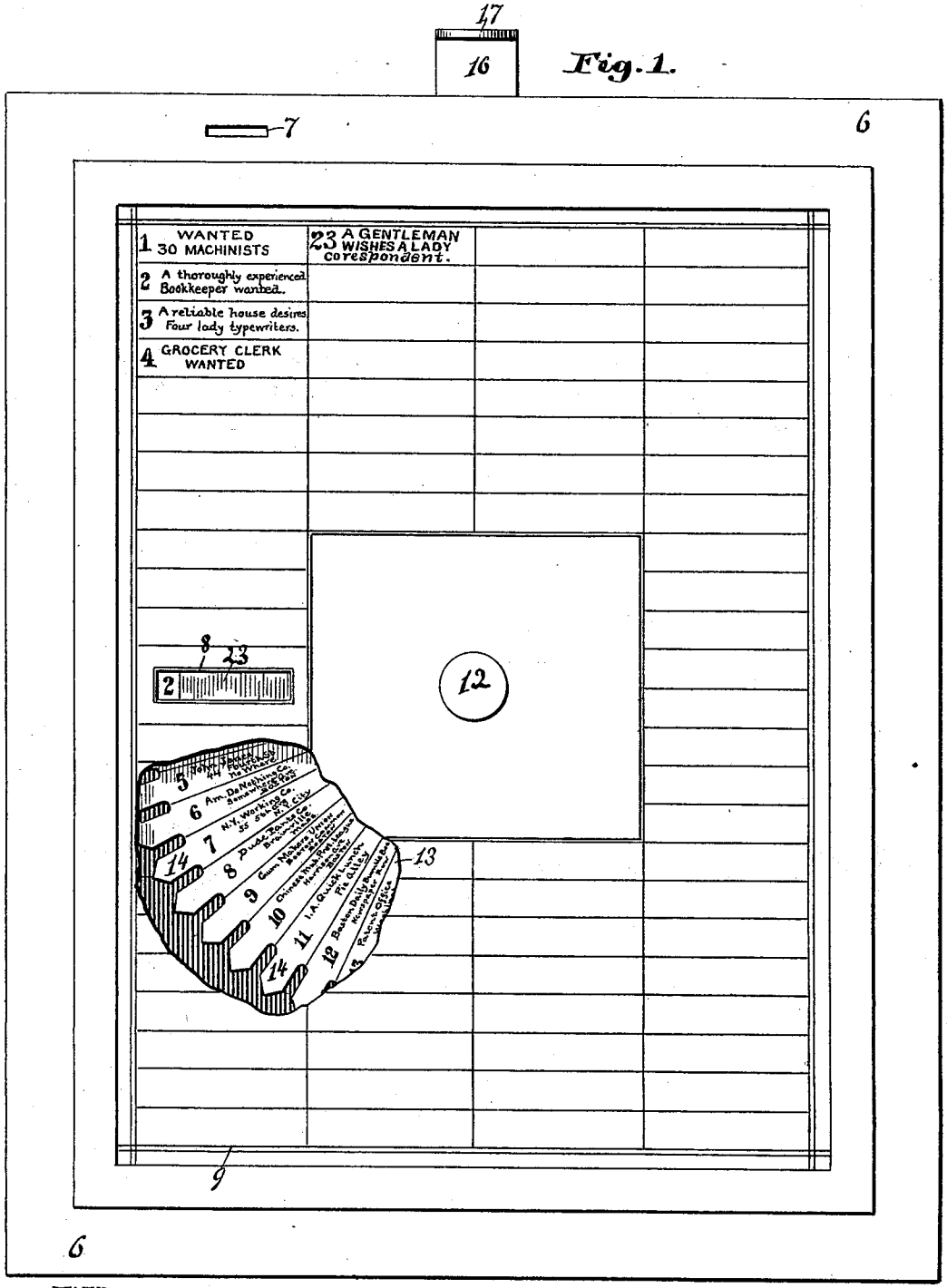
(No Model.) 2 Sheets—Sheet 1.

# H. A. MANLEY.

## COIN CONTROLLED MECHANISM.

No. 520,931. Patented June 5, 1894.

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(No Model.) 2 Sheets—Sheet 2.

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## COIN CONTROLLED MECHANISM.

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**Fig. 2.**

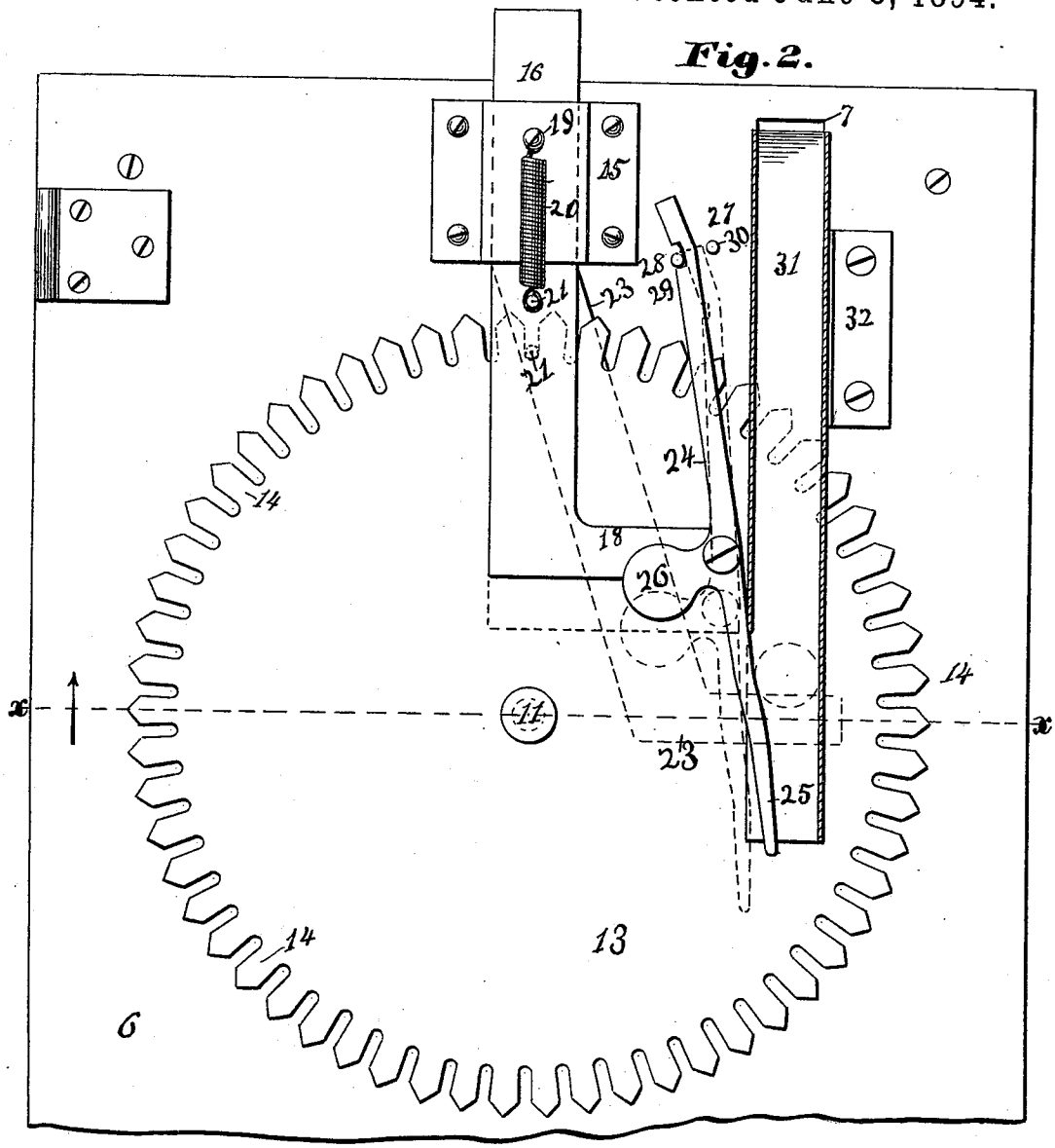
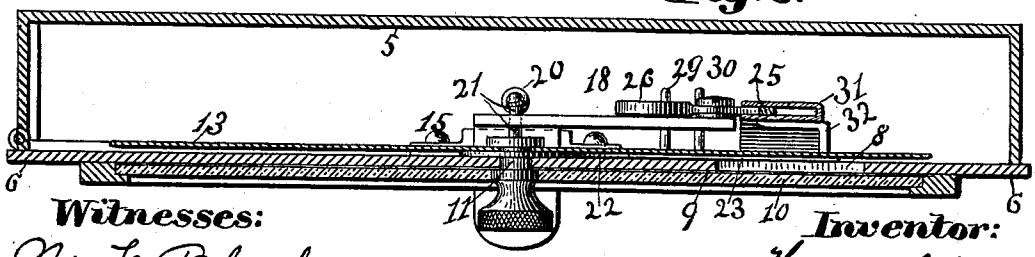



**Fig. 3.**

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# UNITED STATES PATENT OFFICE.

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

## COIN-CONTROLLED MECHANISM.

SPECIFICATION forming part of Letters Patent No. 520,931, dated June 5, 1894.

Application filed August 29, 1893. Serial No. 484,282. (No model.)

*To all whom it may concern:*

Be it known that I, HORACE A. MANLEY, of the city of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Coin-Controlled Mechanisms; 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 improvements in devices which may be actuated by a coin to allow the internal mechanism to be operated.

The object of this invention is to simplify the construction of devices of this class and to reduce the cost of manufacture.

Another object of the invention is to so construct a novel coin-controlled mechanism that but a single operation of the device may be secured for each coin inserted in the slot thereof.

Another object is to produce a new and peculiar device for answering questions.

Still another object is to so construct a coin-controlled device having a slotted cover, a shutter for closing the slot, and an internal device having a series of answers to questions that the opening of the shutter will cause the answering-device to be automatically locked.

The invention consists in the combination with a slotted door, or cover, and an internal device having numbered answers adapted to be brought opposite the slot in the door, of a shutter adapted to cover the portion of the answer device opposite the slot in the door, and to be locked and unlocked.

The invention also consists in the peculiar construction of the answer-device.

The invention still further consists in the peculiar locking-mechanism for locking the shutter against operation until released, in the manner specified, and for automatically locking the answer-device when the shutter is operated.

The invention also consists in such other peculiar features of construction and combination of parts as will hereinafter be more fully described and pointed out in the claims.

Figure 1 represents a front elevation of the device, a portion of the door, or cover, being broken away to show the answer device. Fig. 2 represents a back view of the door, or cover, showing the internal mechanism. Fig. 3 represents a cross-sectional inverted view of the device taken on a line $x$—$x$ Fig. 2.

Similar numbers of reference designate corresponding parts throughout.

In the drawings 5 indicates a box, or case, of any desired cross-sectional shape and of suitable size, and 6 is a door, or cover, hinged or otherwise secured to the case 5,—the door 6 is furnished with a narrow slot 7 at the upper portion and with a name-slot 8 at about the center of one side and has also a central perforation,—on the outer surface of the door is secured a sheet of paper, or other material, 9 having a series of questions, a list of advertisements, a series of illustrations, &c., each advertisement, illustration, &c., having its appropriate number, this sheet 9 may be covered with a glass if desired. In the central perforation of the door is journaled a short shaft 11 having at its outer end a thumb-nut 12 and secured at its inner to the disk 13 having a series of teeth 14—14 arranged around its circumference, or formed in part therewith. Secured to the rear of the door 6, at its upper central portion, is a guide 15 in which the lever 16 slides, the upper end of this lever is bent forward to form the push-piece 17 extending outward from above the door, and the lower portion of the lever extends at right angles to form the arm 18,—to the guide 15 is secured a screw 19 to which the upper end of the coiled-spring 20 is fastened, the lower end of the spring being fastened to the pin 21 which extends through the lever 16, forming on one side a fixture for the spring 20 and on the other a stop-pin for engaging between the teeth 14 of the disk 13 when the lever 16 is depressed. To the surface of the lever 16, toward the door, is secured the shutter-arm 22 having at its lower end the shutter 23 for wholly or partially closing the name-slot 8, and to the arm 18, of the lever 16, is pivoted the catch-lever 24 having the lower finger 25, the counterweight 26 and the upper bent end 27 furnished with the catch-notch 28, the upper end of this catch-lever working between the pins 29 and 30 secured to the back of the door 6. The chute 31 is fastened, by means of the bracket 32, to the rear of the door 6, at its lower portion one edge being left open to

allow the finger 25 of the catch-lever 24 to freely vibrate within the chute, the cross-sectional shape and size of the chute is determined by the size of the coin or other token by the use of which it is proposed to unlock the catch-lever.

When the device is used for advertising purposes the operation is as follows: The advertisement which it is desired to answer is first selected, the number being noted. The thumb-nut 12 is then turned until a number corresponding to that of the advertisement is presented to view through the open portion of the slot 8. A coin is then dropped into the slot 7 and passing down the chute 31 presses the finger 25 of the catch-lever 24 outward, disengaging the notch 28 from the pin 29 and throwing the upper end of the catch-lever against the pin 30. This movement, however, not being sufficient to allow the coin to pass the finger 25,—the push-piece 17 is now pressed downward carrying with it the lever 16 and the shutter-arm, uncovering the slot 8 at the same time that the pin 21 is brought between two of the dial-teeth 14 and bringing the bent end 27 of the catch-lever between the pins 29 and 30, thus allowing the finger 25 to swing outward sufficiently to permit the coin to drop out of the chute into the box 5. The operator holds the push-piece 17 down until he has copied the name of the party advertising, but is prevented from turning the disk 13 to secure other names by the pin 21 being between the teeth 14. The dropping of the coin from the chute and the moving of the shutter are practically simultaneous, and as the coin drops away from the finger 25 the weight 26 throws the finger back into the position shown in solid lines in Fig. 2, thus preventing the withdrawal of the coin if a string be attached thereto. When the push-piece is released the mechanism will again be set by means of the spring 20.

This device may be used in a variety of games, for a toy bank and for other purposes.

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

1. In a coin-controlled apparatus, the combination with a case, and a door for closing the same, the door being furnished with a slot and a list of numbered questions or illustrations, of a rotatable-disk within the case having on one surface a list of answers or titles, a shutter for closing the slot in the door, a locking-device working in unison with the shutter and adapted to lock the disk against rotation, and a coin-controlled mechanism for releasing the shutter.

2. In a coin-controlled apparatus, the combination with a coin chute open at the bottom and a portion of one edge, of a counterweighted catch-lever, pivoted on a depressible support, having a curved upper end furnished with a catch-notch and a depending finger adapted to enter the chute, of two pins mounted on a support between which the upper end of the lever moves adapted to limit the vibration of the lever, as described.

3. In a coin-controlled apparatus, the combination with a slotted door centrally perforated, a shaft journaled in said perforation and a toothed disk secured to the inner end of the shaft, of a shutter for covering the slot in the door, a catch adapted to be operated by the opening of the shutter to engage the disk-teeth, and a coin-controlled mechanism for releasing the shutter.

4. The combination with the door 6 having the slots 7 and 8 and a central perforation, the shaft 11 journaled in the perforation and furnished with the thumb-nut 12, and the disk 13, having teeth 14 arranged around its circumference, secured to the inner end of said shaft, of a shutter for closing the slot 8 and adapted to engage the disk 13, and a coin-controlled device for releasing the shutter.

5. The combination with the door 6 having the slots 7 and 8 and a central perforation, the shaft 11 journaled in said perforation, the disk 13 having the teeth 14 mounted on the shaft, and the chute 31 secured to the rear surface of the door extending downward from the slot 7, of the guide 15 secured to the rear of the door, the lever 16 having the arm 18 and push-piece 17 mounted in the guide, the pin 21 extending through such lever, the spring 20 secured to the pin 21 and to a screw on the guide, the shutter-arm 23 carrying the shutter 24, secured to the lever 16, the catch-lever 24 pivoted to the arm 18 and having the finger 25, the counterweight 26, and the bent end 27 furnished with the notch 28, the pin 29 secured in the door for engaging said notch, and the pin 30 also secured in the door for limiting the vibration of the catch, as described.

In witness whereof I have hereunto set my hand.

HORACE A. MANLEY.

Witnesses:
WILLIAM K. RITCHIE,
CHARLES W. WELLS.