

No. 744,673.

PATENTED NOV. 17, 1903.

C. H. BALSLEY.

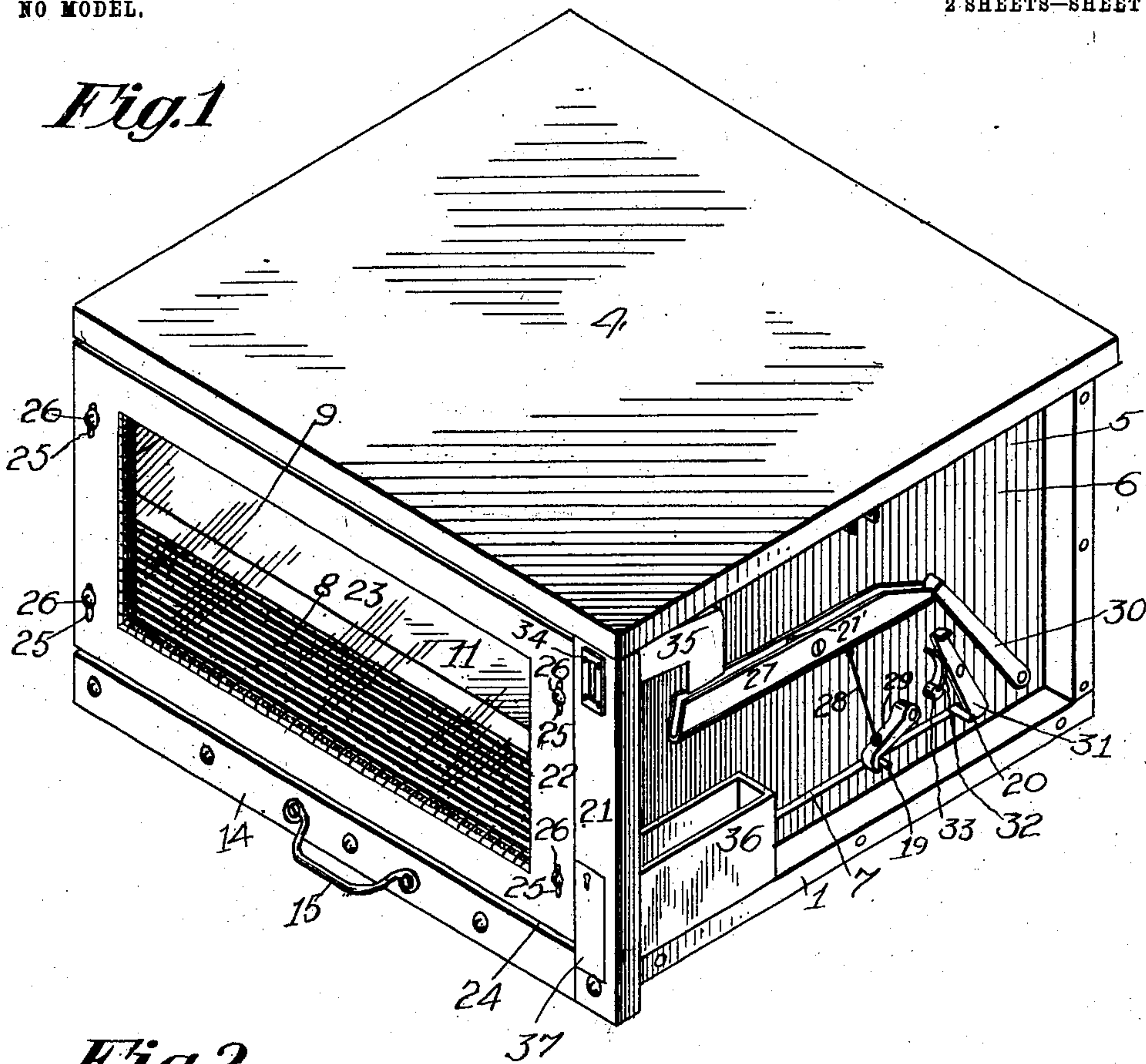
COIN CONTROLLED VENDING MACHINE FOR NEWSPAPERS, MAGAZINES, &c.

APPLICATION FILED JAN. 24, 1903.

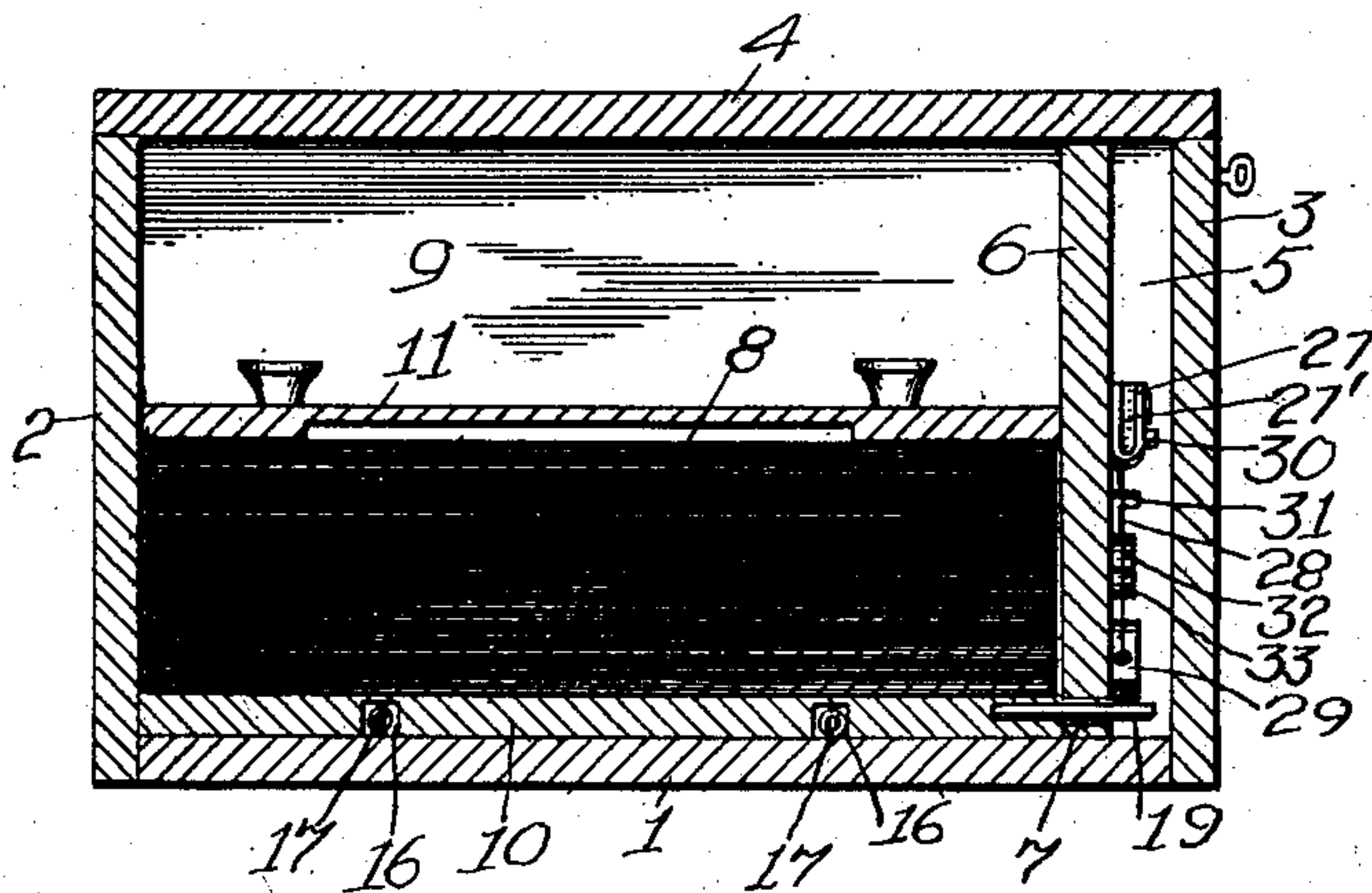
NO MODEL.

2 SHEETS—SHEET 1.

*Fig. 1*



*Fig. 2*



Witnesses:  
Geo. B. Rowley.  
C. E. Potter.

Inventor;  
Charles H. Balsley.  
By *H. Everett*  
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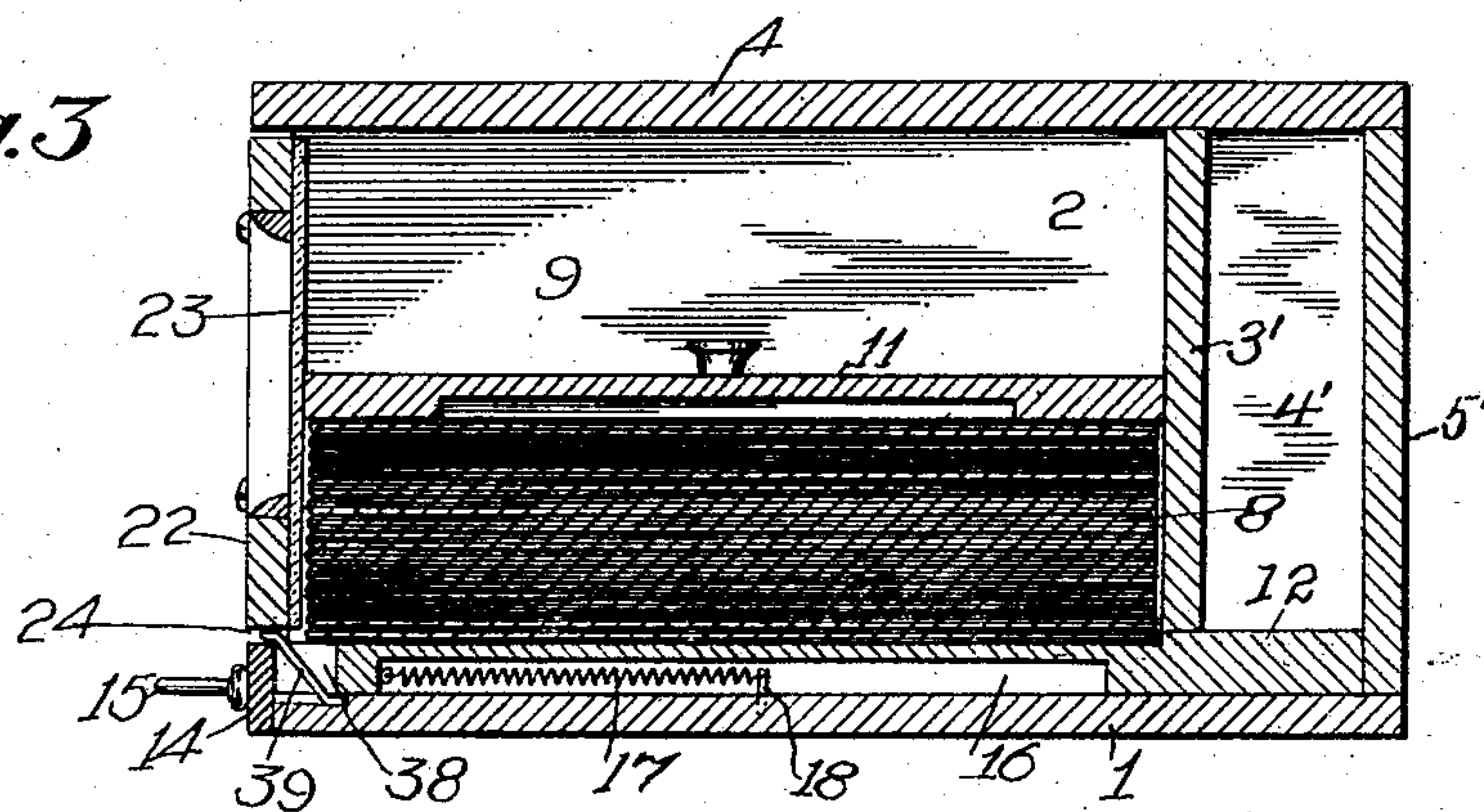
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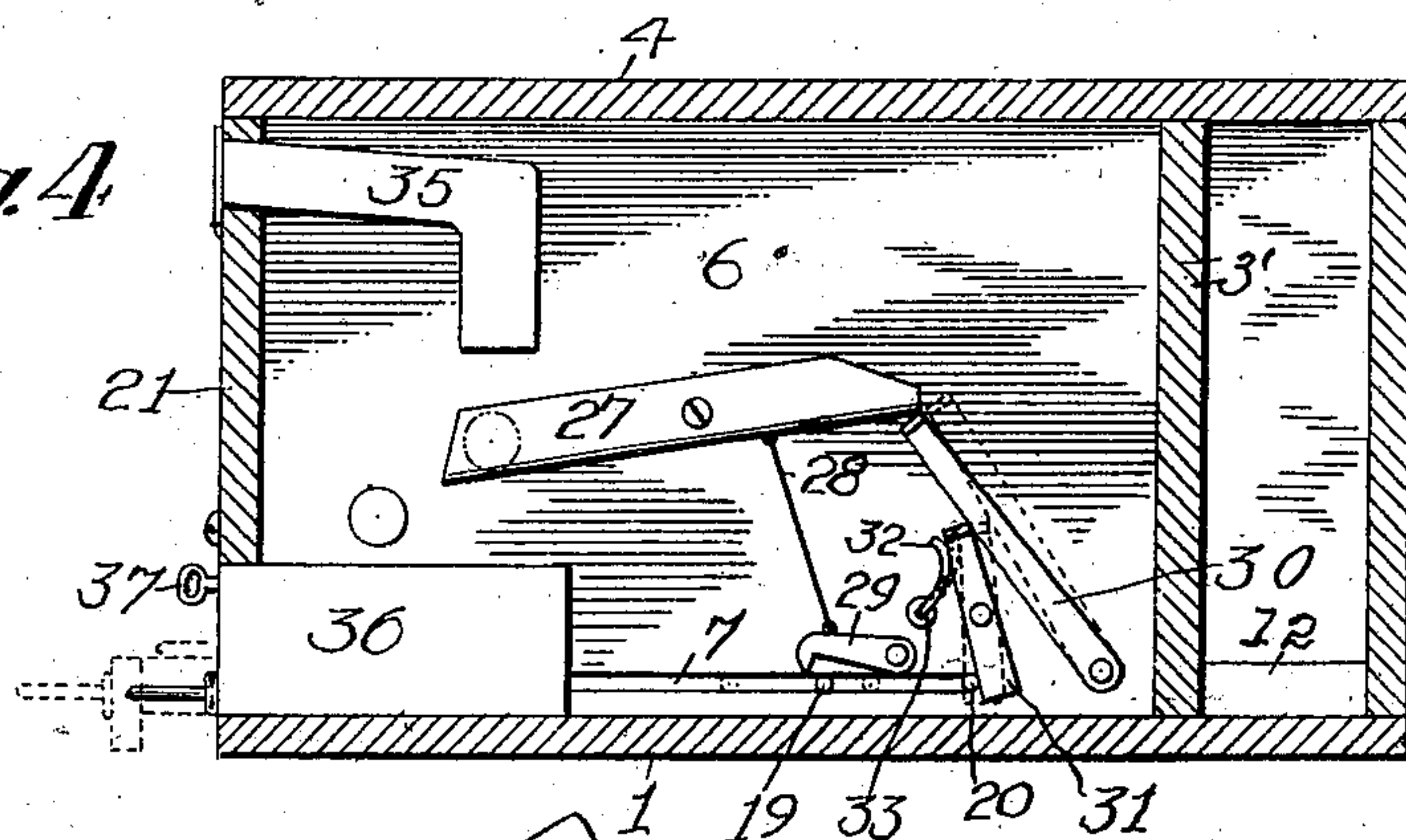
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2 SHEETS—SHEET 2.

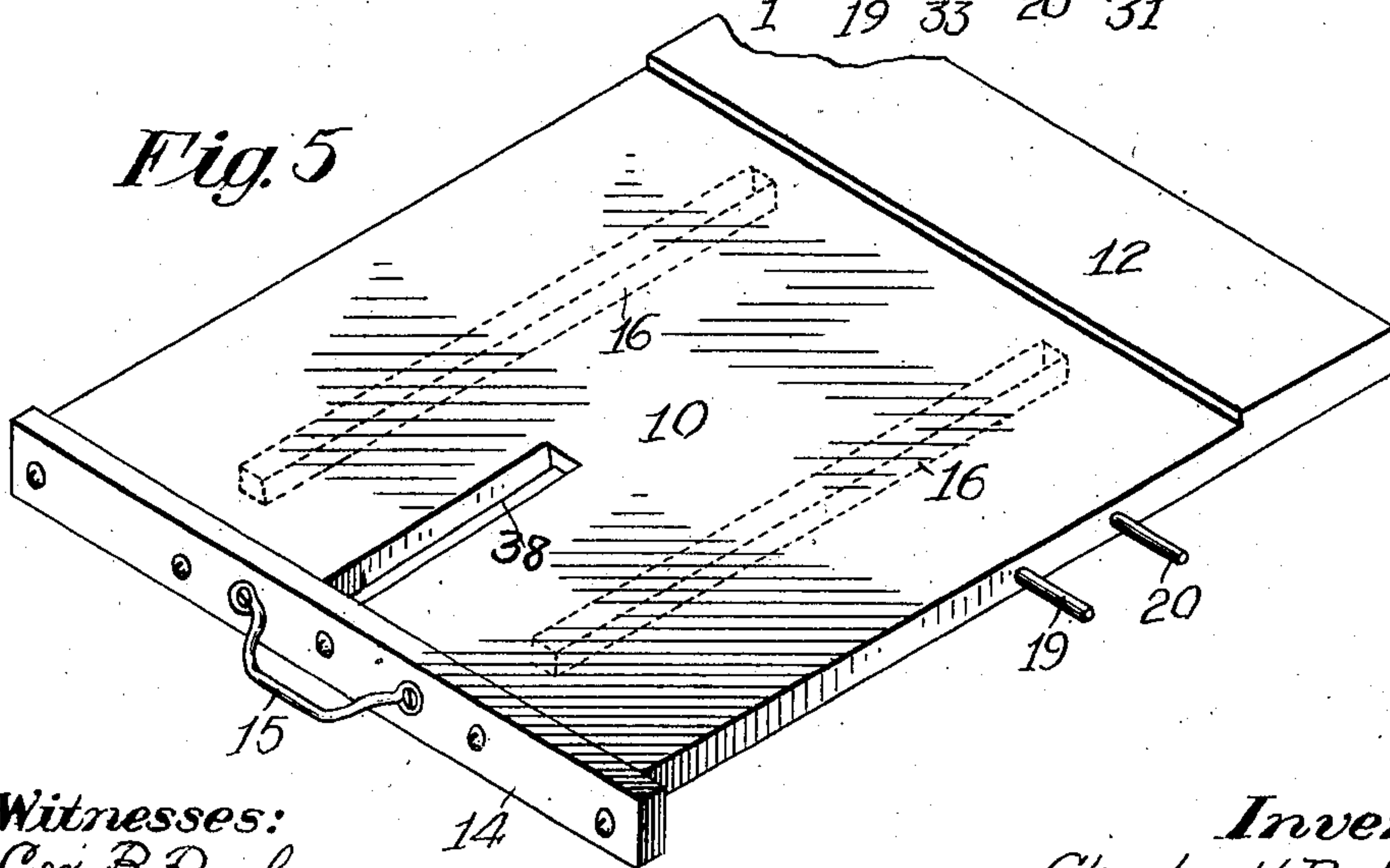
*Fig. 3*



*Fig. 4*



*Fig. 5*



Witnesses:  
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# UNITED STATES PATENT OFFICE.

CHARLES H. BALSLEY, OF NEW HAVEN, PENNSYLVANIA, ASSIGNOR OF TWO-THIRDS TO JAMES J. DRISCOLL, OF CONNELLSVILLE, PENNSYLVANIA, AND ROBERT S. MCKEE, OF NEW HAVEN, PENNSYLVANIA.

COIN-CONTROLLED VENDING-MACHINE FOR NEWSPAPERS, MAGAZINES, &c.

SPECIFICATION forming part of Letters Patent No. 744,673, dated November 17, 1903.

Application filed January 24, 1903. Serial No. 140,407. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. BALSLEY, a citizen of the United States of America, residing at New Haven, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Coin-Controlled Vending-Machines for Newspapers, Magazines, &c., of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in vending-machines; and it relates more particularly to coin-controlled machines for newspapers, magazines, and the like, the object of the invention being to construct a machine with automatic means adapted upon being released by the depositing of a coin to permit the withdrawal from the machine of a single newspaper or magazine for each coin deposited.

The invention has for its further object to construct a machine of this character which will be extremely simple in construction, strong and durable, efficient in its operation, and comparatively inexpensive to manufacture.

Further objects contemplated by the invention will hereinafter more fully appear and will be more explicitly described and then pointed out in the claims, and in describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a detail perspective view of my improved coin-controlled vending-machine with one of the side walls removed to show the operating mechanism. Fig. 2 is a transverse vertical sectional view of the machine. Fig. 3 is a vertical sectional view thereof. Fig. 4 is a cross-sectional view showing the mechanism in side elevation. Fig. 5 is a detached detail perspective view of the operating slide-plate, partly broken away.

To put my invention into practice, I provide a box or casing to hold the newspapers, magazines, or other like articles, providing this box or casing with a false bottom or slide upon which the articles rest, and which false

bottom or slide is provided with a ledge at its rear end of a height sufficient to engage the underneath newspaper, magazine, or other like article and move the same outwardly to the front of the box as the false bottom or slide is operated. This bottom or slide is limited in its outward movement, and it returns when released by the action of springs connected thereto, leaving a portion of the newspaper or magazine projected in front of the box, where it may be easily withdrawn by hand. On return of the false bottom or slide to its normal position it is automatically locked, and the operating mechanism also is automatically returned to position, whereby to be operated by the next coin deposited. The box or casing will of course in practice be constructed of a size to suit the articles which are to be vended, and the articles are folded in a manner whereby they will lie flat one on top of the other within the box or casing in order that they may be successively withdrawn.

In the accompanying illustration of my invention, 1 indicates the bottom of the box; 2, one of the side walls thereof; 3, the other side wall; 3', the false back, and 4 the lid or cover. The lid or cover is preferably hinged along one edge and is provided along the opposite edge with a lock whereby to fasten the same to the side wall 3. Since this lock may be of any approved or desired form, I have not shown the same in detail. Placed within the box or casing adjacent to the side wall 3, whereby to form the space 5 for the operating mechanism, is a partition 6, provided near its lower edge with an elongated slot 7. The space 5 has the operating mechanism therein, a number of the elements entering into the mechanism being pivotally attached to the partition 6. The newspapers or magazines 8 are neatly folded to a size to fit neatly within the space 9 of the box or casing and rest upon the false bottom or slide 10, being held firmly against said bottom or slide by the follower 11. The slide or bottom 10 is of a width equal to the width of the space 9 in the box or casing and is provided at its rear edge with a ridge or ledge 12, adapted to engage the rear edge of the underneath news- 100



paper or magazine, moving the same forwardly when the slide or bottom is operated. When in its normal position, the rear end of the slide projects into the space 4' between the false back 3' and back wall 5'. To the front edge of this slide is attached the strip 14, provided with a suitable handle 15 for operating the said slide or bottom. The false bottom is provided on its underneath face with elongated recesses 16, springs 17 being located in these recesses and being attached at their forward ends to the false bottom or slide and at their rear ends to pins 18, carried by the bottom 1. The false bottom or slide also carries in one edge pins 19 and 20, which project through an elongated slot 7. The box or casing is constructed with a corner-post 21, which covers the space 5 at the front of the box, the front plate 22 of the box extending from the face of this corner-plate to the opposite side of the box. This front plate 22 is provided with a transparent panel 23 in order that the amount of papers or magazines in the box may be readily observed, and this plate is made adjustable whereby to vary the width of the slot 24, through which the papers or magazines are drawn, the plate to this end being provided with elongated slots 25, through which the fastening-screws 26 project.

The coin-operated mechanism comprises a coin-receiving trough 27, which is pivoted centrally of its length to the partition 6 and is connected by a cord or other suitable connection 28 to the catch 29, also pivoted to the partition 6. A dog 30 is pivoted at its lower end to the partition 6 and normally engages against the rear end of the coin-receiving trough 27, as seen in Fig. 1. The lever 31 is also pivoted substantially centrally of its length to the partition 6 and is engaged by the spring 32, carried by the stud 33, secured to the partition 6. The coin is deposited in the coin-slot 34 in the corner-post 21 and is conducted through chute 35, communicating with said slot, to the coin-receiving trough 27. When the coin-receiving trough 27 is tilted, the coin is deposited into the receiving-box 36, access to which is had through lock 37, which may be of any approved or desired form. The false bottom or slide is provided with an opening 38 near the front, through which projects the spring 39, which is depressed as the newspaper or magazine is pushed forward and which returns to its normal position when the newspaper or magazine is taken by the operator, whereby to prevent the extraction of the papers or magazines without the depositing of a coin and preventing the newspaper or magazine from being drawn back in by the return of the false bottom.

In order to describe the operation, we will assume that the papers or magazines have been placed in the box and the operating mechanism is in its normal position, as seen in Fig. 1. When the coin is deposited in the

slot 34, it is conducted by coin-chute 35 to the coin-receiving trough 37, tilting this trough in the manner seen in Fig. 4, and thereby permitting the dog 30 to drop to the position shown in full lines in Fig. 4, whereby its upper end engages under the rear end of the trough 27 and holds said trough in an inclined position. This tilting of the rear end of the trough has caused connection 28 to lift the catch 29 from engagement with pin 19, thereby releasing the lock in the false slide or bottom and allowing the latter to be pulled forwardly. As the bottom or slide is pulled forwardly the ridge 12 carries therewith the underneath newspaper or magazine, forcing the same out through the slot 24, whereby it may be taken by the operator. The slide or bottom is limited in its movement by the rear end of recesses 16 coming into engagement with pin 18, and when the pull on the slide or bottom is relieved the springs 17 return the false bottom or slide to its normal position. As the bottom or slide was pulled forwardly, the pin 20 moving away from engagement with the lever 31, spring 32 acts against this lever so as to cause the same to engage dog 30 and force the same upwardly out of the way of the rear end of the trough 27, whereby as the slide or bottom returns the trough is free to assume its normal position, and as pin 20 engages the edge of the lever 31 near the lower end thereof this lever is retracted out of engagement with dog 30 and the dog is free to drop against the end of the trough, as seen in Fig. 1. The return of the trough to the normal position, as seen in Fig. 1, allows the catch 29 to drop into engagement with pin 10 to prevent the withdrawal of the slide until another coin is deposited in the coin-receiving chute to again tilt the trough, disengaging the catch 29, and permit another operation of the slide to withdraw the succeeding newspaper or magazine. The follower on top of the pile of newspapers or magazines keeps the same pressed downward, whereby the underneath one will always be in position to be engaged by the ridge on the rear end of the slide as the latter is pulled forward. The ledge 12 when the false bottom is in the retracted or normal position lies in the space 4'. As the false bottom is pulled forward the ledge engages the underneath paper or magazine and holds up the remaining magazines or papers, so that when the false bottom returns the package drops to bring the succeeding paper into position.

While I have herein shown and described the invention in detail as is practiced by me, yet it will be observed that various changes may be made in the details of construction without departing from the general spirit of the invention.

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

1. The combination with the casing and the slide arranged therein, of a pivoted coin-re-



ceiving trough, a catch pivoted below said trough and being operatively connected thereto, means carried by the slide normally engaged by said catch, a dog normally engaging  
5 said trough, a spring-pressed lever arranged beneath said dog, and means carried by the slide for normally holding said lever out of engagement with said dog.

2. The combination with a casing and slide  
10 arranged therein, of a pair of pins carried by the said slide, a coin-receiving trough pivoted above the said pins, a catch pivoted below the said trough and adapted to normally engage one of the said pins, a hinge connection  
15 between the said catch and the rear end of

the said trough, a dog pivotally mounted and normally bearing against the rear end of the said trough, a lever pivoted in front of the said dog and being spring-pressed so as to operate the said dog, said lever being normally  
20 prevented from operating the said dog by the other pin of the said slide, and means for retracting the said slide.

In testimony whereof I affix my signature in the presence of two witnesses.

CHARLES H. BALSLEY.

Witnesses:

ROBT. S. MCKEE,  
JAS. J. DRISCOLL.