No. 858,837. PATENTED JULY 2, 1907.

C. C. TRAVIS.

VENDING MACHINE CONSTRUCTION.

APPLICATION FILED FEB. 18, 1907.

2 SHEETS—SHEET 1.

Fig. 5.

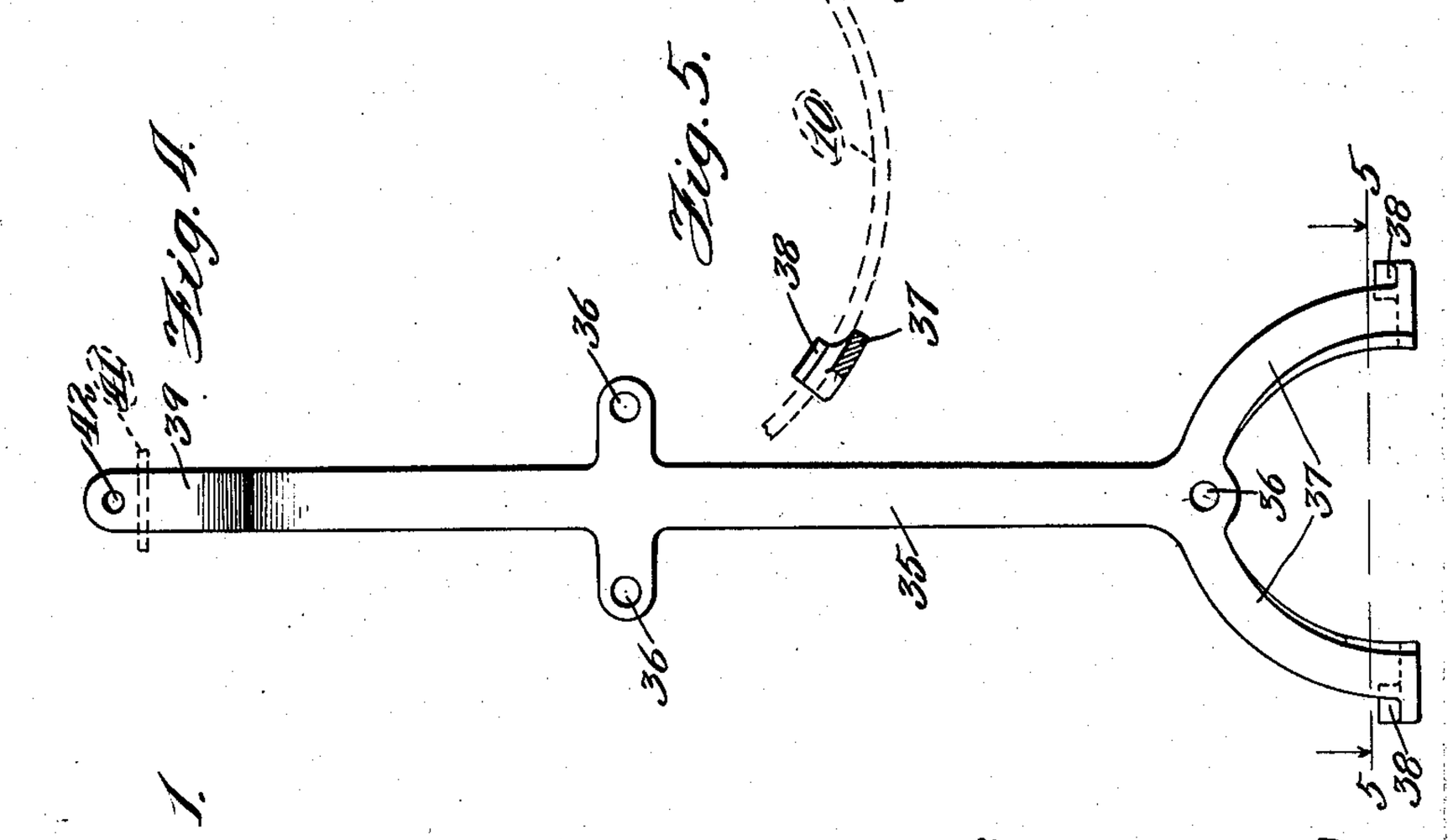
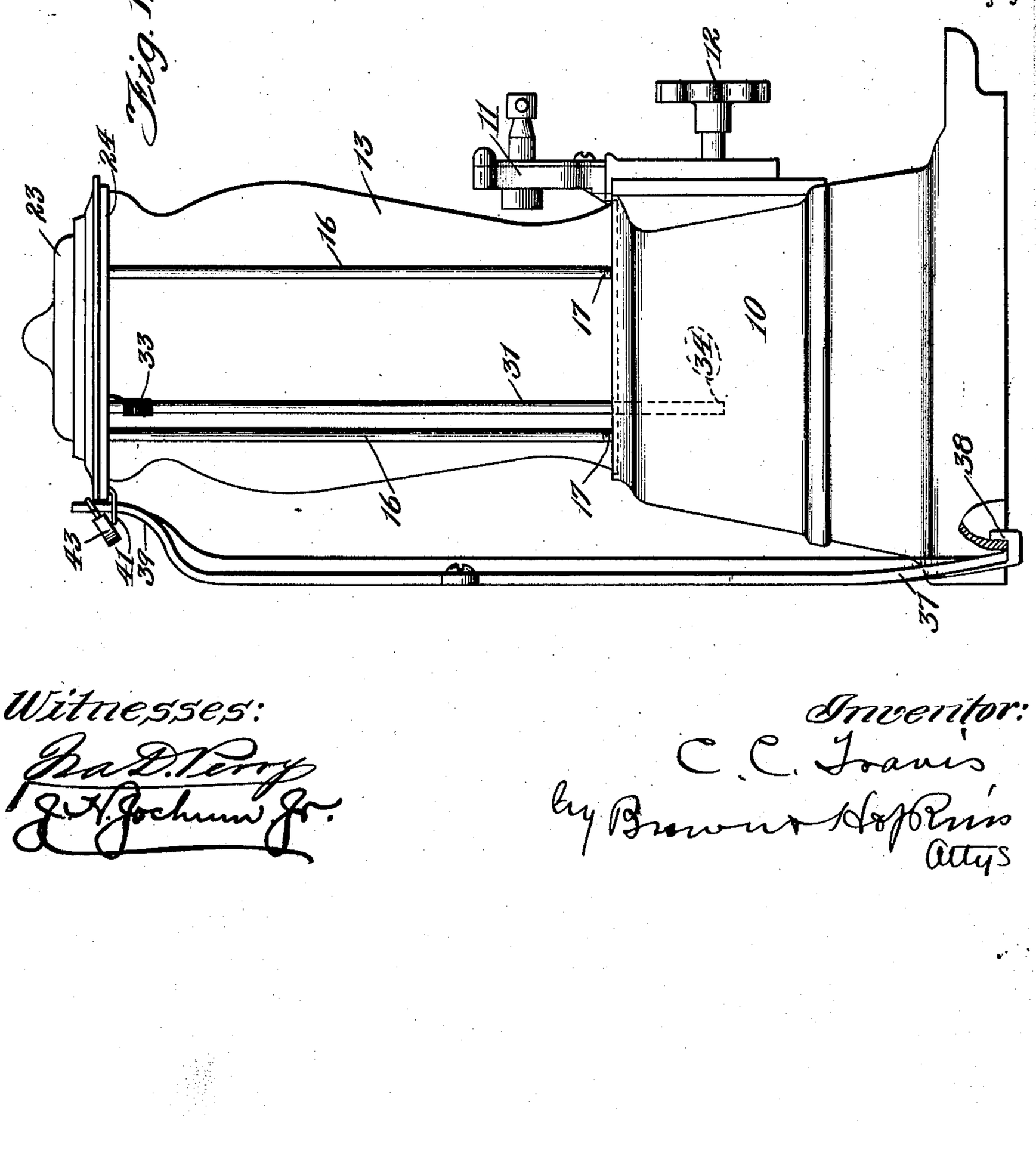


Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 2.

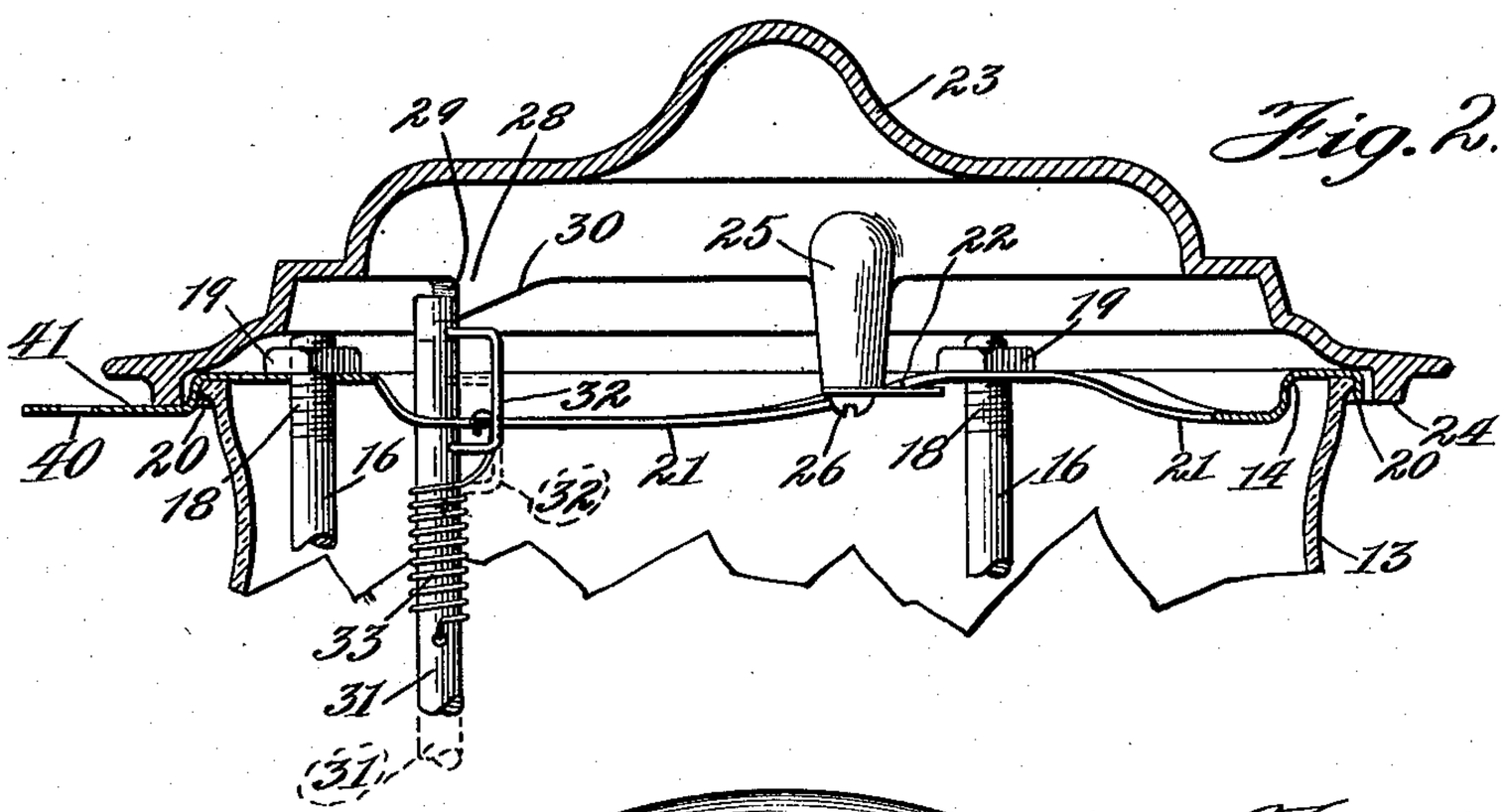
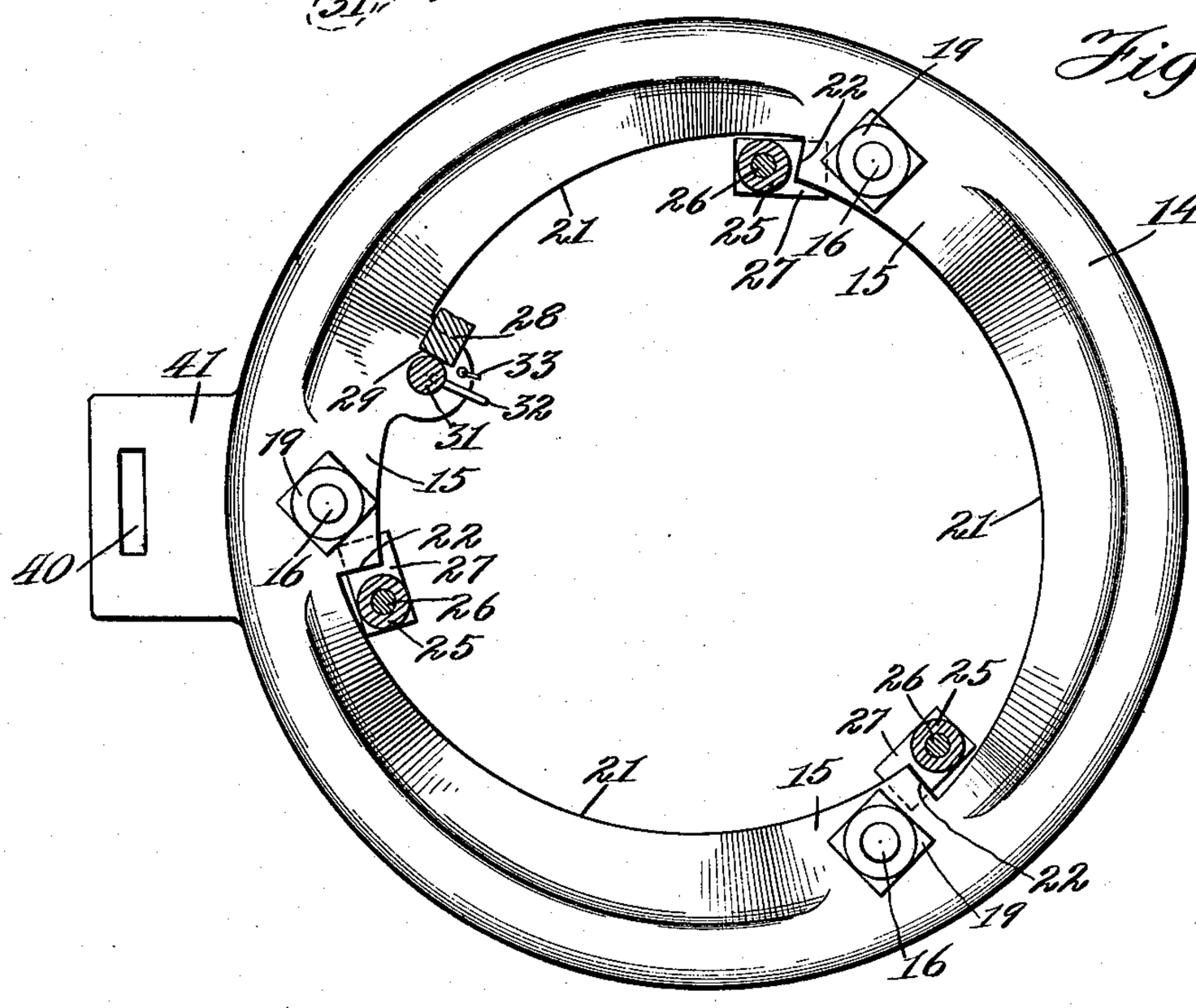


Fig. 3.



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UNITED STATES PATENT OFFICE.

CLARENCE C. TRAVIS, OF CHICAGO, ILLINOIS.

VENDING-MACHINE CONSTRUCTION.

No. 858,837. Specification of Letters Patent. Patented July 2, 1907.

Application filed February 18, 1907. Serial No. 357,816.

To all whom it may concern:

Be it known that I, CLARENCE C. TRAVIS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Vending-Machine Construction, of which the following is a full, clear, and exact specification.

This invention relates to improvements in the construction of vending machines, and the primary object of the invention is to provide an improved closure for the magazine, and improved means for locking the closure in position.

A further object is to provide an improved bracket for supporting and securing the machine in position.

A further object is to provide an improved device of this character which will be simple and inexpensive in construction and efficient in operation.

To the attainment of these ends and the accomplishment of other new and useful objects, as will appear, the invention consists in the features of novelty in the construction, combination and arrangement of the several parts hereinafter more fully described and claimed, and shown in the accompanying drawings illustrating an exemplification of the invention, and in which,

Figure 1 is a side elevation of a machine constructed in accordance with the principles of this invention; Fig. 2 is an enlarged detail sectional view of the upper part of the magazine showing the cover or closure in position; Fig. 3 is a top plan view of the magazine with the cover removed; Fig. 4 is an elevation of the supporting bracket; Fig. 5 is a detail sectional view on line 5—5 of Fig. 4.

Referring more particularly to the drawings, and in this exemplification of the invention, the numeral 10 designates a supporting base preferably hollow.

The numeral 11 designates a coin delivery mechanism, and 12 the operating handle of the discharge mechanism, the specific construction of which forms no part of the present application.

A suitable magazine 13, open at the top and bottom, and preferably constructed of glass or other transparent material is supported upon the base 10, and is held in position by means of an apertured cap or ring 14 which rests upon the top of the magazine and projects inward from the wall of the magazine for some distance, as at 15. Passing through the inwardly projecting portion 15, and at suitable intervals, are suitable rods or stays 16, which preferably have threaded engagement 17 with the base 10. The upper extremities of these rods or stays 16 are also preferably threaded, as at 18, and engaging these threaded extremities are suitable nuts 19 which rest upon the ring or cap 14, which latter co-operates with the base 10 for clamping the magazine in position. This cap or ring is held from lateral displacement by means of a peripheral flange 20 engaging over the edge of the magazine. The inwardly projecting portion 15 of the cap or ring 14 is cut away, as at 21, and depressed to form cam shaped portions which terminate in shoulders or projections 22 located preferably at the highest point of the cam shaped portions.

A suitable cover 23 is provided for the magazine, and said cover is provided with a depending circumferential flange 24, the internal diameter of which is slightly larger than the external diameter of the top of the magazine 13. Arranged within and depending from the cover 23 are a plurality of lugs or projections 25, equal in number to the cam-shaped portions 21, and removably secured to the extremities of these lugs or projections, in any suitable manner, such as by means of screws 26, are clips 27 which project laterally beyond the lugs or projections. The lugs or projections are adapted to stand within the cut-away portions 21 when the cover is placed upon the top of the magazine 13, and when the cover is rotated to bring the lugs or projections 25 towards the shoulders 22, the clips 27 will pass under the inwardly projecting portion 15 of the cap or ring 14, to prevent the cover from being lifted off of the magazine. A lock may be provided for holding the cover in position, comprising a depending lug 28 arranged on the cover, and having a straight edge 29, and an inclined face 30.

Passing through the inwardly projecting portion of the cap or ring 14 is an upper end of a rod or member 31, and secured thereto are the ends of an elongated U-shaped member 32, the body of which stands astride of the edge of the portion 15 of the cap or ring 14 through which the rod or member 31 passes and serves to prevent displacement of said member. The upper extremity of this rod or member 31 is normally and yieldingly held in the path of movement of the lug or projection 28 by means of a spring 33, one end of which is secured to the rod or member 31, and the other end to a suitable support, preferably the ring or cap 14.

The cover is placed in position, so that the lug or projection 28 will stand behind the extremity of the rod 31, and as the cover is rotated the inclined face of the lug 28 will engage and depress the rod 31 until the lug has passed over the rod, when the spring 33 will force the extremity of the rod upward and behind the lug, so that if the cover should be rotated in a backward direction, the straight edge 29 will engage the rod and prevent further rotation of the cover. The rod 31 and lug 28 are so arranged with relation to the lugs 25, that the rod will stand behind and adjacent the straight edge of the lug 28, just as the clips 27 pass under and the lugs 25 engage the shoulders 22. The free extremity 34 of the rod or member 31 passes into the base 10, access to which may be had through a suitable opening in the base (not shown). This rod or member 31 is also located within the magazine 13, and when it is desired to

remove the cover the rod is drawn downward by its free end 34 and held in this position, while the cover 23 is rotated to disengage the clips 27 from the shoulders 22, which permits the lug 28 to pass over the end of the rod, after which the rod may be released, and the cover lifted off.

The machine may be held in position by means of a suitable bracket comprising a body portion 35 which may be secured to a suitable support by means of bolts or screws passing through suitable apertures 36. The lower extremity of the body portion is bifurcated, to form two spaced arms 37, the extremities of which terminate in forwardly projecting hook-shaped portions 38, which latter are adapted to engage under the edge of the base 10 of the machine. The upper extremity 39 is preferably deflected forwardly, and adapted to pass through a suitable perforation 40 in a laterally projecting ear or portion 41 on the ring or cap 14. The extremity 39 is also provided with an aperture 42, located above the ear or portion 41, which is adapted to receive a suitable fastening means or lock 43, for securing the machine to the bracket 35.

In order that the invention might be fully understood, the details of an embodiment thereof have been thus specifically described, but

What I claim is:—

1. In a device of the class described, the combination of a base, a magazine resting upon the base and having an open top and bottom, a retaining ring engaging the top edge of the magazine, means located within the magazine and having engagement with the ring and the base for holding the magazine in position, a detached cover for the top, inter-engaging means on the cover and ring for retaining the top in position, and separate means for preventing removal of the top.

2. In a device of the class described, the combination of a base, a magazine resting upon the base and having an open top and bottom, a retaining ring engaging the top edge of the magazine, means located within the magazine, and having engagement with the ring and the base for holding the magazine in position, a detached cover for the top, inter-engaging means on the cover and ring for retaining the cover in position, and separate locking means located within the magazine and adapted to lock the top to prevent removal of the latter.

3. In a device of the class described, the combination of a base, a magazine resting upon the base and having an open top and bottom, a retaining ring engaging the top edge of the magazine, means located within the magazine and having engagement with the ring and the base for holding the magazine in position, a cover for the top, inter-engaging means on the cover and ring for securing and retaining the top in position, and separate yielding locking means located within the magazine and adapted to lock the top to prevent removal of the latter.

4. In a device of the class described, the combination of a magazine having an open top, a ring engaging the edge of the top, means for securing the ring in position, said ring being provided with a projection, a cover, a projection on the cover, said cover being adapted to be axially rotated to cause the projections to be brought into engagement for securing said cover in position, and means for locking said projections in engagement.

5. In a device of the class described, the combination of a magazine having an open top, a ring engaging the edge of the top, means for securing the ring in position, a cover, means on the cover and the ring adapted to be brought into engagement when the cover is axially rotated, a projection on the cover, and yielding means normally standing in the path of the movement of the projection when the cover is in place, said yielding means being adapted to be depressed by the projection when the cover is rotated, and to assume a position behind the projection for locking the cover against removal.

6. In a device of the class described, the combination of a magazine having an open top, a ring engaging the edge of the top, means within the magazine for securing the ring in position, a cover, means on the cover and the ring within the magazine, adapted to be brought into engagement when the cover is axially rotated for securing the same in position, yielding locking means also within the magazine, and means adapted to depress said locking means to permit rotation of the cover and with which the locking means co-operates to prevent retrograde movement of the cover.

7. In a device of the class described, the combination of a magazine having an open top, a ring engaging the edge of the top, means for securing the ring in position, a cover, means on the cover and ring adapted to be brought into engagement when the cover is axially rotated for securing the same in position, a projection on the cover, and a yielding member within the magazine standing normally in the path of movement of the projection and being adapted to be depressed by the projection when the cover is rotated, and also adapted to assume a position behind the lug when the securing means are in engagement.

8. In a device of the class described, the combination of a base, a magazine supported by the base and having an open top, retaining means for the magazine, a cover, means on the cover and the retaining means adapted to be brought into engagement for securing the cover in position, a yielding locking member, and a projection on the cover having an inclined face, said inclined face being adapted to engage and depress the yielding member to permit the securing means to be brought into engagement, and to assume a position behind the projection to prevent dis-engagement of the securing means.

9. In a device of the class described, the combination of a base, a magazine supported thereby and having an open top, means engaging the top edge of the magazine for securing the same to the base, a cover, inter-engaging means on the cover and the said securing means, for retaining the cover in position, a projection on the cover, and a spring controlled member within the magazine adapted to engage the projection for locking the cover against removal, said member projecting through the magazine and into the base.

10. In a device of the class described, the combination of a base, a magazine supported thereby and having an open top, means engaging the top edge of the magazine for securing the same to the base, a cover, means on the cover and said securing means for retaining the cover in position, a projection on the cover, a spring controlled member within the magazine and extending into the base, and a projection on the cover adapted to be engaged and depressed by the member to permit the retaining means to be brought into engagement, and said member being adapted to assume a position behind the projection to lock the cover against removal.

11. In a device of the class described, the combination of a magazine having an open top, a ring resting upon the top and projecting over the magazine, means for securing the ring in position, said ring being provided with cut-away portions to form shoulders, a cover, projections on the cover adapted to engage the shoulders, said projections being provided with lateral extensions adapted to pass under the ring, and means for locking the cover in position.

12. In a device of the class described, the combination of a magazine having an open top, a ring resting upon the top and projecting over the magazine, means for securing the ring in position, said ring being provided with cut away portions to form shoulders, a cover, projections on the cover adapted to engage the shoulders, said projections being provided with lateral extensions adapted to pass under the ring, a shouldered lug on the cover, and a yielding member adapted to be engaged and depressed by the lug to permit the projections to be brought into engagement with the shoulders, and said member being adapted to engage the shoulder on the lug to lock the cover.

13. In a device of the class described, the combination of a hollow base, a magazine supported thereby and having an open top, a spring controlled member supported within the magazine with one end adjacent the open top, the other end extending into the base, a cover, a projection on

the cover adapted to engage and depress the member against the tension of the spring, and means for securing the cover in position when the member is depressed, the end of said member being adapted to be seated behind the projection for locking the cover in position.

14. In a device of the class described, the combination of a base, a magazine supported thereby, a ring engaging the top of the magazine, means engaging the base and the ring for securing the magazine in position, said ring being provided with an aperture, a bracket removably engaging the base and passing through the aperture in the ring, and means for locking the parts together.

15. In a device of the class described, the combination of a base, a magazine supported thereby, a ring engaging the top of the magazine, means engaging the base and the ring for securing the magazine in position, said ring being provided with an aperture, a bracket removably engaging the base and passing through the aperture in the ring, and a lock engaging the bracket above the ring.

16. In a device of the class described, the combination of a base, a magazine supported thereby, a retaining member, and means engaging said member and the base for securing the magazine in position, said member being provided with a laterally projecting apertured portion, a bracket comprising a body portion provided with an aperture adjacent one end, and forwardly projecting hook-shaped arms at the other end, said arms being adapted to engage the edge of the said base with the other extremity of the bracket projecting through the aperture in the projecting portion, and a lock passing through the perforation in the bracket above said portion.

17. As a new and useful article of manufacture, a supporting bracket for vending machines comprising a body portion having a forwardly deflected apertured upper extremity, and a bifurcated lower end, the extremities of the bifurcations terminating in forwardly extending and upwardly disposed hook-shaped portions.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 18th day of January A. D. 1907.

CLARENCE C. TRAVIS.

Witnesses:

J. H. JOCHUM, Jr.,

M. W. CANTWELL.