A. B. SIMON.

VENDING DEVICE.

APPLICATION FILED NOV. 6, 1919.

1,347,558.

Patented July 27, 1920.

2 SHEETS—SHEET 1.

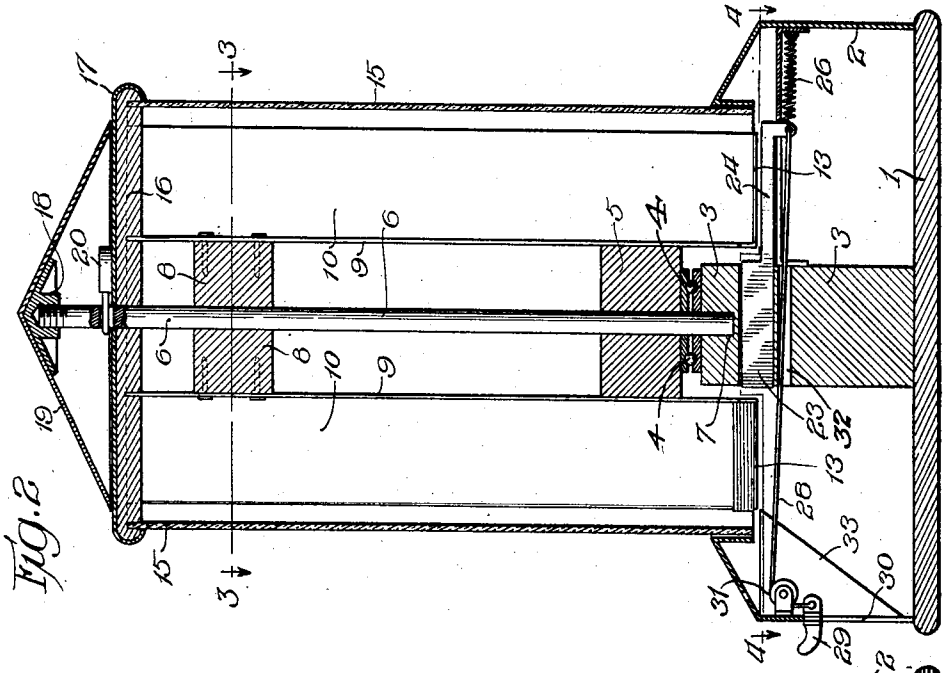


Fig. 2

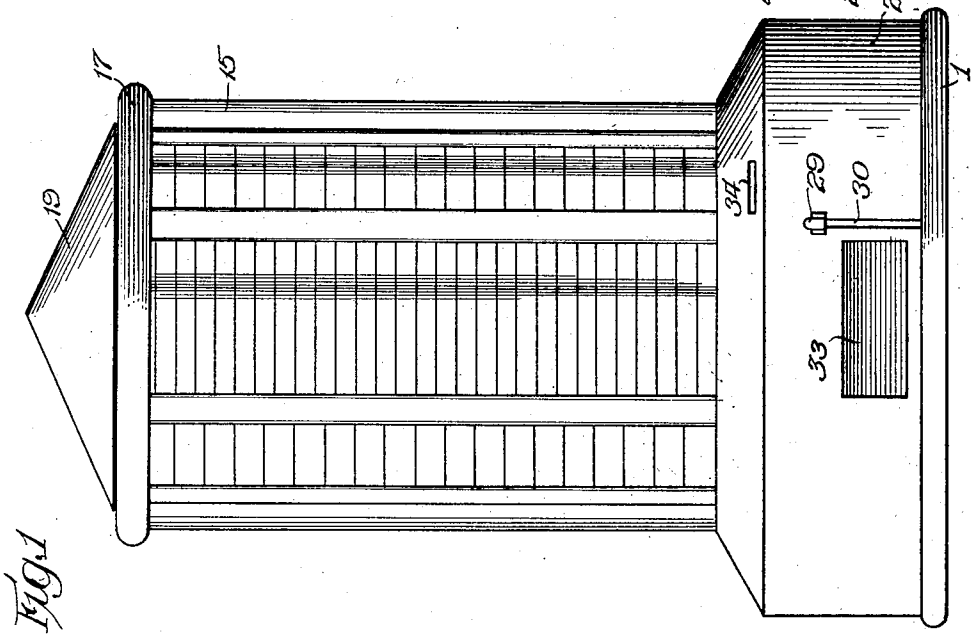


Fig. 1

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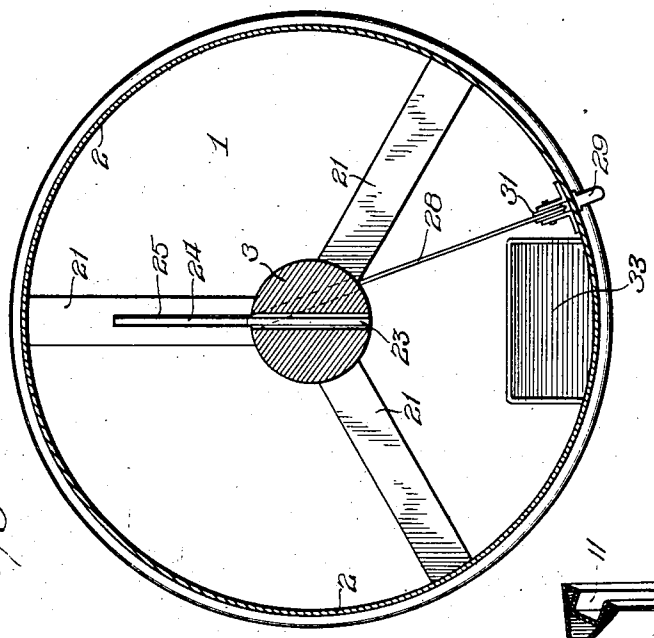


Fig. 4.

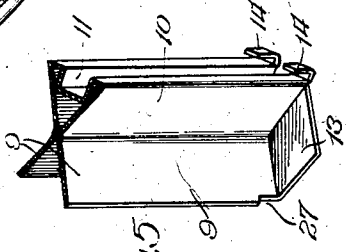


Fig. 5

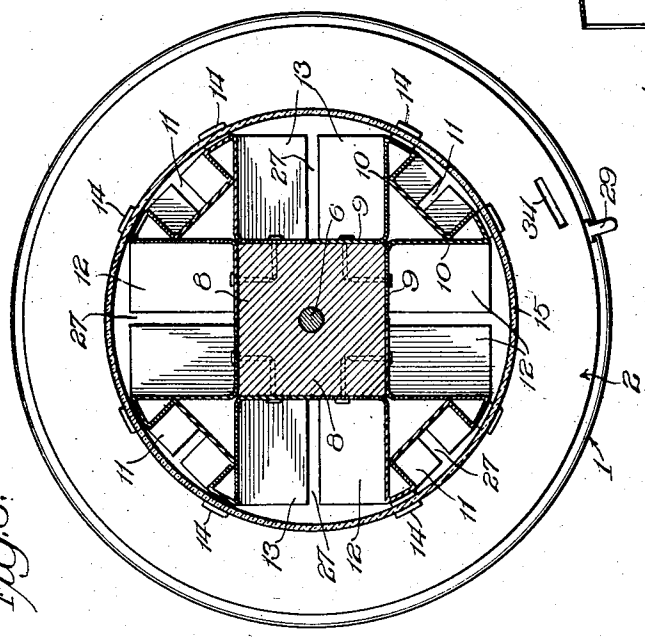


Fig. 3.

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UNITED STATES PATENT OFFICE.

ARTHUR BERNARD SIMON, OF CHICAGO, ILLINOIS.

VENDING DEVICE.

1,347,558. Specification of Letters Patent. Patented July 27, 1920.

Application filed November 6, 1919. Serial No. 336,037.

To all whom it may concern:

Be it known that I, ARTHUR BERNARD SIMON, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Vending Devices, of which the following is a full, clear, and exact description.

My invention relates to improvements in vending devices, and it consists in the combinations, constructions and arrangements herein described and claimed.

An object of my invention is to provide a vending device which is relatively simple in construction and operation, and is not liable to easily get out of order.

A further object of my invention is to provide a vending device in which packages or containers of different sizes may be used and in which an economy of space is effected, so that the capacity of a vending machine of good dimensions is materially increased over the ordinary vending machine.

A further object of my invention is to provide a vending machine which may be locked to prevent tampering, and in which the lock is concealed.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings, forming part of this application, in which—

Figure 1 is a side view of the device,

Fig. 2 is a vertical section,

Fig. 3 is a section along the line 3—3 of Fig. 2,

Fig. 4 is a section along the line 4—4 of Fig. 2, and

Fig. 5 is a detail perspective view of a portion of the device.

In carrying out my invention, I provide a base 1, upon which is mounted a casing portion 2. Centrally disposed on the base is a block or support 3 which is surmounted by ball bearings 4 for rotatably supporting a block 5. A shaft 6 has its lower end extending into a centrally disposed bore 7 in the block 3. The block 5 is secured to the shaft 6, and a block 8, similar to the block 5, is also secured to the shaft. These blocks, as will be seen from Fig. 3, are rectangular in shape.

In order to form vertically disposed compartments or pockets, I provide sheet metal members similar to that shown in Fig. 5. It will be observed that these members have a rear portion 9, and a forwardly extending integral portion 10, which, at its forward edge, is bent back upon itself in irregular shape to form a smaller compartment 11, the opposite side of the member being bent in a similar manner. In the construction shown in the drawings, four of these metal members are used, and they are secured to the flat sides of the blocks 5 and 8, so as to form a series of large compartments 12, and smaller compartments 11 alternating with the larger compartments. The lower ends of the metal members are bent to provide a bottom portion 13, while integral lugs 14 are struck up from the metal at the bottom of the compartments, these lugs being for the purpose of holding a circular glass casing 15. The top of the compartments is covered by a removable top 16 which is preferably of wood, and which has an exterior lining 17 of metal or other suitable material. The shaft 6, as it will be observed, extends through the top 16, and is threaded at its upper end to receive a threaded securing member 18 on the inner side of a conical shaped cover 19. The shaft 6 is provided with an opening, by means of which a lock 20 may be secured in position.

Referring now particularly to Fig. 4, it will be seen that the casing 2 has radially extending arms or bars 21, which extend to the central support 3. The latter is provided with a slot 22 arranged to receive a slidable bar 23, having an extension 24 disposed in a slot 25 in one of the radially extending arms 21. A spring 26 (see Fig. 2) holds the bar 23 in the position, shown in Fig. 2, in which it is withdrawn into the slot 22, so as to permit the free rotation of the compartments about the central axis. Each compartment has a slot 27 at its bottom arranged to register with the bar 23. The extension 24 is connected by a cable 28 with a slidable arm 29 disposed in a slot 30 in the front of the casing, a pulley 31 being provided, as shown in Fig. 2.

The cable or flexible cord 28 passes through a slot 32 in the central support 3. At 33 I have shown a delivery chute, and at 34 (see Fig. 3) a coin slot. It will be understood that the device is brought into operative condition by depositing the coin in the slot 34, but the coin control feature

forms no part of the present invention, and I have, therefore, omitted a description of the same, since the invention lies in the casing and in the means of ejecting a package or article from any of the compartments of the casing.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood. The vending device is placed in any suitable position, as, for instance, on a counter. The machine is charged by removing the cover 19 and the top 16, and filling the compartments with articles or packages. The top having been replaced, the lock 20 is now attached, and the cover 19 is secured to the rod 6 and turned so as to screw it firmly to the shaft.

In order to operate the device, the casing is turned so as to bring the particular compartment desired into registration with the chute 32 and with the operating bar 23. The coin is now deposited and the arm 29 pushed downwardly. This will cause the sliding bar to move forwardly, pushing the lowermost package before it, the bar entering the slot 27 in the compartment. The article passes down the chute and may be removed. On releasing the arm 29, the spring 26 will retract the bar 23 to its normal position, shown in Fig. 2, where it will be out of the way of the revolving casing.

The device is simple in construction, has relatively few parts, and is not liable to easily get out of order.

I claim:

1. A vending machine comprising a base, a central support secured thereto, said support having a central guide bore, a vertically extending shaft having one end disposed within said guide bore, rectangular blocks secured to the shaft, one of said blocks being arranged to bear on said support, and a plurality of sheet metal members bent to form series of relatively large compartments and series of smaller compartments alternating with the larger compartments, said sheet metal members being secured to said blocks.

2. A vending machine comprising a base, a central support secured thereto, said support having a central guide bore, a vertically extending shaft having one end disposed within said guide bore, rectangular blocks secured to the shaft, one of said blocks being arranged to bear on said support, a plurality of sheet metal members bent to form series of relatively large compartments and series of smaller compartments alternating with the larger compartments, said sheet metal members being secured to said blocks, and a circular glass case surrounding said compartments.

3. A vending machine comprising a base, a central support secured thereto, said support having a central guide bore, a vertically extending shaft having one end disposed within said guide bore, rectangular blocks secured to the shaft, one of said blocks being arranged to bear on said support, a plurality of sheet metal members bent to form series of relatively large compartments and series of smaller compartments alternating with the larger compartments, said sheet metal members being secured to said blocks, a circular glass case surrounding said compartments, a top for said compartments provided with an opening, said shaft having a portion arranged to extend through said opening, a cover connected with the end of the shaft, and locking means disposed underneath the cover and above the top.

4. A vending machine comprising a plurality of vertically extending compartments revoluble about a central axis, said compartments consisting of series of relatively large compartments and series of smaller compartments arranged to alternate therewith, a casing having a discharge opening disposed near the bottom of the compartments, each compartment being adapted to be brought into registration with said discharge opening, and means for forcing an article in the compartment out of said compartment through the discharge opening.

5. A vending machine comprising a plurality of vertically extending compartments revoluble about a central axis, said compartments consisting of series of relatively large compartments and series of smaller compartments, a casing having a discharge opening disposed near the bottom of the compartments, each compartment being adapted to be brought into registration with said discharge opening, means for forcing an article in the compartment out of said compartment through the discharge opening, said last named means comprising a slidable bar disposed centrally with respect to the compartments, and means for causing an outward movement of the bar to engage a package in the compartment which is in registration with the discharge opening.

6. In a vending machine, a base, a support carried by the base, said support having a slot, a bar carried in said slot, a plurality of concentrically arranged compartments rotatively disposed about a central axis, said compartments consisting of series of relatively large compartments and series of smaller compartments, each of said compartments being arranged to be brought into registration with said bar, and means for moving the bar to eject the lower-most package in the compartment.

ARTHUR BERNARD SIMON.