W. L. MOSER.

VENDING MACHINE.

APPLICATION FILED AUG. 5, 1920.

1,366,129.

Patented Jan. 18, 1921.

2 SHEETS—SHEET 1.

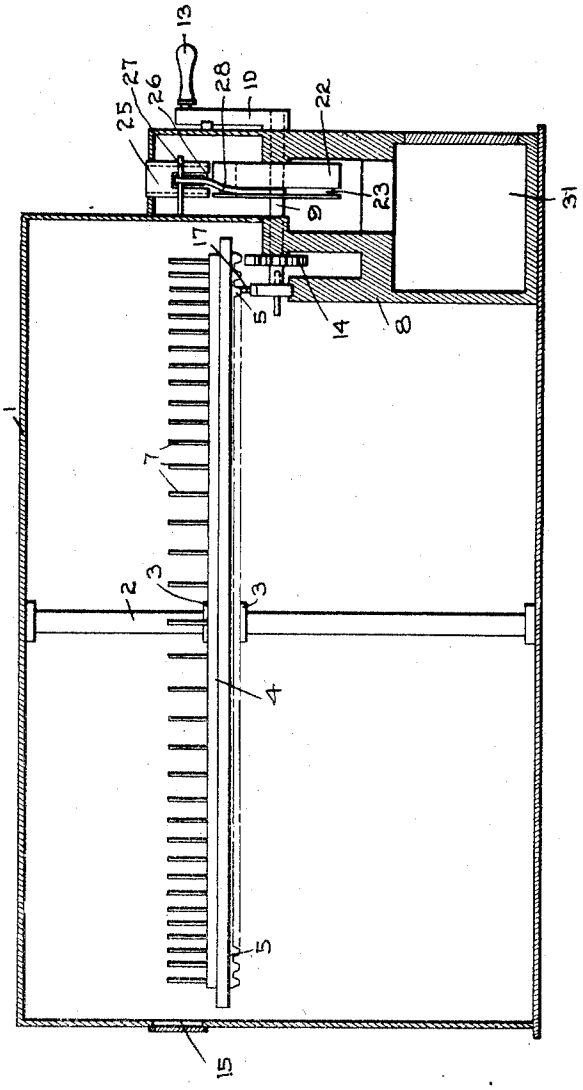


Fig. 1.

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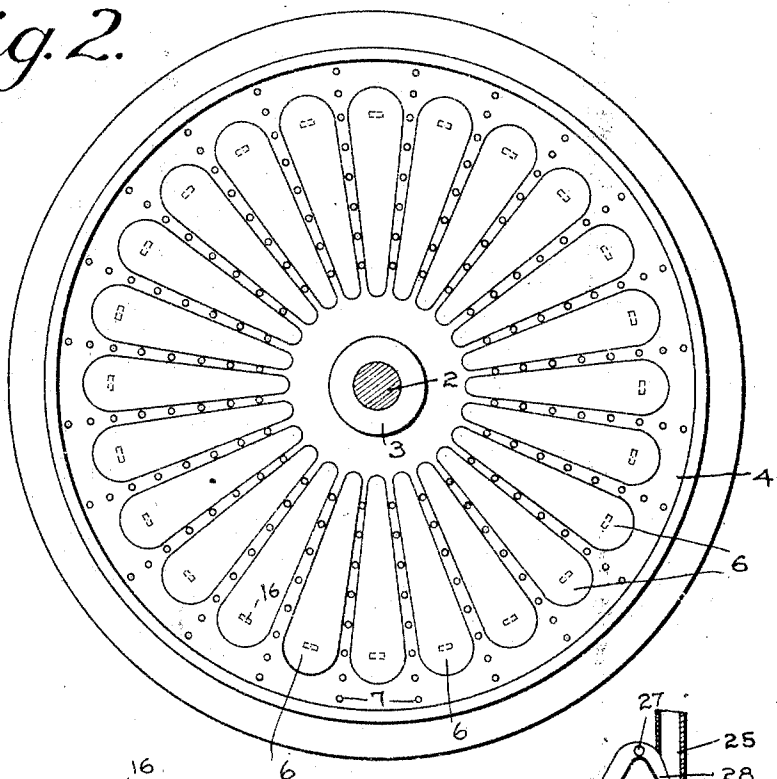
VENDING MACHINE.

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2 SHEETS—SHEET 2.

Fig. 2.



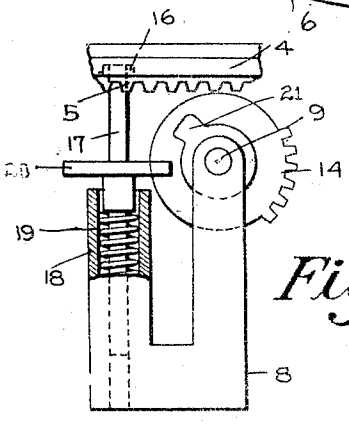


Fig. 3.

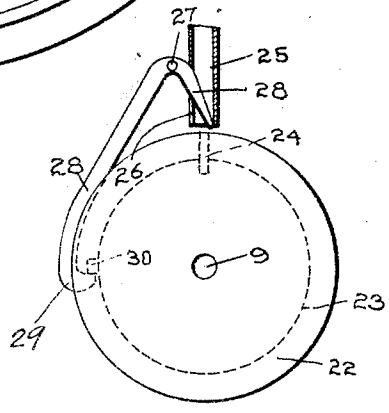
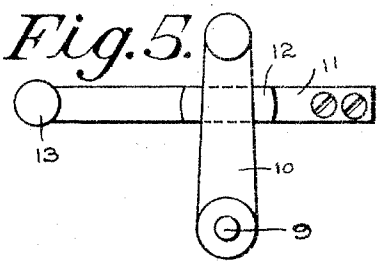


Fig. 4.

Fig. 5.



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UNITED STATES PATENT OFFICE.

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VENDING-MACHINE.

1,366,129. Specification of Letters Patent. Patented Jan. 18, 1921.

Application filed August 5, 1920. Serial No. 401,464.

To all whom it may concern:

Be it known that I, WILLIAM L. MOSER, a citizen of the United States, residing at Winston-Salem, in the county of Forsyth and State of North Carolina, have invented a new and useful Vending-Machine, of which the following is a specification.

This invention relates to vending machines, one of its objects being to provide a machine having one or more superposed rotary tables each of which is divided into compartments, there being coin controlled mechanism for releasing the selected table thereby to permit rotation of the table to bring one compartment in communication with an outlet.

A further object is to provide means for locking the table against rotation, said locking means being shifted automatically just prior to the rotation of the table and subsequent to the release of the coin controlled holding means.

Another object is to provide a machine of this character the parts of which are simple, compact and efficient and can be manufactured cheaply.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings—

Figure 1 is a section through a machine embodying the present improvements and utilizing a single rotary table.

Fig. 2 is a plan view of the table.

Fig. 3 is a view partly in section and partly in elevation of the table locking and unlocking mechanism.

Fig. 4 is a view partly in section and partly in elevation of the coin controlled holding means.

Fig. 5 is a detail view of the operating crank.

Referring to the figures by characters of reference 1 designates a housing in which is arranged a vertical shaft 2 which is stationary. This shaft is provided with superposed collars 3 between which is mounted a rotary circular table 4 having a gear 5 upon its lower face close to the periphery thereof. The upper surface of the table has radial recesses 6 formed therein and between the recesses are partitions which can be in the form of radial rows of upstanding pins 7 or can be of any other construction desired. Each of the compartments formed between the partitions and above the recesses 6 is adapted to hold the articles to be dispensed and these articles can be fruit, tobacco, or anything else small enough to be held within the compartment.

Mounted within a suitable supporting structure 8 projecting into the casing is a radial shaft 9 adapted to be rotated by a crank 10 or the like located outside of the housing and which crank is held normally in a predetermined position by a spring strip 11 fastened to the housing and provided with outstanding lugs 12 between which the crank is adapted to extend. The strip 11 may be provided with a knob 13 by means of which it can be pressed back readily for the purpose of releasing the crank.

A mutiliated gear 14 is secured to the shaft 9 and is adapted, during the rotation of the shaft to engage the gear 5 and impart a predetermined movement to the table 4, such movement being sufficient to move one compartment away from an outlet opening 15 in the housing 1 and to bring another compartment into register with the outlet opening 15.

Formed in the lower surface of the table 4 under each of the compartments of the table is a recess 16 and any one of these recesses is designed to receive the upper end of a locking bolt 17 which is slidably mounted within a guide sleeve 18. A spring 19 is housed in the sleeve and serves to hold the bolt 17 pressed upwardly against the table. A collar 20 is carried by the bolt and projects into the path of a shifting cam 21 secured to and rotating with the shaft 9.

A disk 22 is secured to the shaft 9 and rotates therewith, this disk being provided adjacent one face with an annular groove 23. A radial slot 24 is formed in the disk and is adapted during each rotation of the shaft, to come into register with a coin chute 25 opening through the casing.

A slot 26 is formed in one face of the coin chute and adjacent thereto is a pivot pin 27

on which is mounted a locking lever 28. One arm of this lever projects through the slot 26 so as to extend across the passage in the coin chute while the other arm of the lever is offset laterally and terminates in a hook 29 which normally projects into the groove 23, there being a stop lug 30 in the groove for engaging the hook and holding the disk 22 against rotation.

A coin box 31 is preferably located under the disk 22 as shown.

Under normal conditions the table is locked against rotation by the bolt 17. In view of the fact that the lug 30 engages the hook 29 the shaft 9 cannot be rotated in the direction necessary to move the cam 21 downwardly onto the collar 20. Consequently it becomes impossible to actuate the mechanism for the purpose of bringing a filled compartment into register with the outlet opening 15. When a proper coin is inserted into the chute 25, however, it will come against the end of lever 28 and swing the lever laterally so as to move the hook 29 out of the path of the lug 30. At the same time the coin will gravitate into the slot 24, the upper end of the coin remaining in engagement with the end of the lever 28. By now pressing inwardly on the strip 11 the crank 10 will be released and by rotating the crank in a counterclockwise direction the coin in the slot 24 will push past the end of the lever 28 and the lug 30 will move past the hook 29 after which the lever will automatically reset. As the hook 29 is adjacent one face of the disk, it is out of the path of the projecting portion of the coin and will not be engaged thereby. As the shaft 9 continues to rotate the cam 21 will come against the collar 20 and depress the bolt 17 and, while this bolt is held depressed the mutilated gear will engage the gear 5 and rotate the table the width of one compartment, thus bringing a filled compartment opposite the opening 15.

At this time the gears will move out of mesh and the bolt 17 which has already been released, will spring up into the recess or pocket 16 in line therewith so that the table will be locked against further movement.

As the coin moves downwardly with the disk 22 it will slide therefrom into the box 31.

What is claimed is:

1. The combination with a table mounted for rotation, and means on the table for dividing the same into compartments opening at the periphery of the table, of a shaft, means for rotating the shaft, means for engaging the table to hold the same with any one of the compartments in a predetermined position, means operated by the shaft and engaging the table for imparting a step by step rotation to the table, and means operated by the shaft for releasing the table just prior to each rotation thereof.

2. The combination with a table mounted for rotation and means on the table for dividing the same into radial compartments opening outwardly, and a gear revoluble with the table, of a shaft, means for rotating the shaft, a spring pressed bolt for engaging the table to hold the same with any one of the compartments in a predetermined position, a mutilated gear upon the shaft for engaging the gear on the table, and means revoluble with the shaft for operating the bolt to release the table.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM L. MOSER.

Witnesses:
E. L. PFOHL,
J. M. DEAN.