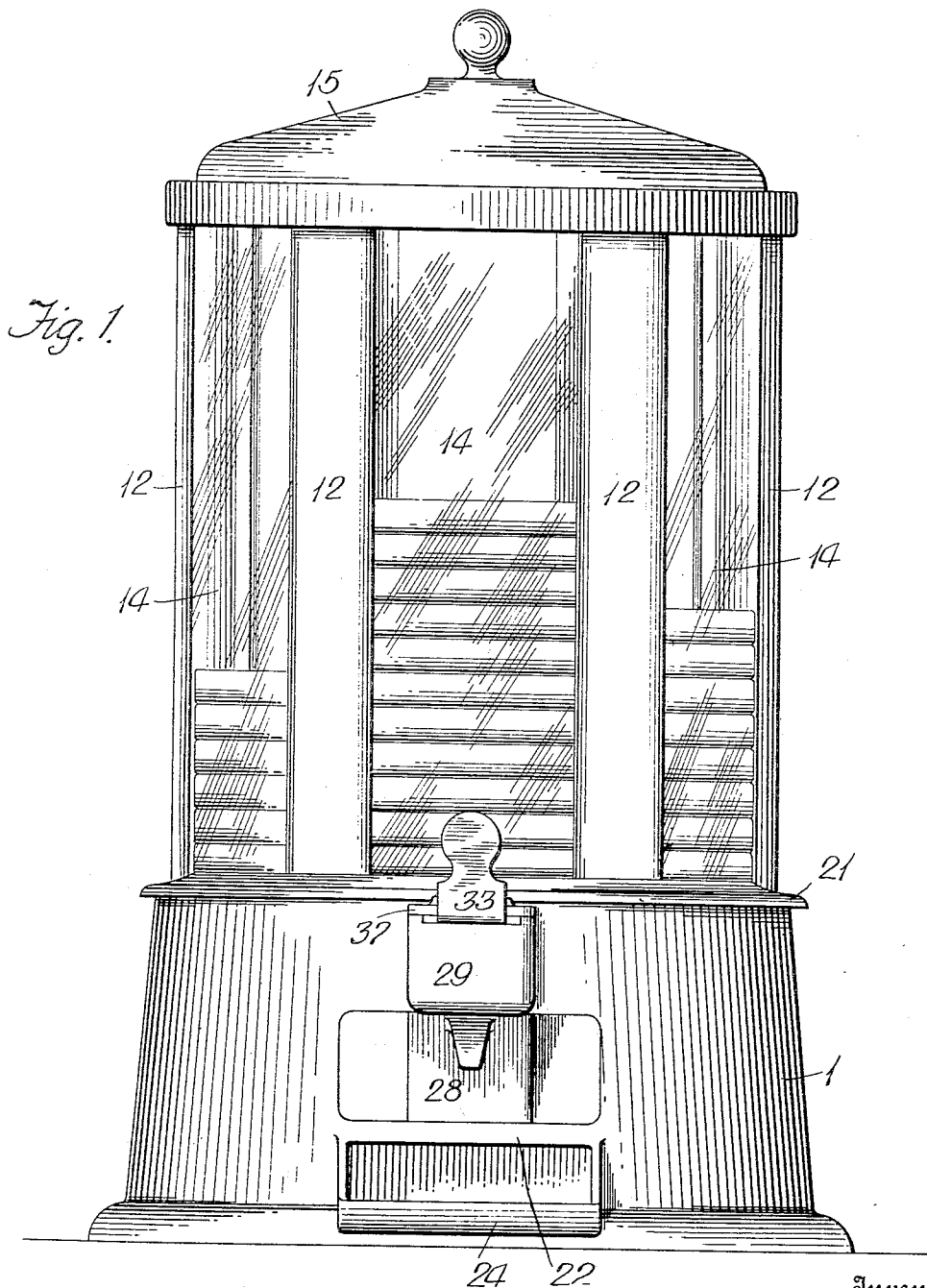


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APPLICATION FILED FEB. 24, 1914.

1,121,804.

Patented Dec. 22, 1914.

2 SHEETS-SHEET 1.



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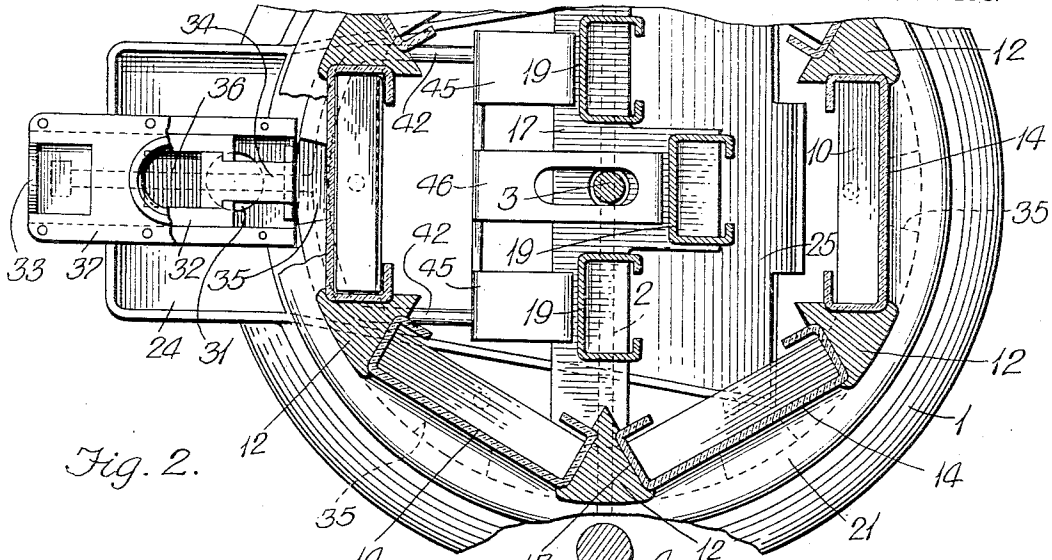


Fig. 2.

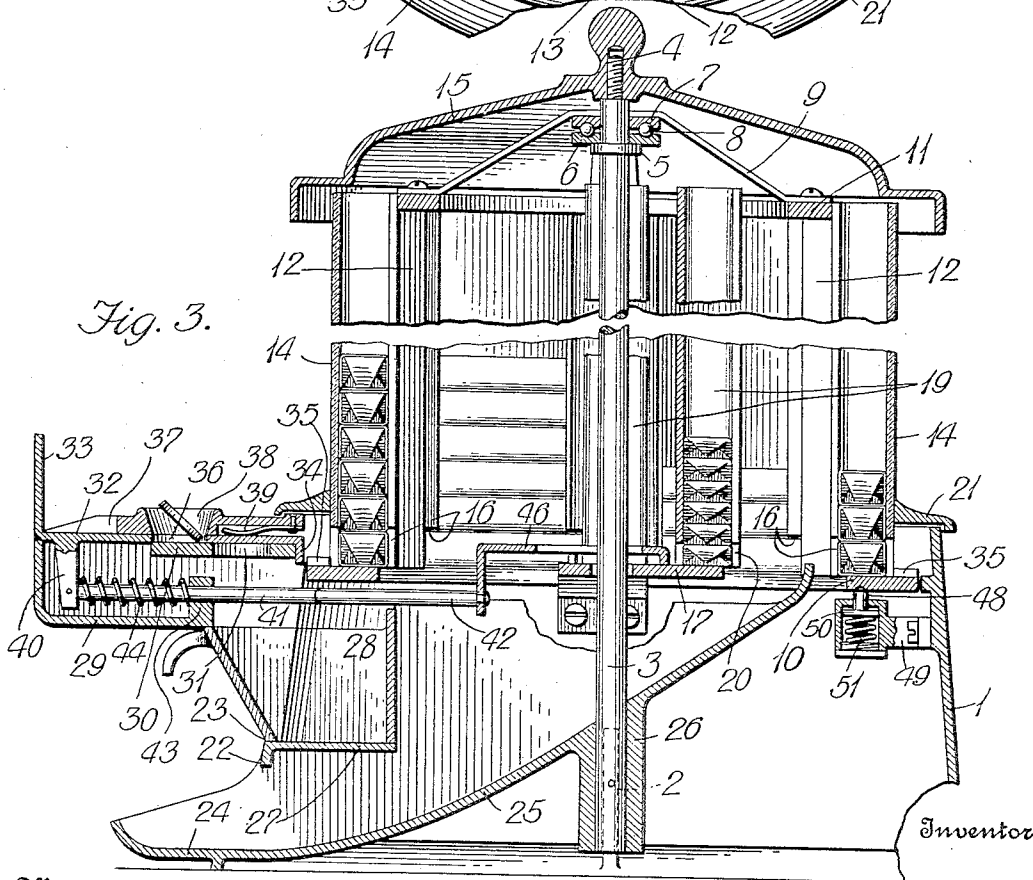


Fig. 3.

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# UNITED STATES PATENT OFFICE.

JOHN COULSON, OF DETROIT, MICHIGAN.

## GUM-VENDING MACHINE

1,121,804.

Specification of Letters Patent. Patented Dec. 22, 1914.

Application filed February 24, 1914. Serial No. 820,450.

*To all whom it may concern:*

Be it known that I, JOHN COULSON, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Gum-Vending Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to a vending machine, and the primary object of my invention is to provide a machine wherein simple and effective means are utilized, in a manner as hereinafter set forth, for simultaneously dispensing a product and a sample thereof, the machine being especially designed for a confection, as candies and chewing gum.

20 Another object of this invention is to provide a vending machine embodying a revoluble magazine holder for products or commodities adapted to be dispensed by depositing coins in the machine, also stationary magazines for delivering samples of the product, specimens of certain commodities, or advertising matter simultaneous with the delivery of products from the machine.

30 A further object of this invention is to provide a durable and compact vending machine having a plurality of magazines for various kinds of merchandise and the arrangement of the magazines is such that a prospective purchaser can readily observe the various kinds of merchandise within the machine, position the magazine for delivery purposes, and then manually actuating a coin controlled mechanism to deliver an article of merchandise.

40 With the above and other objects in view the invention resides in the novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

45 Reference will now be had to the drawings, wherein—

50 Figure 1 is a front elevation of the vending machine; Fig. 2 is a horizontal sectional view of a portion of the same partly broken away, and Fig. 3 is a vertical cross sectional view of the machine partly broken away.

55 In describing my invention by aid of the views above referred to, I desire to point out that I intend said views as merely illustrative of an example whereby my invention may be applied in practice, and I do not limit

myself to the precise construction and arrangement of parts shown. The following description is therefore to be broadly construed as including substitute arrangements and constructions which are the obvious equivalent of those shown.

60 In the drawing, 1 denotes a frusto-conical shaped hollow base provided with a transverse spider 2 in which is mounted a mast or upright 3 having the upper end thereof provided with a screw threaded stem 4. The upright 3, adjacent to the upper end thereof, has a collar 5 supporting an annular bearing 6 and arranged above said bearing and encircling said upright is a revoluble bearing 7. The bearings 6 and 7 have the confronting faces thereof provided with ball races for anti-frictional balls 8, and said revoluble bearing has outriggers or hangers 9 supporting a magazine holder. The magazine holder comprises a bottom ring 10, a top ring 11, spaced vertical frames 12 connecting said rings. The vertical frames 12 are triangular in cross section and the confronting faces of said frames are provided with vertical grooves to receive the side edges of channel shaped magazines 14 that are vertically disposed between the frames with the upper ends thereof open and the lower ends thereof closed and supported by the bottom ring 10. The magazines are preferably made of a vitreous material, as glass, whereby the contents thereof can be readily observed, thus enabling a prospective purchaser to revolve the magazine holder and correctly position a magazine whereby the contents or a portion of the contents can be ejected therefrom. The upper open ends of the magazines permit of merchandise being easily placed therein, and mounted upon the stem 4 of the upright 3 is a cover 15 that closes the upper ends of the magazines and prevents merchandise from being surreptitiously removed therefrom. The lower inner and outer walls of the magazine are provided with openings 16 of sufficient size to allow merchandise to be ejected inwardly and off of the bottom ring 10.

105 The base 1 is provided with a transverse support 17 having an opening 18 providing clearance for the upright 3. The support 17 is in substantially the same plane as the bottom ring 10 of the magazine holder and arranged upon said support are a plurality of vertical magazines 19 constructed similar to the magazines 14, with the exception that

these magazines can be made of other material than glass and are smaller in cross section than the magazines 14. The magazines 19 are primarily designed for holding a sample or small quantities of the merchandise contained within the magazines 14, and the lower ends of the magazines 19 are provided with openings 20 whereby samples can be ejected from the same.

The base 1 extends above the bottom ring 10 and overhanging the upper edges of said base is a horizontal frame 21, carried by the vertical frames 12 and cooperating with said frames and the magazines in closing the upper end of the base. The base has the front wall thereof provided with openings 22 and 23 and formed integral with walls of the opening 22 is a tray 24 forming the lower end of an inclined chute 25 which extends upwardly in the base beneath the support 17 and the sample or auxiliary magazines carried thereby. The chute 25 has a central boss 26 surrounding the upright 3 and resting upon the spider 2.

Formed integral with the bottom wall of the opening 23 is a bracket 27 adapted to support a coin receptacle 28 having an open bottom or lower end which is normally closed by the bracket 27. Coins can be easily removed from the receptacle 28 by simply pulling outwardly upon the same, at which time the coins are deposited in the tray 24. Suitable means can be employed for holding or locking the coin receptacle upon the bracket 27.

Arranged above the coin receptacle and extending outwardly from the base 1 is a casing 29 suitably connected to the base or formed integral with the vertical walls of the opening 23. Within the upper part of the casing 29 is a coin plate 30 having an opening 31. Slidably mounted upon the coin plate 30 is a coin slide 32 having the outer end thereof terminating in a handle or lip 33 and the inner end thereof terminating in an ejector 34. The ejector 34 is adapted to ride or extend through guide ways 35 of the bottom ring 10 and impinge an article of merchandise in the lower end of a magazine, which must be correctly positioned relatively to the guide way before matter can be ejected therefrom.

The coin slide 32 has an opening 36 to receive a coin and said opening is adapted to register with the opening 31, when the slide 32 is shifted inwardly, whereby the coin will be deposited in the receptacle 28. The coin slide 32 is retained upon the coin plate 30 by a cover plate 37 suitably secured to the casing 29, said cover plate having a coin opening 38 that permits of a coin being placed in the opening 36 of the slide 32. The inner side of the cover plate 37 has a flat compression spring 39 adapted to engage a coin shifted above the opening 31

and force said coin through the opening into the coin receptacle.

The coin slide 32 is provided with a depending lug 40 and connected to said lug is the shank 41 of a horizontal fork or yoke 42, said shank extending through a bearing 43 within the casing 29. Encircling the shank 41, between the bearing 43 and the depending lug 40 is a coiled compression spring 44, said spring retaining the coin slide 32 normally extended in position for operation. The fork or yoke 42 supports ejectors 45 and 46, the latter being slotted to provide clearance for the upright 3 of the machine. The ejectors 45 and 46 correspond in number to the sample or auxiliary magazines 19 and said ejectors are adapted to enter said magazines and force samples from the lower ends thereof, similar to the ejector 34 entering one of the magazines 14.

To permit of the revoluble magazine holder being correctly positioned whereby merchandise can be removed from one of the magazines thereof, the bottom side of the ring 10 is provided with a recess or socket beneath each magazine and adapted to engage in said recesses or sockets is a detent 48 movably supported by an inwardly projecting bracket 49, carried by the base 1. The detent 48 has a collar 50 and encircling said detent, between the collar 50 and the bracket 49, is a coiled compression spring 51 which holds the detent normally in engagement with the bottom ring 10 whereby it will ride into one of the sockets 47 and temporarily hold the revoluble magazine holder in the position to which it is adjusted.

Packages of chewing gum are shown in connection with the machine, the magazines 14 containing large packages of one or more brands and the small auxiliary magazines 19 contain samples of the same or samples of other brands of chewing gum or merchandise. Selection having been made it is only necessary to revolve the magazine holder until the proper magazine is positioned in front of the coin controlling ejecting mechanism. By then placing a coin in the opening 36 of the coin slide 32, the slide can be pushed inwardly to eject a package of chewing gum from the magazine 14, and simultaneous with this operation the ejectors 45 and 46 remove samples from the magazines 19, said samples and the package of chewing gum being delivered to the tray 24 by the chute 25.

As in connection with all coin controlled mechanisms for vending machines provision is made whereby the coin slide 32 cannot be operated to eject packages of gum unless a coin is placed in said slide. This is accomplished by making the slide of two interlocked parts, as best shown in Fig. 2, the inner part being fixed relatively to the outer part by a coin positioned in the opening 36

between the parts of the slide. This coin controlled mechanism is simply a fair example of one of various types that can be used in connection with a vending machine.

5 What I claim is:

1. A vending machine comprising a horizontally revoluble magazine holder, stationary auxiliary magazines, and means adapted to simultaneously eject matter from a magazine of said holder and from said stationary magazine.

2. A vending machine comprising a revoluble magazine holder, a plurality of vertically disposed magazines carried thereby, stationary auxiliary magazines arranged within said holder, and means for simultaneously ejecting matter from one of said vertical magazines and all of said auxiliary magazines.

3. A vending machine comprising a horizontally disposed revoluble magazine holder, a plurality of vertical magazines carried thereby, a plurality of stationary auxiliary magazines arranged within said holder, manually actuated ejectors adapted to simultaneously eject matter from said auxiliary magazines and one of the magazines of said holder.

4. A vending machine comprising a base, a revoluble magazine holder extending above said base, a plurality of vertical magazines carried thereby, a plurality of stationary auxiliary magazines arranged within said holder, and means adapted to simultaneously eject matter from said auxiliary magazines and one of the magazines of said holder.

5. A vending machine comprising a base, a horizontally disposed revoluble magazine holder extending above said base, a plurality of spaced vertical magazines carried thereby, a plurality of stationary auxiliary magazines arranged within said holder, and manually actuated means adapted to simultaneously eject matter from said auxiliary magazines and from one of said vertical magazines.

6. A vending machine comprising a base, a horizontally disposed revoluble magazine holder extending above said base, a plurality of spaced vertical magazines carried thereby, a plurality of stationary auxiliary magazines arranged within said holder, manually actuated means adapted to simul-

55 taneously eject matter from said auxiliary magazines and from one of said vertical magazines, and means carried by said base and adapted to engage said holder to retain said holder stationary and in position for the ejection of matter from one of the 60 magazines thereof.

7. A vending machine comprising a base, a horizontally disposed revoluble magazine holder extending above said base, a plurality of spaced vertical magazines carried 65 thereby, stationary auxiliary magazines arranged within said holder, a chute within said base below said stationary magazines and terminating at a wall of said base, and manually actuated means adapted to simultaneously eject matter from said auxiliary 70 magazines and one of the magazines of said holder.

8. A vending machine comprising a base, a horizontally disposed revoluble magazine 75 holder extending above said base, a plurality of spaced vertical magazines carried thereby, stationary auxiliary magazines arranged within said holder, a chute within said base below said stationary magazines and terminating at a wall of said base, manually 80 actuated means adapted to simultaneously eject matter from said auxiliary magazines and one of the magazines of said holder, and means within said base engaging said magazine holder adapted to hold said holder 85 stationary during ejection of matter from a magazine thereof.

9. In a vending machine, a base, a horizontally disposed revoluble magazine holder 90 extending above said base, a plurality of vertically disposed magazines carried by said holder, stationary auxiliary magazines arranged within said holder, a chute arranged in said base below said magazines 95 and terminating at a wall of said base, and horizontally disposed manually actuated ejectors adapted to simultaneously enter the lower ends of said auxiliary magazines and the lower end of one of the magazines of 100 said holder for ejecting matter from said magazines into said chute.

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

JOHN COULSON.

Witnesses:

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G. E. McGRANN.