

March 19, 1929.

O. C. ROGERS

1,706,324

VENDING MACHINE

Filed March 24, 1927

2 Sheets-Sheet 1

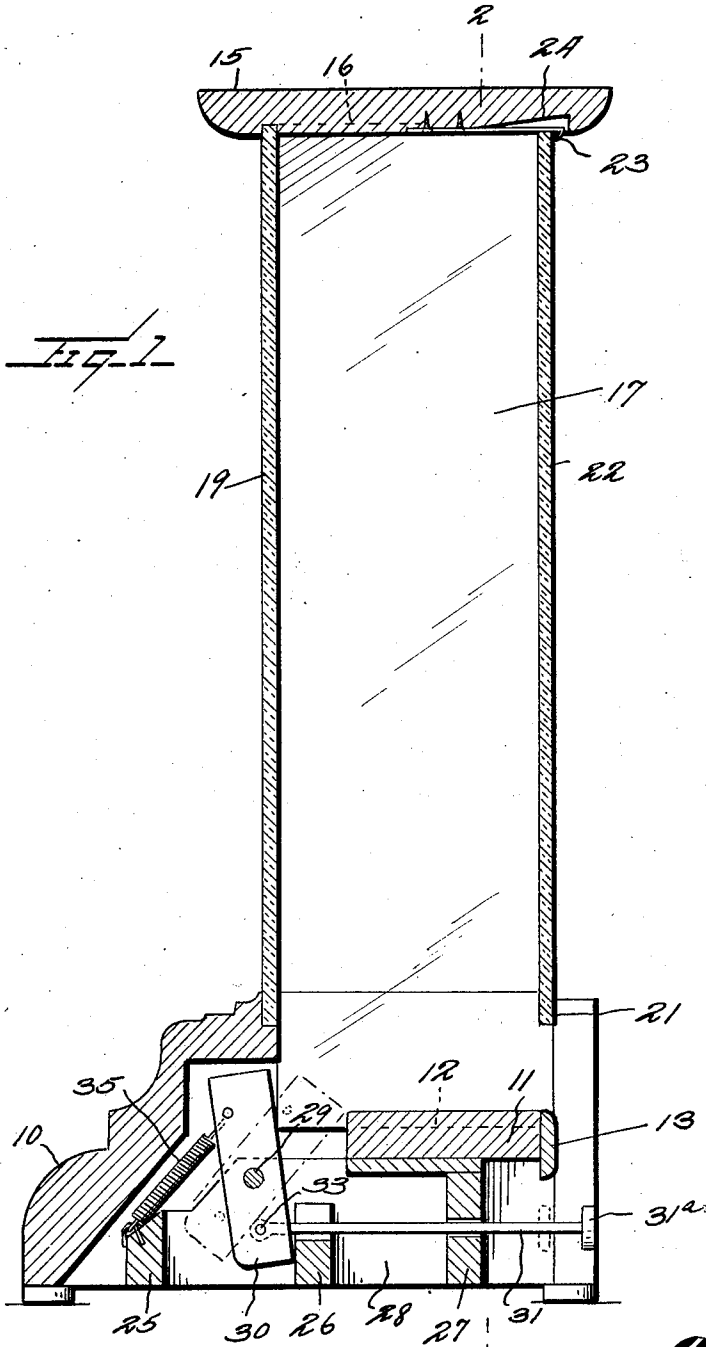
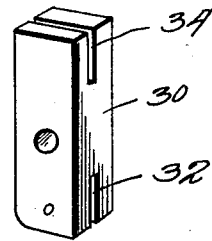


Fig. 4



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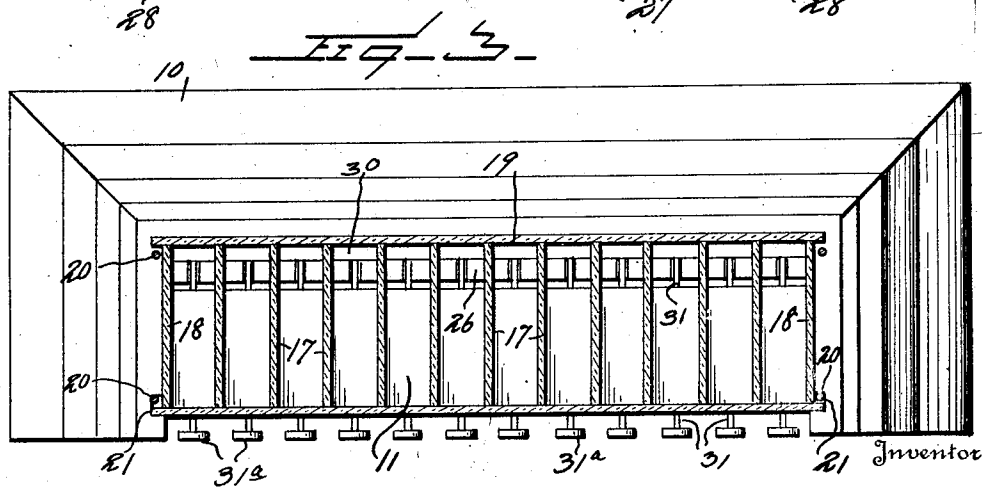
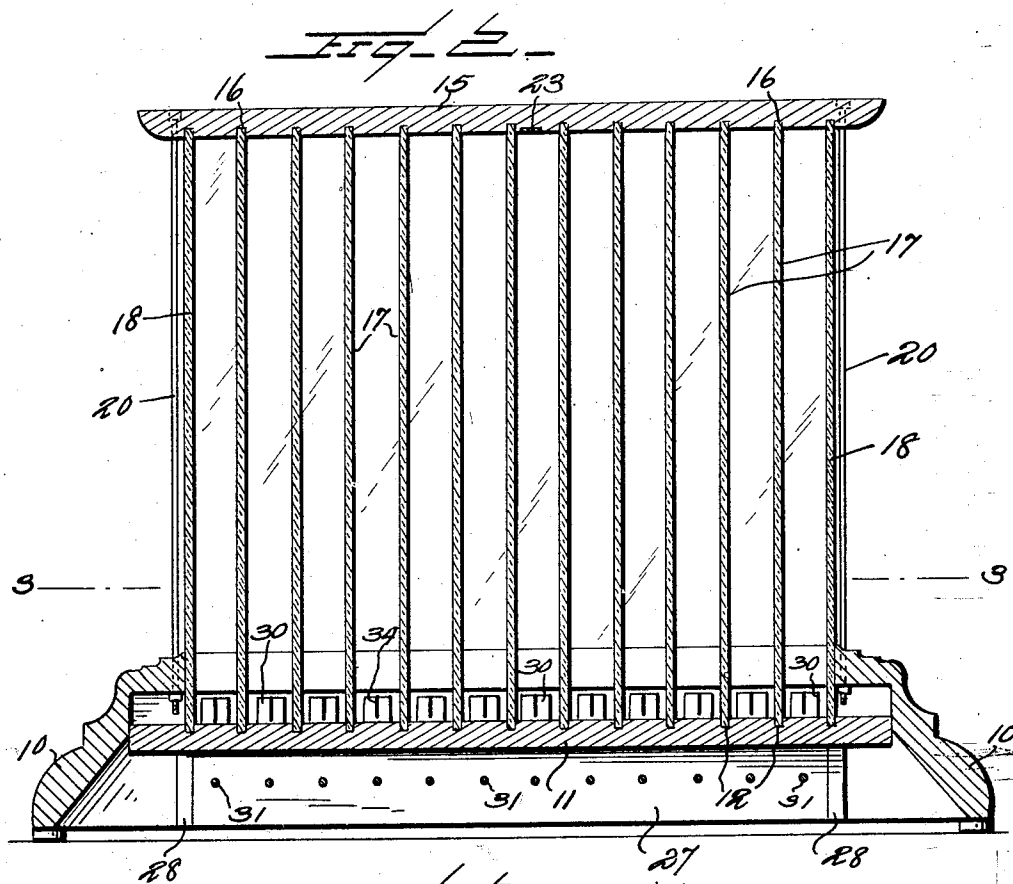
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

OSWALD C. ROGERS, OF CENTER, TEXAS.

VENDING MACHINE.

Application filed March 24, 1927. Serial No. 178,037.

This invention relates to vending machines and particularly to those vending machines wherein the article to be vended is displayed through a glass and in which the dealer removes the article indicated from the display case and passes it over to the purchaser.

The general object of this invention is to provide a vending machine in which all the various articles to be vended are displayed fully so that quite a large assortment of articles will be presented to the notice of intended purchasers and a further object is to provide a machine of this character with very simple means whereby the articles may be ejected one at a time through the rear of the machine so that the vendor can receive the article and hand it to the purchaser.

Other objects have to do with the details and arrangements of parts as will appear more fully hereinafter.

My invention is illustrated in the accompanying drawings wherein:—

Figure 1 is a vertical sectional view of a vending and display case constructed in accordance with my invention.

Figure 2 is a section on line 2—2 of Figure 1.

Figure 3 is a section on line 3—3 of Figure 2.

Figure 4 is a perspective view of one of the operating levers.

Referring to the drawings, 10 designates a more or less ornamental base which extends around three sides of the machine, that is across the front and the ends. Supported on this base above the bottom thereof is a floor 11 which is also somewhat lower than the top of this base. This floor is formed with transversely extending grooves 12 open at the front thereof but closed at the rear by means of the moulding 13. Disposed above the base and in any desired spaced relation thereto is a top 15 having grooves 16 to receive the vertical glass partitions 17 whose lower ends are disposed within said grooves. The end walls of the vending machine which are designated 18 are also of glass as is the front wall 19. These end walls rest upon the floor and at their upper ends are disposed in grooves 16 and the top 15. This top is rigidly secured to the base by the vertically extending rods 20 disposed at the corners of the display casing proper, these rods extending downward through the floor 13 through recesses 21

formed in the end walls of the base at the corners thereof. These recesses also support the ends of a glass plate 22 which forms the rear of the display compartment and has its lower edge supported in proper spaced relation to the floor so as to permit an article to be discharged from any one of the compartments defined by the partitions 17. The upper end of this glass plate 22 is held by a latch 23 which is movable upward into a slight recess 24 in the end face of the top so as to permit the glass plate 22 to be removed and the article-containing spaces filled. Attached to the base in any suitable manner and extending longitudinally thereof are three frame members 25, 26 and 27. These are held in spaced relation to each other by means of the transverse members 28. Extending through the member 28 is a pivot rod 29 and upon this pivot rod are mounted a plurality of actuated levers 30, one for each of the compartments defined by the partition 17. Operating through the members 26 and 27 are actuating rods 31 having push buttons 31^a on their rear ends. Each of the levers 30 is cleft as at 32 upon its lower end and each rod 31 extends into the cleft portion of the corresponding lever and is pivotally engaged therewith by means of a pin 33. The opposite end of each lever is cleft as at 34 and a contractile spring 35 is engaged at its upper end in this cleft 34 and attached thereto by a pin or other suitable means, the other end of this spring being attached to the longitudinal member 25. Thus the upper end of the lever is held retracted and the lower end of the lever forced against the member 26 by the corresponding spring 35. The floor 11 has its rear edge spaced from the upper ends of these levers 30 so that by forcing inward on the buttons 31^a, the levers may be projected against the action of the springs to eject articles from the article compartments; the action of each lever being sufficient to cause the sufficient projection of the article beyond the rear edge of the floor 11 so that the article may be grasped and withdrawn. The frame formed by the members 25, 26, 27 and 28 is engaged with the floor and the base in any suitable manner and preferably the base is provided with cushioned feet so that the dispensing device will not mar a show case.

The operation of this mechanism will be obvious from what has gone before. Whenever an article is to be vended, the proper

button 31^a is pushed inward which causes the following movement of the corresponding lever and the ejection of the article to the dealer. All of the parts of this vending or dispensing machine except the glass plates
5 may be made of wood, metal or any other suitable material and this is particularly true of the ejectors. Machines of this character may be used for packages of gum,
10 mints, fruit drops, cigarettes, tobacco, handkerchiefs, tooth brushes, harmonicas, razor blades, and all small standard sized packages of merchandise. Of course, the display case or vending machine may be made
15 of different sizes with different sized compartments for the various articles to be vended and obviously minor modifications may be made without departing from the spirit of the invention as defined in the appended
20 claims.

I claim:—

1. A display and vending machine including a base, a floor carried thereby, vertically extending partitions mounted on said floor
25 and defining a plurality of vertical compartments, the floor terminating short of and below the rear wall, a top resting upon the partitions and a transparent front wall, a rear wall extending downward from the top
30 but having its lower edge spaced from the floor, a plurality of pivoted ejector levers operatively supported upon the base below the floor and having their upper ends extending upward into each compartment in the
35 space behind the floor and directly engaging the article to be vended, springs retracting the upper ends of these levers and a series

of plungers disposed below the floor operatively engaged at their inner edge with the lower ends of the levers and disposed in a horizontal plane, each of said plungers having a head at its rear end whereby it may be actuated. 40

2. A vending and display machine of the character described including a hollow base, 45 an article supporting floor mounted upon the base, a top supported in spaced relation to the base, vertical glass partitions resting at their lower ends upon said floor and at their upper ends engaging said top, a transparent front wall operatively engaging the base and top, a rear wall extending downward from the top nearly to the floor, said floor having its forward edge disposed even with said front wall but its rear end terminating short of the rear wall and located
55 below the same, a frame supported within the hollow base, a plurality of levers pivotally mounted upon the frame, there being a lever for each compartment, each lever at its upper end projecting slightly above the floor and into the space behind the rear edge of the floor of the corresponding compartment and pivotally engaging the article to be vended, springs engaged with said frame
60 and with the upper ends of the levers and acting to retract the levers, and a series of plungers mounted in said frame and engaging the lower ends of the levers and whereby any one of said levers may be operated. 70

In testimony whereof I hereunto affix my signature.

OSWALD C. ROGERS.