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VENDING MACHINE

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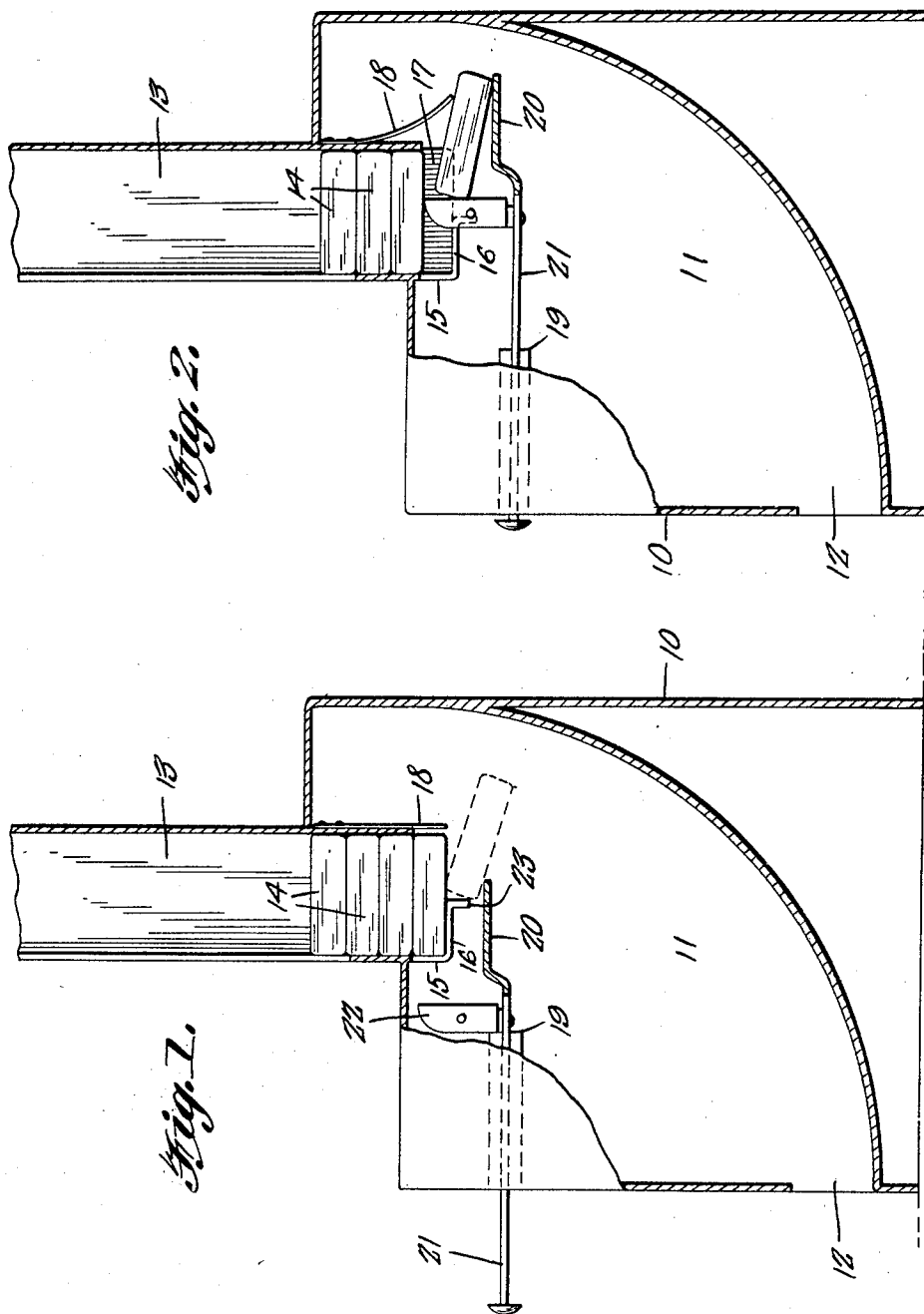


Fig. 2.

Fig. 1.

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WITNESS:

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VENDING MACHINE

Application filed May 13, 1929. Serial No. 362,636.

This invention relates to improvements in vending machines of the character disclosed in my copending applications 362,069 and 362,070 filed May 10, 1929, which have eventuated into patents 1,766,297 and 1,766,298.

The present invention, like the inventions disclosed in the applications referred to, has for an object the provision of means to prevent delivery of an article before operation of the machine is completed, so that the mechanism of the machine will be ready for the next operation, instead of being apparently inoperative due to the fact that the article was delivered and the mechanism stopped prior to the return of the parts to their normal positions.

Another object of the invention is the provision of means of the above character which are simple, positive and durable in construction and operation, and may be used in connection with coin controlled vending machines.

With the above and other objects in view, the invention further includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawing and pointed out in the appended claims.

In the drawing:—

Figure 1 is a sectional view illustrating the invention, with the parts in normal position.

Figure 2 is a like view showing the position of the parts during the operation of ejecting an article from the magazine.

Referring to the drawing in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates a housing within which is arranged a delivery compartment 11, the latter being provided with a discharge outlet 12. The magazine of the machine is indicated at 13 and is designed to contain articles 14 for transfer to the delivery compartment through the operation of ejecting means hereinafter described.

The bottom of the magazine is provided with a slot 15 which extends through a ledge 16, the latter supporting the articles 14. This ledge 16 extends part way across the bottom of the magazine so that an opening 17 is pro-

vided for the passage of articles from the magazine. A spring arm 18 yieldingly resists the discharge of articles from the magazine.

Slidably mounted within the housing 10 as indicated at 19 is a plate 20. This plate is normally positioned beneath the magazine and is provided with an operating rod 21, whereby the plate may be moved horizontally.

Carried by the plate is an ejector element 22, which, when the rod is moved inward, enters the slot 15 and engages the lowermost article or articles to force the same through the opening 17. As the plate 20 is arranged in advance of the ejector element 22, an article forced from the magazine will fall and remain upon this plate during the continued forward movement of the plate.

In order to deliver the article to the operator of the machine the plate must be retracted or moved in a reverse direction. When the plate is so moved, the article will engage a member 23 which depends from the bottom of the magazine 13 into the path of the package and the latter will be forced from the plate when the plate reaches its limit of outward movement as shown by the dotted lines in Figure 1 of the drawing, and will fall into the delivery compartment 11.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claims.

Having described the invention what is claimed is:—

1. In a vending machine, a housing, a delivery compartment within the housing, an article magazine, an ejector, means to operate the ejector to force articles from the magazine when the ejector is moved in one direction, a plate supported by said means and located in advance of the ejector, and movable therewith to receive such articles, and means located in the path of the ejected articles to remove the same from the plate, as the latter is being returned to its normal position.

2. In a vending machine, a housing, a delivery compartment within the housing, an

article magazine, an ejector, means to operate the ejector to force articles from the magazine when the ejector is moved in one direction, a plate supported by said means and located in advance of the ejector, and
5 movable therewith to receive the ejected articles, and means projecting downwardly from the magazine in the path of the articles to force the same from the plate as the latter is being returned to its normal position.

10 3. In a vending machine, a housing, a delivery compartment within the housing, an article magazine open at its bottom, a slotted ledge extending partly across the bottom, a
15 rod slidable within the housing beneath the magazine, an ejector rising from the rod and adapted to pass through the slot of the ledge to engage and singly remove an article from the magazine, a plate carried by the inner
20 end of the rod and located with relation to the ejector, to receive the article ejected from the magazine, and a member depending from the free edge of the ledge and located in the path of said article to remove the same
25 from the plate as the latter is being returned to its normal position.

4. In a vending machine, a housing, a delivery compartment within the housing, an article magazine open at its bottom, a slotted
30 ledge projecting part way across the bottom, a resilient element depending from the magazine and extending below the bottom thereof, an ejector, means to operate the ejector to force articles from the magazine against the
35 tension of said resilient element, when the ejector is moved in one direction, means operable with the ejector to receive such articles, and means located in the path of the ejected articles to remove the same from the
40 article receiving means as the latter is being returned to its normal position.

In testimony whereof I affix my signature.
GORDON B. MACKE.

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