

E. C. ANGELL.  
VENDING MACHINE.  
APPLICATION FILED OCT. 5, 1912.

1,065,100.

Patented June 17, 1913.

FIG. 1.

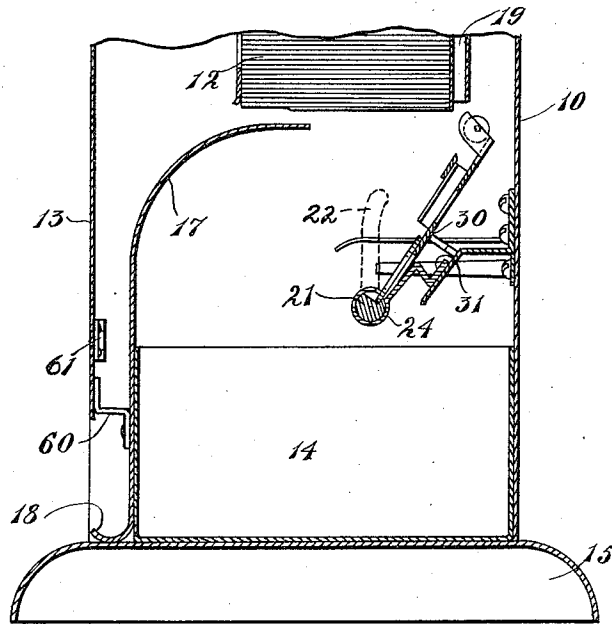
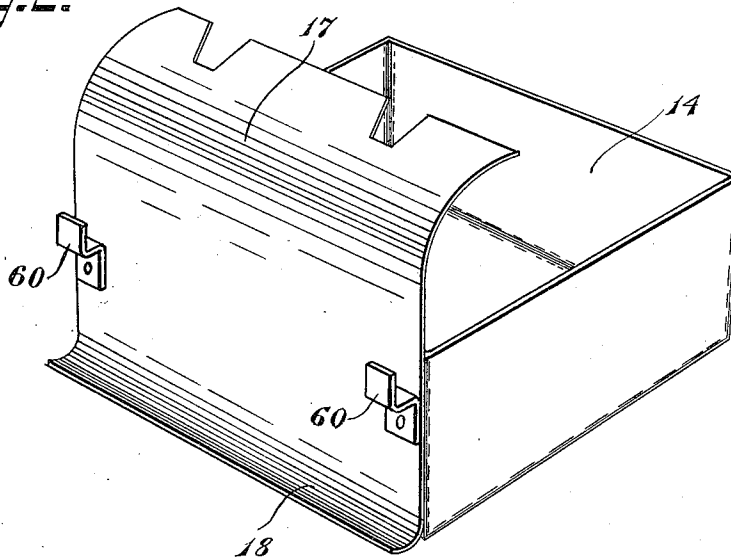


FIG. 2.



Witnesses;

Louis C. Badeau.

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Inventor,

Edward C. Angell

By his Attorney,

Clarence B. Hulston

# UNITED STATES PATENT OFFICE.

EDWARD C. ANGELL, OF NEW YORK, N. Y., ASSIGNOR TO UNITED STATES STAMP BOOK COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION.

## VENDING-MACHINE.

1,065,100.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed October 5, 1912. Serial No. 724,012.

*To all whom it may concern:*

Be it known that I, EDWARD C. ANGELL, a citizen of the United States, residing in New York city, county and State of New York, have invented a new and useful Improvement in Vending-Machines, of which the following is a specification.

This invention relates to coin-controlled vending mechanism and the object is to provide certain features of construction and operation making for simplicity in the structural parts and guarding the operating mechanism against tampering. To this end the invention comprises a combined structure constituting both a coin box and an article-delivery guide, and the relation of this structure to the magazine, the case and the ejecting mechanism, whereby an article-delivery chute is formed in a manner at once simple and affording protection against fraudulent removal of the goods or tampering with the ejecting mechanism.

In the accompanying drawings illustrating the invention: Figure 1 is a vertical section through the lower part of a vending machine embodying the invention; and Fig. 2 is a perspective view of the combined coin box and article-delivery guide.

The parts of the machine are inclosed in a suitable case 10, having a hinged front door 13, which terminates at its lower end at a distance above the base 15 so as to afford an article-delivery opening at the bottom of the machine. A suitable magazine 12 for holding a stack of articles is located in the case, and a coin chute is indicated at 19. The coin-operated ejecting mechanism is located below the magazine and may be of the construction shown in my co-pending application Serial No. 720,910, executed September 16, 1912; the same comprising a grooved rock-shaft 21 and a sleeve 24 which are connected by the deposited coin, together with a tilting ejector 30 which is actuated by an offset extension 31 on the sleeve 24. When the ejector is actuated it pushes the bottom article forward out of the stack and the same falls upon a curved plate or guide 17, which is secured to or forms part of the front wall of a coin box 14 and projects upward therefrom and is curved backward so as to terminate at or near the bottom of the magazine. This plate 17 coöperates with the front door 13 to form an article-delivery chute in which

the article removed from the magazine is guided to the delivery opening. The lower portion of the plate 17 is curved or bent upward as indicated at 18 so as to afford a rest for stopping the article so that it is not thrown out upon the ground.

The article chute formed by the front door 13 and the plate 17 is shallow from front to back and is substantially vertical so that tampering with the magazine or the ejecting mechanism by means of a wire introduced into the delivery opening is practically impossible. The ejecting mechanism, it will be observed, is effectually shielded behind the upper portion of the plate. The box 14 is located beneath the ejecting mechanism so as to receive the coins therefrom, and when it is removed by an authorized person the shield 17 is also removed, thus affording free access to the moving parts. The plate 17 is provided in front with projecting pieces 60, which serve as handles and also as spacers, determining the depth of the delivery chute and insuring that the box will be all the way back against the rear wall of the casing when the door is closed. They serve also as supports for the lower part of the door.

61 indicates one of the hinges of the door. 22 indicates a handle for operating the ejecting mechanism.

What is claimed as new is:

1. In a vending machine, the combination with a case having a delivery opening, a magazine, a coin chute, and coin-controlled article-ejecting mechanism, of a removable coin box to receive the coins and an article-guide leading from the magazine to said delivery opening, being secured to and extending upward from the front of said coin box and curved backward beneath the magazine.

2. In a vending machine, the combination of a magazine, coin-controlled article-ejecting mechanism below the magazine, a coin box movable in and out below the coin-controlled mechanism, and a curved wall extended upward from the front of said coin box in front of said mechanism and terminating adjacent the lower part of the magazine, constituting a guide for the ejected article and a guard covering the coin-controlled mechanism in front.

3. In a vending machine, the combination of a case having a front door terminating

above its bottom to form a delivery opening, a magazine in the case, coin-controlled mechanism below the magazine, a coin box movable in and out below the coin-controlled mechanism, and a front wall on the coin box extending upward at a short distance behind said front door to form a delivery chute and having its upper part curved backward and terminating adjacent the lower part of the magazine to constitute a guide for the ejected article, said wall covering the coin-controlled mechanism in front to prevent tampering therewith.

4. In a vending machine, the combination of a case having a front door, a magazine in the case, coin-controlled ejecting mechanism below the magazine, a removable coin box

below the coin-controlled magazine, a front wall on the coin box extending upward at a short distance behind said front door to form a delivery chute from the magazine and covering the coin-controlled mechanism in front, and spacing members on the front of said coin box contacting with said front door to position the box and determine the width of the delivery chute when the door is closed.

In witness whereof, I have hereunto set my hand this 18th day of September, 1912.

EDWARD C. ANGELL.

In presence of—

CLARENCE G. GALSTON,  
MAURICE HOTCHNER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."