No. 730,232. PATENTED JUNE 9, 1903.

A. A. CAILLE.

VENDING MACHINE.

APPLICATION FILED NOV. 1, 1902.

NO MODEL.

Fig. 1.

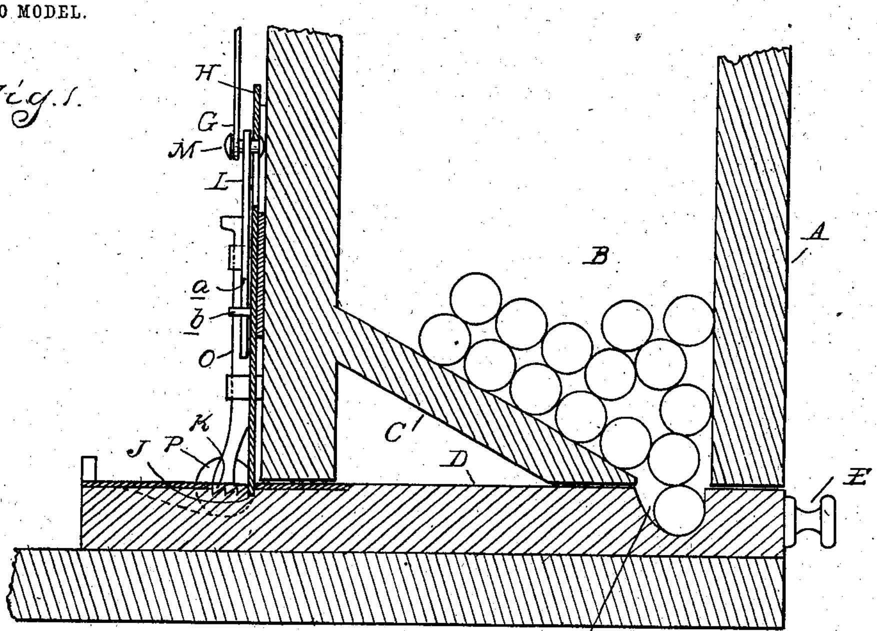


Fig. 2.

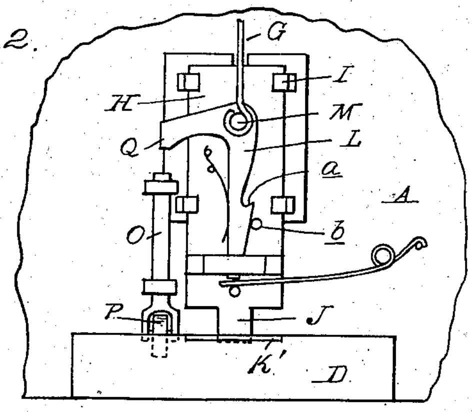


Fig. 3.

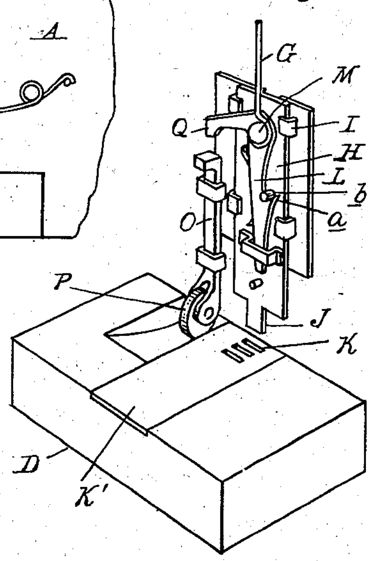
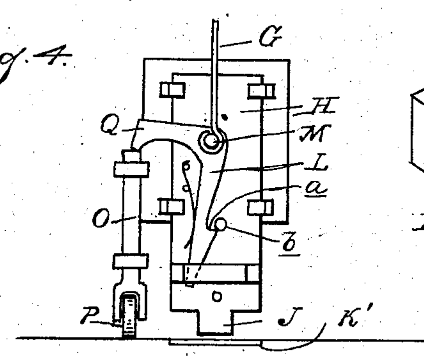


Fig. 4.



Witnesses

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No. 730,232. Patented June 9, 1903.

UNITED STATES PATENT OFFICE.

AUGUSTE ARTHUR CAILLE, OF DETROIT, MICHIGAN.

VENDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 730,232, dated June 9, 1903.

Application filed November 1, 1902. Serial No. 129,644. (No model.)

To all whom it may concern:

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

The invention relates to vending-machines, and more particularly to a construction especially designed for use as an auxiliary to other vending-machines or coin-controlling mechanisms.

It is the object of the invention to provide a simple construction of mechanism which upon the operation of the controlling member will permit the withdrawal of a single article and will then automatically lock to prevent other extractions until the machine is again operated.

The machine is adapted for various uses—as, for instance, in connection with music-boxes or other vending-machines which are coin-controlled. Inasmuch as the construction of the main machine forms no part of the present invention it will be neither shown nor further described.

In the drawings, Figure 1 is a vertical longitudinal section through the machine. Fig. 2 is a rear elevation illustrating the locking mechanism. Fig. 3 is a perspective view thereof. Fig. 4 is a view similar to Fig. 2, showing the parts in different position.

A is a casing inclosing a receptacle B for the article to be vended, which, as illustrated in the drawings, consists of cigars. These are arranged within the receptacle B, which is provided with an inclined bottom C, which will direct the cigars toward one side of the casing. Beneath the receptacle B is arranged a slide D, which extends out through a slot in the casing and is provided with an operating-handle E. The slide D has formed therein a pocket F, which in the normal position of the parts is in registration with an opening in the bottom of the receptacle B. Thus, whenever there are any cigars within the receptacle one will be caused to drop into the pocket F. To prevent the withdrawal of the slide except when the machine is properly operated, the following mechanism is provided:

G is a rod which is connected with the mechanism of the main machine. (Not shown.) This rod is adapted upon each operation of the main machine to be reciprocated vertically, the movement being first downward and then a return to the original position.

H is a slide secured in suitable bearings, such as I, and preferably arranged upon the rear face of the casing forming the receptacle B, but inclosed within the main casing of the machine. The lower end of the slide H is provided with a bolt J, adapted to engage with a keeper or locking-shoulder K, formed in the slide D. As shown, this keeper is formed by a slot in a metallic plate K′, secured to the upper face of the slide.

L is a catch-arm which is pivotally secured to the rod G by means of the pin M. This pin also preferably engages with a slotted bearing in the slide H, the length of the slot being sufficient to permit the full movement of the reciprocating rod G. The latch L is provided with a hook *a*, adapted upon the depression of the latch in the downward movement of the rod G to automatically engage with a pin *b* upon the slide H. This pin is so positioned that when the latch engages therewith and the rod G is again drawn upward the slide H will be actuated thereby, so as to withdraw the bolt J from the keeper K. This will permit the withdrawal of the slide D, so that the cigar contained within the pocket F may be removed. For again locking the slide D after a single operation the following mechanism is provided:

O is a rod or member slidingly secured in bearings adjacent to the slide H. The lower end of this rod rests upon the slide D and is preferably provided with an antifriction-roll P, having bearings thereon. The upper end of the rod O is arranged beneath a laterally-extending arm Q on the latch L, but the relative position of these parts is such that the reciprocation of the rod G and consequent movement of the latch L and arm Q will not bring the latter into engagement with the rod O. The lower end of the rod O engages with a cam formed on the slide D. This, as shown, is formed by cutting a recess in said slide,

the bottom of which is inclined so that in the normal position of the slide the rod O engages with the lowest part of the recess. When, however, the slide D is drawn outward, the roll P will be compelled to mount up the incline, and in so doing will raise the rod O, so as to engage with the arm Q and cause the latter to disengage the latch L from the pin *b*.

From the description above given it will be understood that when the rod G is reciprocated the bolt J will be withdrawn from engagement with the keeper K, and will be held in such position until the slide D is drawn outward. It will be further understood that the outward movement of this slide will again disengage the latch L from the pin *a*, so as to release the slide H and bolt J, and thus whenever the slide D is again returned to its original position the bolt will reëngage with the keeper.

What I claim as my invention is—

1. In a vending-machine, the combination with a reciprocatory controlling member, of a magazine for the goods to be vended, a slide beneath said magazine having a pocket for the reception of goods from said magazine, a bolt for locking said slide from movement and a latch upon said reciprocatory member adapted upon the actuation thereof to engage with said bolt and release the same from said slide to permit the withdrawal of the latter.

2. In a vending-machine, the combination with a reciprocatory controlling member, of a magazine for the goods, a slide in adjacence to said magazine and having a pocket for the reception of goods therefrom, bolt for locking said sliding frame from movement, a latch carried by said reciprocatory member adapted upon the actuation of the latter to engage with and retract said bolt, and means actuated by the withdrawal of said slide for disengaging said latch from said bolt.

3. In a vending-machine, the combination with a reciprocatory controlling member, of a magazine for the goods to be vended, a slide in adjacence to said magazine having a pocket for the reception of the goods, a bolt engaging in said slide to lock the same from movement, a latch secured to said reciprocatory member and arranged in adjacence to said bolt, a hook on said latch for engaging a lug on said bolt, a sliding member in adjacence to said bolt and bearing against said slide, a cam on said slide for actuating said sliding member upon the withdrawal of said slide and an arm on said latch projecting into the path of said sliding member whereby said latch will be disengaged from said lug to release said bolt upon the withdrawal of said slide.

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

AUGUSTE ARTHUR CAILLE.

Witnesses:

M. B. O'DOGHERTY,

O. G. ROBERTSON.