

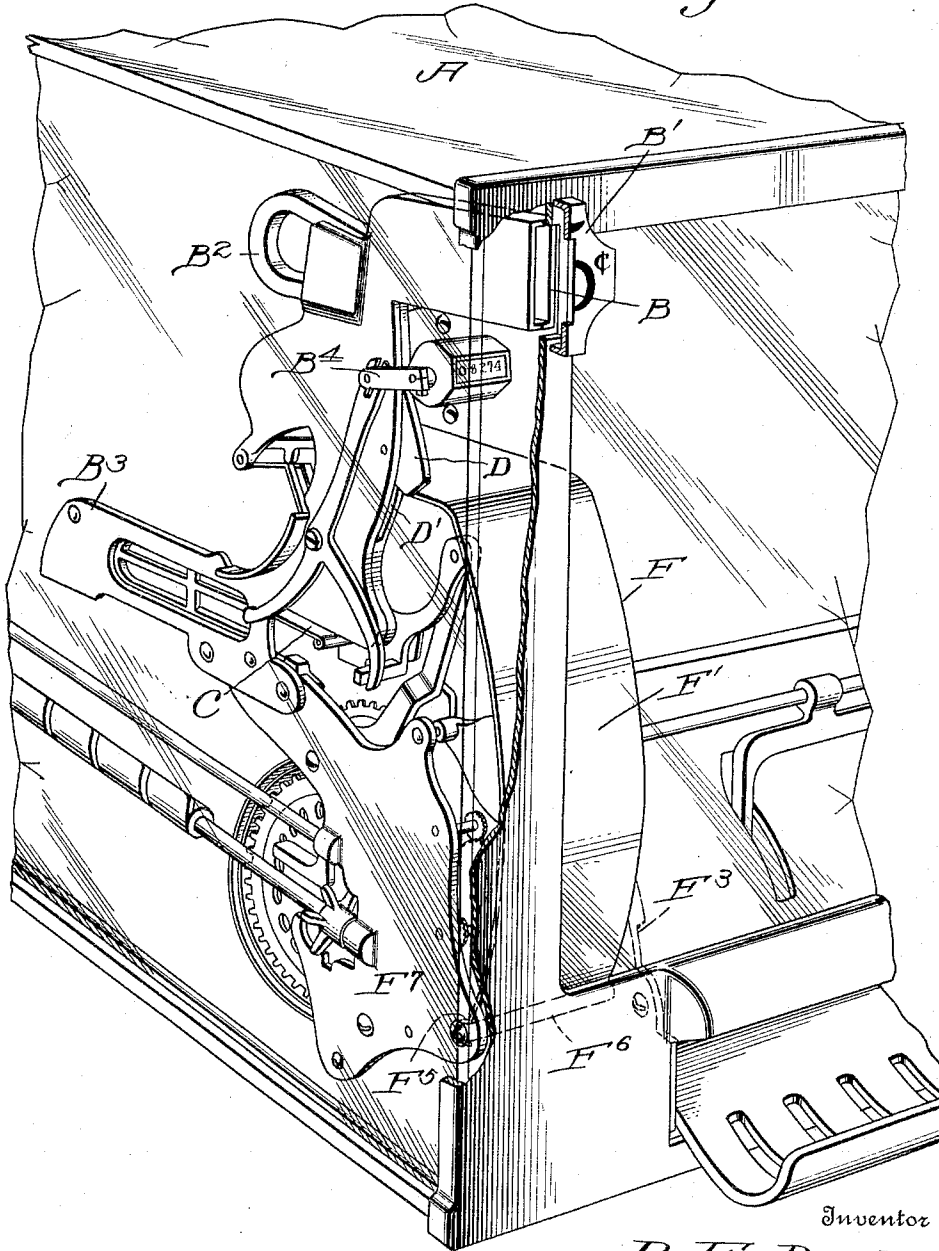
B. E. BYRD.
 VENDING MACHINE.
 APPLICATION FILED JAN. 6, 1912.

1,099,017.

Patented June 2, 1914.

4 SHEETS—SHEET 1.

Fig. 1.



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Witnesses

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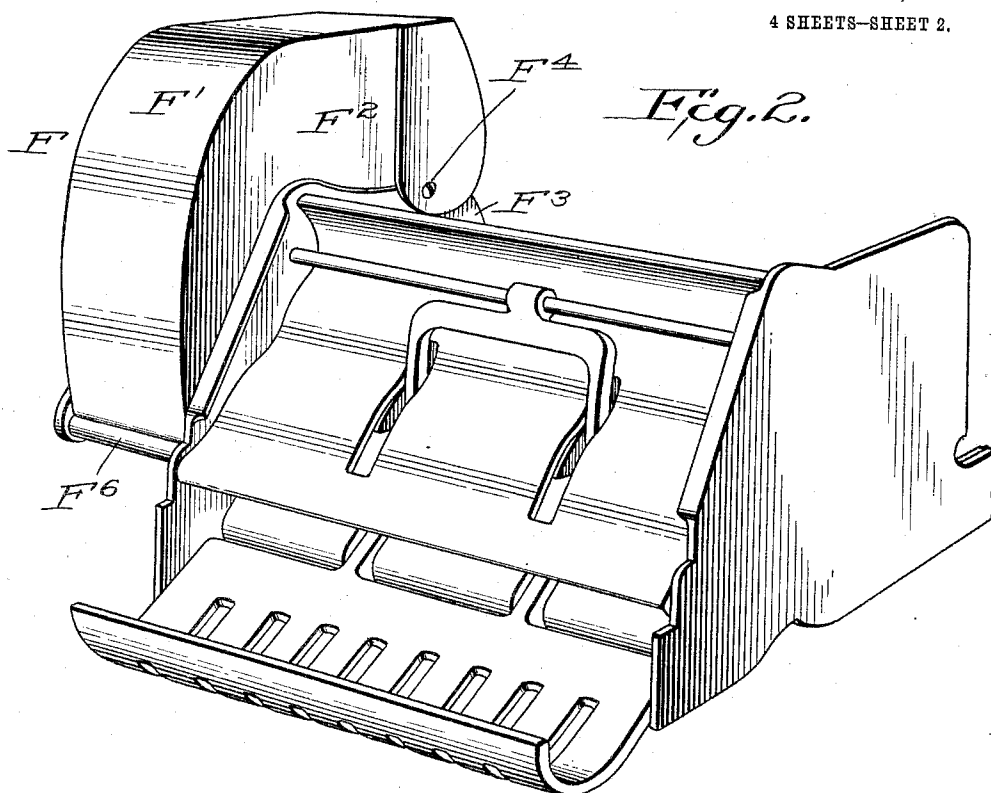
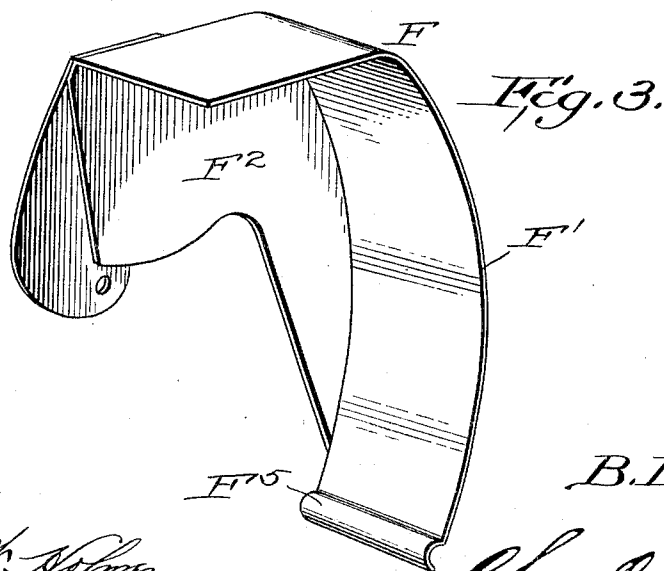
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4 SHEETS-SHEET 2.



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 4 SHEETS—SHEET 3.

Fig. 4.

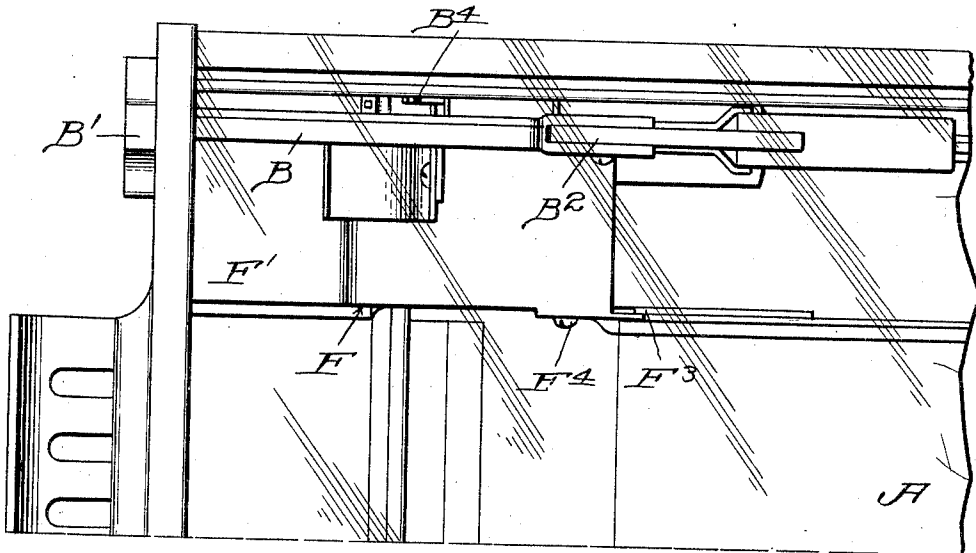
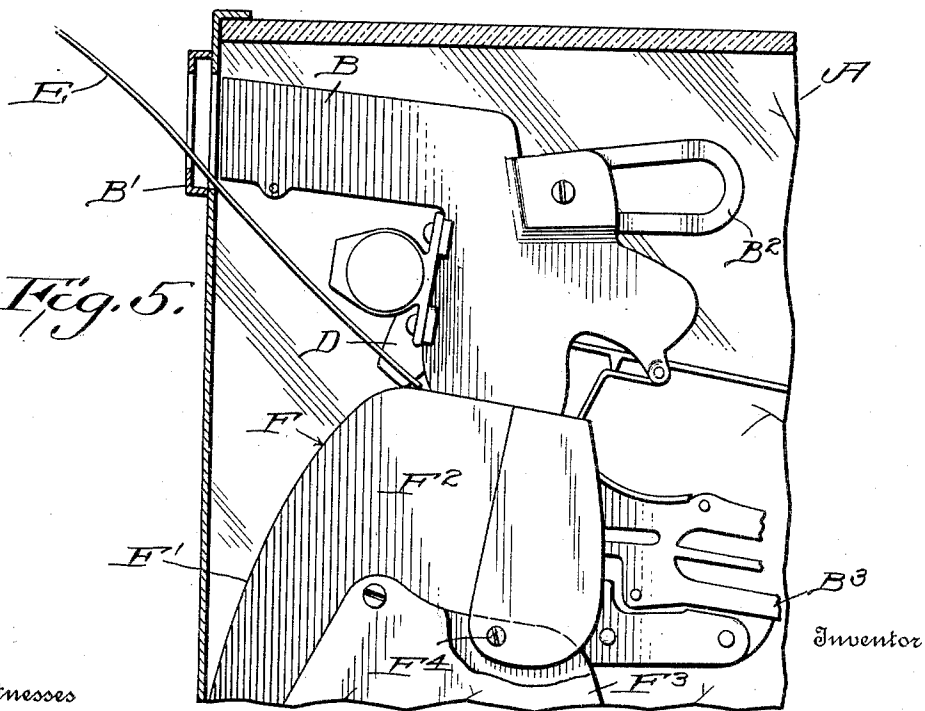


Fig. 5.



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 APPLICATION FILED JAN. 8, 1912.

1,099,017.

Patented June 2, 1914.

4 SHEETS—SHEET 4.

Fig. 6.

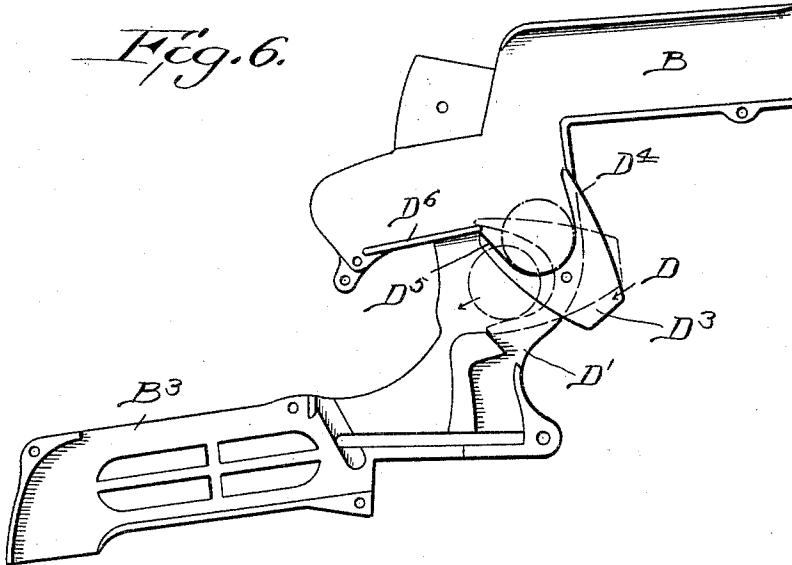


Fig. 8.

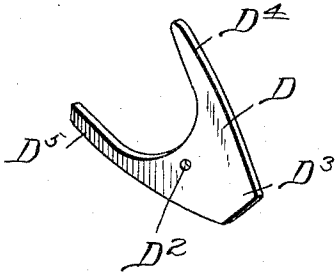
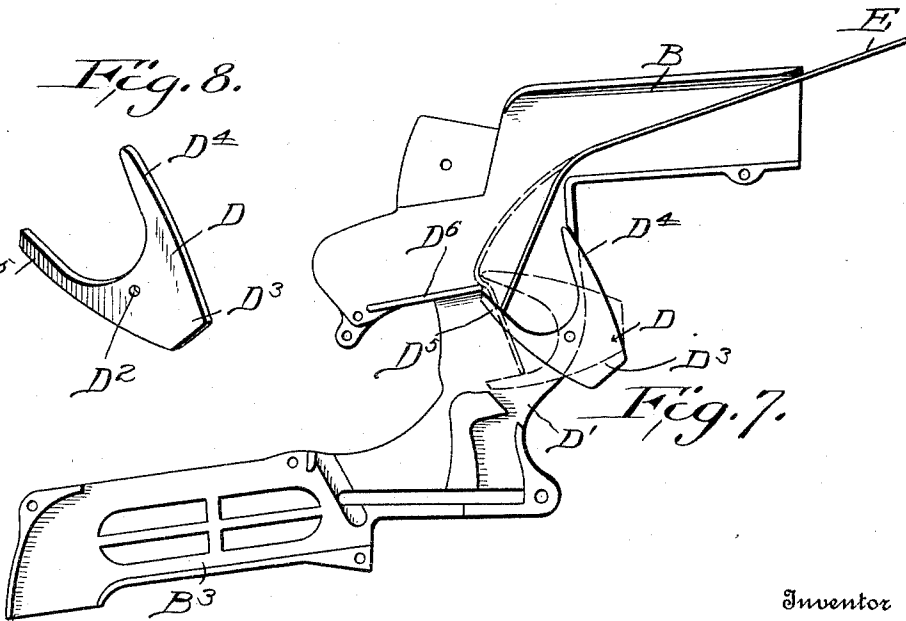


Fig. 7.

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UNITED STATES PATENT OFFICE.

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VENDING-MACHINE.

1,099,017.

Specification of Letters Patent.

Patented June 2, 1914.

Application filed January 6, 1912. Serial No. 669,775.

To all whom it may concern:

Be it known that I, BRITTON E. BYRD, a citizen of the United States, residing at Durham, in the county of Durham and State of North Carolina, have invented a new and useful Improvement in Vending-Machines, of which the following is a specification.

This invention relates generally to vending machines and more particularly to a cigar vending machine, the object being to provide certain safety appliances for the machine constructed in accordance with Patent 927,656, dated July 13, 1909. In that machine the mechanism is contained within a glass case and is clearly visible to everyone. Coin is introduced into the coin chute through a slot at the upper left hand corner of the machine and the operation of the machine through the medium of this coin can be clearly seen by everyone and it has been found that the delivery mechanism can be actuated by inserting a wire through the slot equally as well as by inserting a proper coin and the machine can be fraudulently operated in two different ways, namely, by forcing a wire down through the coin chute until it reaches the tripping plate or pan, and by passing the wire through the slot outside the coin chute until it reaches the said tripping plate or pan.

As before stated the object of my invention is to provide this machine with safety appliances so as to prevent this fraudulent operation and this object I accomplish by arranging in the coin chute a detent which will receive and discharge the proper coin which will arrest the passage of a wire or other object which is intended to be forced therethrough; and I also provide a protecting guard which is preferably detachably connected to the forward part of the mechanism and which is of such size as to envelop the forward part of the mechanism sufficiently to prevent the wire which is passed through the coin slot and outside of the coin chute from coming in contact with the delivery mechanism.

My invention also consists in certain other novel features of construction and combination all of which will be described hereinafter and pointed out in the claim.

In the drawings forming a part of this specification: Figure 1 is a perspective view of one corner of a vending machine having

my improvements applied thereto only that much of the mechanism being illustrated to show the construction and operation of my improvements. Fig. 2 is a detail perspective view of the portion of the delivery mechanism showing my protecting guard applied thereto. Fig. 3 is a detail perspective view of the said guard detached from the delivery mechanism. Fig. 4 is a top plan view showing a portion of the vending machine equipped with my improvements. Fig. 5 is a detail side elevation illustrating the manner of protecting the mechanism from the fraudulent operation of a wire passed through the slot and outside the coin chute. Fig. 6 is a detail view taken through the center of the coin chute and illustrating the construction, arrangement, and operation of my attachment. Fig. 7 is a view illustrating the manner of preventing fraud when the wire is passed through the slot, and Fig. 8 is a detail perspective view of the detent plate.

In view of the fact that my invention is in the nature of certain attachments to a machine a detail description of said machine is not deemed necessary, and referring to the drawing it will be noted that A, indicates the glass case within which the mechanism is contained and B, is the coin chute into which the coin is introduced through the slotted plate B', arranged upon the upper left hand corner of the glass case. The coin chute B, is provided with a magnet B², coin delivery portion B³ and registering mechanism B⁴, all of which constitute no part of my invention being identically the same as those shown in the patent previously referred to with the exception of certain features of construction incidental to the coin chute as will hereinafter appear. The coin after passing through the chute B, engages a tripping plate or pan C, and sets the mechanism in operation and it is with the idea of preventing the introduction of a wire through the chute to operate said pan that I provide a detent or plate D, in the said chute, a portion of the flange of said chute being removed as shown at D', to permit the introduction of said plate or detent D, it being understood that this plate or detent is of a thickness equal to the thickness of the flange removed. This plate or detent D, is pivoted at D², and the weighted portion D³, thereof projects forwardly and

downwardly outside the chute while the upper and lower fingers D⁴ and D⁵, rest within the chute and provide a pocket or resting place for the coin as it passes through the chute to the actuated mechanism as most clearly shown Fig. 6 wherein I have shown in full lines the normal position of the detent in which position it catches and receives the proper coin and the weight thereof is sufficient to trip the detent and discharge the coin thereby permitting it to perform its usual functions the tripping operation being indicated in dotted lines. Should a wire E, be introduced through the slot into the coin chute it will first engage the finger D⁵, and forcing the same down will be engaged by the finger D⁴, pressing the same against the opposing flange portion D⁶, thereby binding the wire at that point and preventing its further progress, it will thus be seen that I effectively prevent the fraudulent operation of this machine by passing a wire through the chute. I also provide for preventing the wire being passed through the slot outside the coin chute and this I accomplish by means of a sheet metal protecting guard F, comprising the curved front portion F', and the straight side portion F², said portion F², being shaped to fit upon the said casting F³, of the delivery mechanism and is secured thereto by means of a screw F⁴, the lower end of the front portion F', being grooved or upset as shown at F⁵, and adapted to engage the bolt or rod F⁶, which serves to hold plate F⁷, in parallel relation with the casting F³, said plate F⁷, constituting a part of the vending machine, but no part of my present invention. This sheet metal guard F, is of such width as to extend from the casting F³, to the glass side of the case as most clearly shown in Figs. 1 and 4, and consequently completely envelops the actuat-

ing mechanism from the inner side so that if a wire be passed through the slotted plate B', outside the coin chute B, it will be impossible to reach the tripping plate or pan C, as the end of the wire will contact with the upper portion of the protecting guard as most clearly illustrated in Fig. 5. It will thus be seen that I effectively prevent the fraudulent operation of a machine constructed in accordance with the patent previously referred to and it will of course be understood that my invention is not limited to this particular machine but is adapted for use in connection with machines of this general character and subject to the same objections.

What I claim is:

In a device of the kind described the combination with an angular coin chute composed of two longitudinally flanged sections united along their flanged edges, the flanges at the forward side of the angle being removed for a portion of their lengths, of a detent pivoted in said chute at the angle thereof and of a thickness equal to the removed portions of the flanges and adapted to oscillate in the coin chute, said detent extending both into the coin chute and below the same, the downwardly extending portion being heavier than the upwardly extending portion, said upwardly extending portion being cut-out to receive a coin, the forward leg of said upwardly extending portion being of such length as to contact with the flanged chute at the forward side when in a normal position and also engage the flange upon the opposite side when in a tilted position thereby serving as a cut-off when the detent is tilted.

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