

A. H. BOWMAN.
 SLOT MACHINE.
 APPLICATION FILED MAY 11, 1911.

1,057,322.

Patented Mar. 25, 1913.

2 SHEETS-SHEET 1.

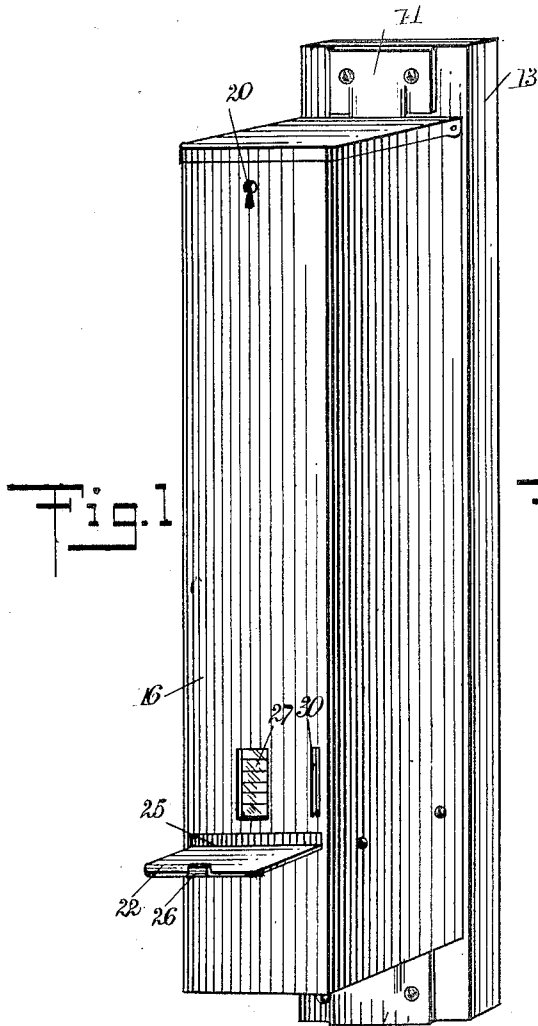


Fig. 1

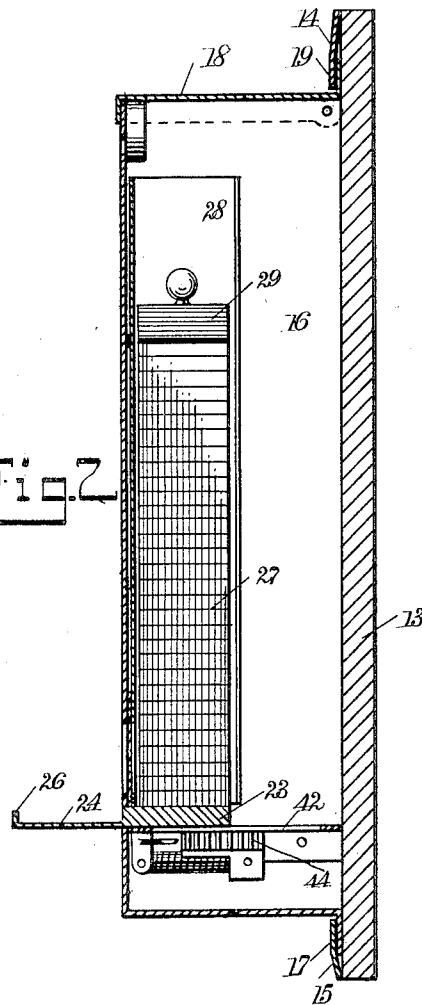


Fig. 2

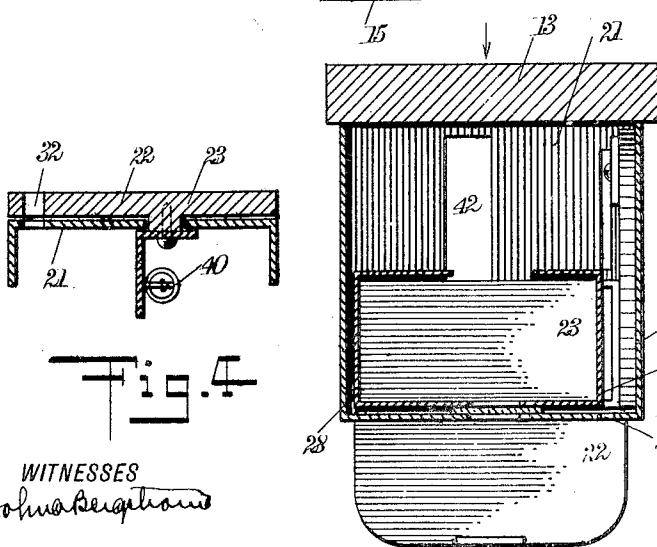


Fig. 3

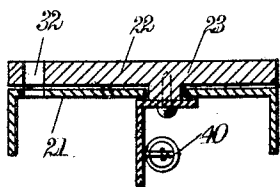


Fig. 4

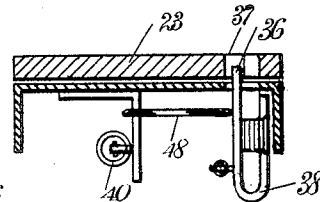


Fig. 5

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Fig. 6

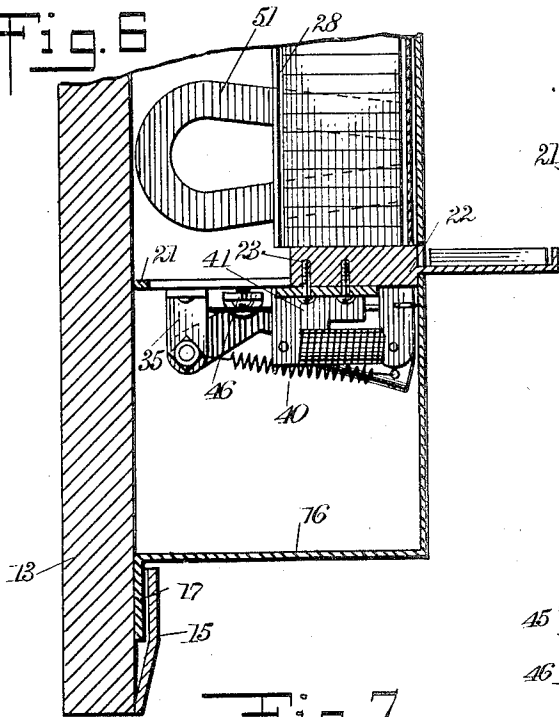


Fig. 7

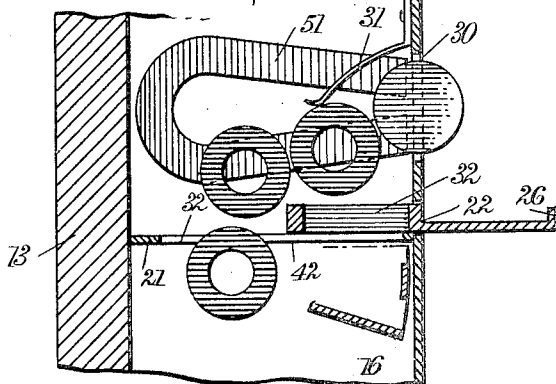


Fig. 9

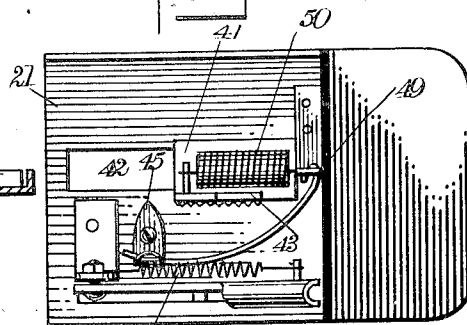


Fig. 10

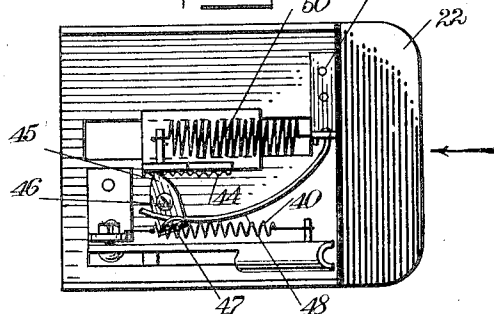


Fig. 11

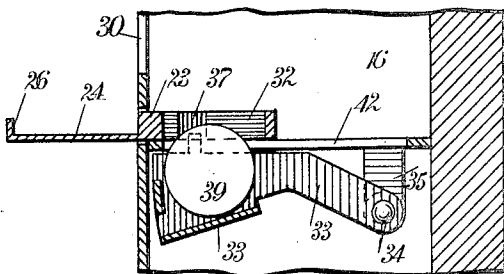
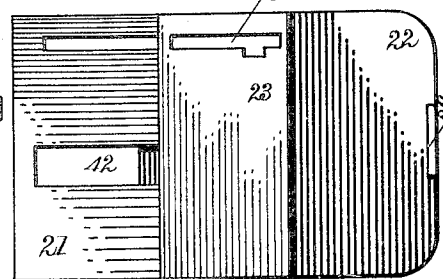


Fig. 8

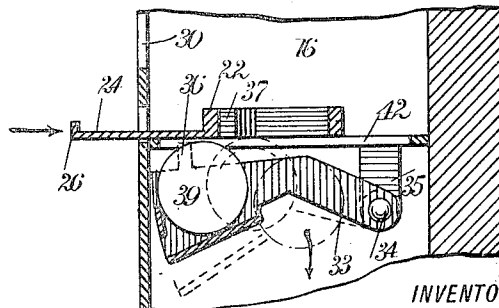


Fig. 12

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UNITED STATES PATENT OFFICE.

ALTON HENRY BOWMAN, OF ALLENTOWN, PENNSYLVANIA.

SLOT-MACHINE.

1,057,322.

Specification of Letters Patent.

Patented Mar. 25, 1913.

Application filed May 11, 1911. Serial No. 626,500.

To all whom it may concern:

Be it known that I, ALTON H. BOWMAN, a citizen of the United States, and a resident of Allentown, in the county of Lehigh and State of Pennsylvania, have invented a new and Improved Slot-Machine, of which the following is a full, clear, and exact description.

My invention relates to a new and improved form of slot machine, and more particularly relates to that class of machine adapted to dispense gum or other commodity upon the insertion of a coin in a slot.

An object of my invention is to provide a device which will allow the passage of coin but which will intercept washers or slugs.

A further object of my invention is to provide a coin-controlled slot machine, which is actuated by a device riding over the upper circumference of the coin.

A further object of my invention is to provide a dispensing carriage which can return to its normal position only after having been fully actuated.

A further object of my invention is to provide a device of the above-outlined character which is simple in construction, having relatively few parts which might get out of order.

A further object of my invention is to provide a casing for said mechanism, and to contain the articles to be dispensed, which casing is attached directly to a standard or support and is fastened in position by the same fastening means by which the casing is locked.

With the above and other objects in view, as will more fully hereinafter appear, the present invention consists in certain novel details of construction and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures, and in which—

Figure 1 is a perspective view showing a preferred embodiment of my invention; Fig. 2 is a vertical sectional view taken from front to rear centrally through the device

shown in Fig. 1; Fig. 3 is a plan view looking down upon the carriage and supporting plate; Fig. 4 is an end view of the same looking in the direction of the arrow in Fig. 3; Fig. 5 is a view similar to Fig. 4 but looking in the direction of the opposite end of the device; Fig. 6 is a vertical transverse sectional view taken through the bottom of the machine; Fig. 7 is a view similar to Fig. 6, parts being broken away to show the coins passing in through the coin slot; Fig. 8 is a view similar to Fig. 7 but showing a coin in the locking lever; Fig. 9 is a view similar to Fig. 3 but showing the under side of the supporting plate and carriage with the latter in extended position; Fig. 10 is a view similar to Fig. 9 but showing the carriage in telescoped position; Fig. 11 is a plan view looking down upon the carriage and supporting plate with the same detached from the machine; and Fig. 12 is a view similar to Fig. 8 but showing the carriage depressed to uncover the locking lever.

In the several figures, I have shown a supporting base 13, spaced apart vertically on which is a pair of pockets 14 and 15, the openings in which face each other. Disposed between said pockets, is a casing 16, the lower end of which has an offset lug 17, fitting within the lower pocket 15. To the upper end of the casing 16 is pivoted a cover 18, from the back end of which cover projects a lug 19 adapted to fit into and engage the top pocket 14, to hold the casing 16 in position by locking the cover 18 to the casing 16 by means of a lock 20. Fastened to the inside of the casing, adjacent the bottom thereof, is a supporting plate 21, upon which plate rides a carriage 22 having a thickened rear portion 23 and a thin front portion 24 extending through a slot 25 in front of the machine, the outer end of which portion 24 is bent upward into a lip 26. This thickened portion corresponds in thickness to each piece of gum 27 deposited in a chute 28 extending vertically through the front of the casing. Upon the upper end of the stack of pieces of gum is disposed the ordinary form of actuating weight 29.

It will be seen that the carriage 22 may be moved back and forth, and as it is inserted, the lower piece of gum will fall into the thin portion 24, and as said carriage moves into the position shown in Figs. 1 and 2, the lower piece of gum will be withdrawn from

the casing and stack. By this arrangement, it will be seen that one piece at a time is withdrawn from the stack.

To actuate the device, a coin is inserted 5 in a coin slot 30. Then the coin comes in contact with the downwardly-extending spring 31 and drops through the slot 32 in the thickened portion 23 of the carriage 22 and drops into the locking lever 33, which 10 lever is pivoted at 34 to a bracket 35 depending from the rear of and beneath the supporting plate 21. The upper edge of the locking lever 33 has a lug 36 extending upwardly therefrom, engaging a recess 37 in 15 the thickened portion of the carriage 22 adjacent the coin slot 32. The locking lever is of a general U-shaped construction, as shown more particularly at 38, Fig. 5, and this U member is of an internal depth slightly less 20 than the diameter of the coin 39. It will thus be seen that as the carriage 22 is depressed, said carriage will attempt to ride up on the coin 39, depressing the coin and locking lever, thereby withdrawing the lug 25 36 from its engagement with the carriage 22 and permitting the latter to be inserted its full extent, in order to engage with the piece of gum or other commodity in the chute 28. The locking lever 33 is retained 30 in its normal position with the lug 36 in engagement with the recess 37 by means of a tension spring 40.

Rigidly attached to the under side of the thickened portion 23 of the carriage 22, is 35 an L-shaped plate 41 projecting through a slot 42 in the supporting plate 21, so as to guide the carriage on said plate. The projecting portion 43 of this plate has a rack 44 projecting therefrom, which rack is en- 40 gaged by a nose 45 on the lever 46, which lever is pivoted to the under side of the supporting plate 21, and has the end opposite the nose 45 bent into a hook 47, which hook engages the free end of a bent spring 48, 45 the end opposite the free end of which is rigidly attached to a boss 49 which boss also carries one end of a compression spring 50, the other end of which is attached to the L-shaped plate 41.

It will be seen that by this construction, 50 when the carriage is pressed inward, the rack 43 will ride over the nose 45 of the lever 46, and cannot be withdrawn until the carriage 22 is fully projected, that is, not until 55 the lower piece of gum is in position in the thin portion 24 of the carriage 22. Then the end of the rack having passed the nose, the carriage actuated by the spring 50, is free to slide to the outside of the casing, as shown 60 in Figs. 1, 2 and 3, to expose the piece of gum or other commodity.

In order to prevent the insertion of washers or slugs there is disposed inside of the

casing adjacent the slot 30, a horseshoe magnet 51, to which iron slugs or washers will 65 adhere, as shown in Fig. 7, and a succession of slugs or the insertion of a coin after the insertion of a slug, will cause the slugs to drop through a recess 52 in the rear of and 70 beyond the coin-receiving slot 32, so that the slugs will not actuate the locking lever 33. At the same time, should a coin be inserted, the coin will not be attracted by the magnet 51, but will drop down on the lock- 75 ing lever 33, to release the lug 36 so that the carriage 22 may be unlocked from the supporting plate.

Many changes could be made in the above construction and many apparently widely 80 different embodiments of this invention could be made without departing from the scope thereof. It is intended that all matters contained herein in the above description or shown in the accompanying drawings, shall be interpreted as illustrative and not in a 85 limiting sense. It is also to be understood that the language used in the following claim is merely intended to cover all the generic and specific features of the invention herein described, and is intended to 90 cover the full scope of the invention, which, as a matter of language, might be said to fall therebetween, and that materials, sizes and relativities of parts are nonessential, 95 except as called for in the claim.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

In a slot machine, a slotted supporting plate, a dispensing carriage slidable on said 100 plate, and a lever pivoted at its rear end beneath said supporting plate, and provided with an upstanding lug projecting through the plate and into engagement with the carriage, the forward end of said lever being 105 directly below said carriage and being provided with a side piece bent to form a substantially U-shaped coin pocket, open at its rear end and having a rearwardly and upwardly inclined base whereby a coin dis- 110 posed edgewise in said pocket will be engaged by the carriage and rolled rearwardly upon the said inclined base, during rearward movement of the carriage, causing lowering movement of the lever to disen- 115 gage its lug from the carriage and to cause subsequent discharge of the coin through the rear open end of the coin pocket.

In testimony whereof I have signed my name to this specification in the presence of 120 two subscribing witnesses.

ALTON HENRY BOWMAN.

Witnesses:

C. H. FETTERMAN,
CHARLES SEAMAN.