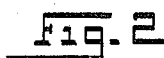


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5 SHEETS--SHEET 1.



Frederick M. W. Frausthof
Harry E. Pfaffner

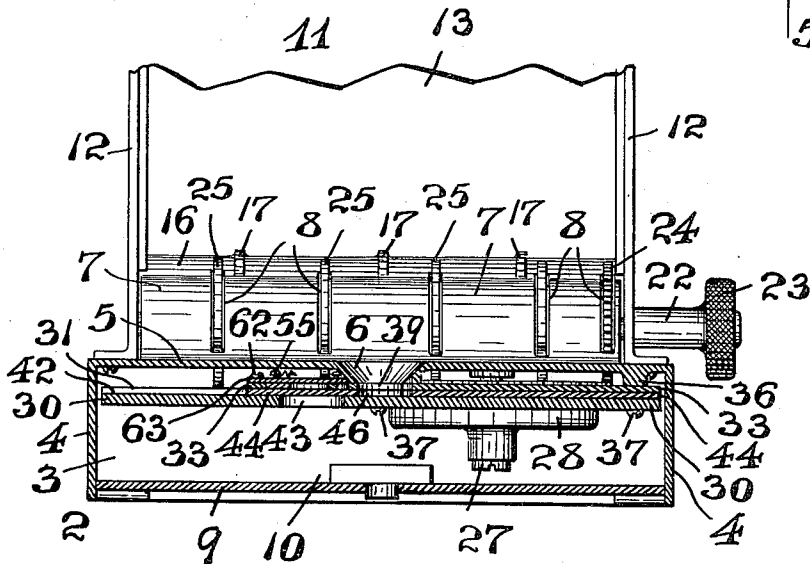
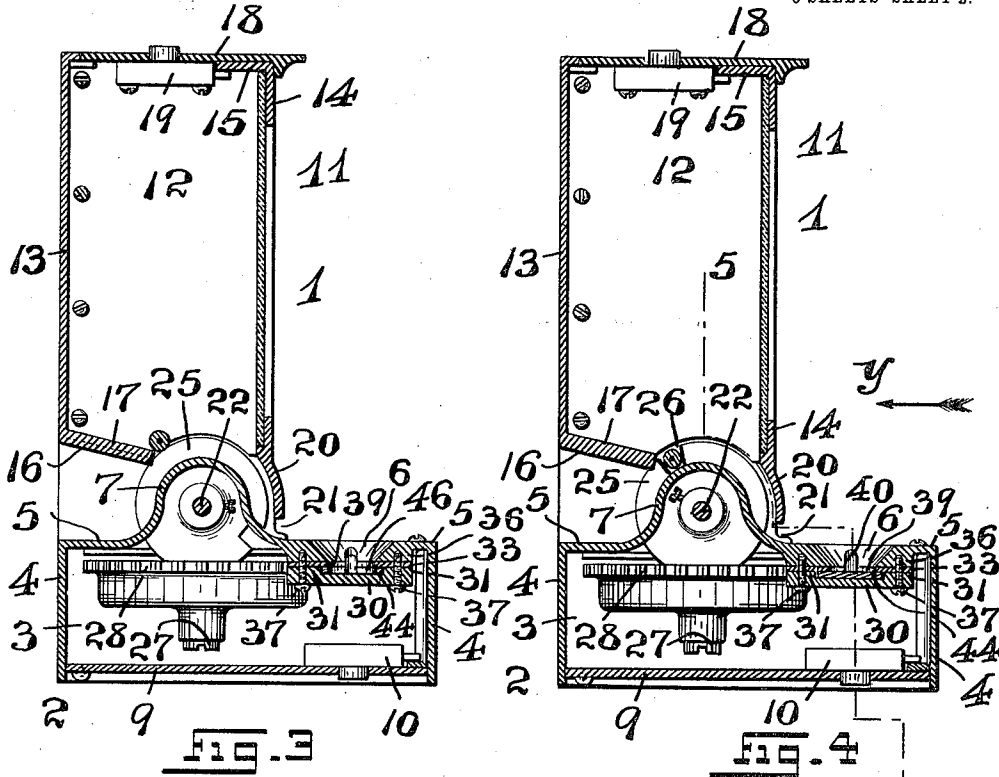
Clement C. Clawson
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ATTORNEYS

C. C. CLAWSON.
 VENDING MACHINE.
 APPLICATION FILED JUNE 15, 1911.

1,006,723.

Patented Oct. 24, 1911.

5 SHEETS—SHEET 2.



WITNESSES:
Wm. H. W. Graetz
Harry C. Pfeiffer

Fig. 5

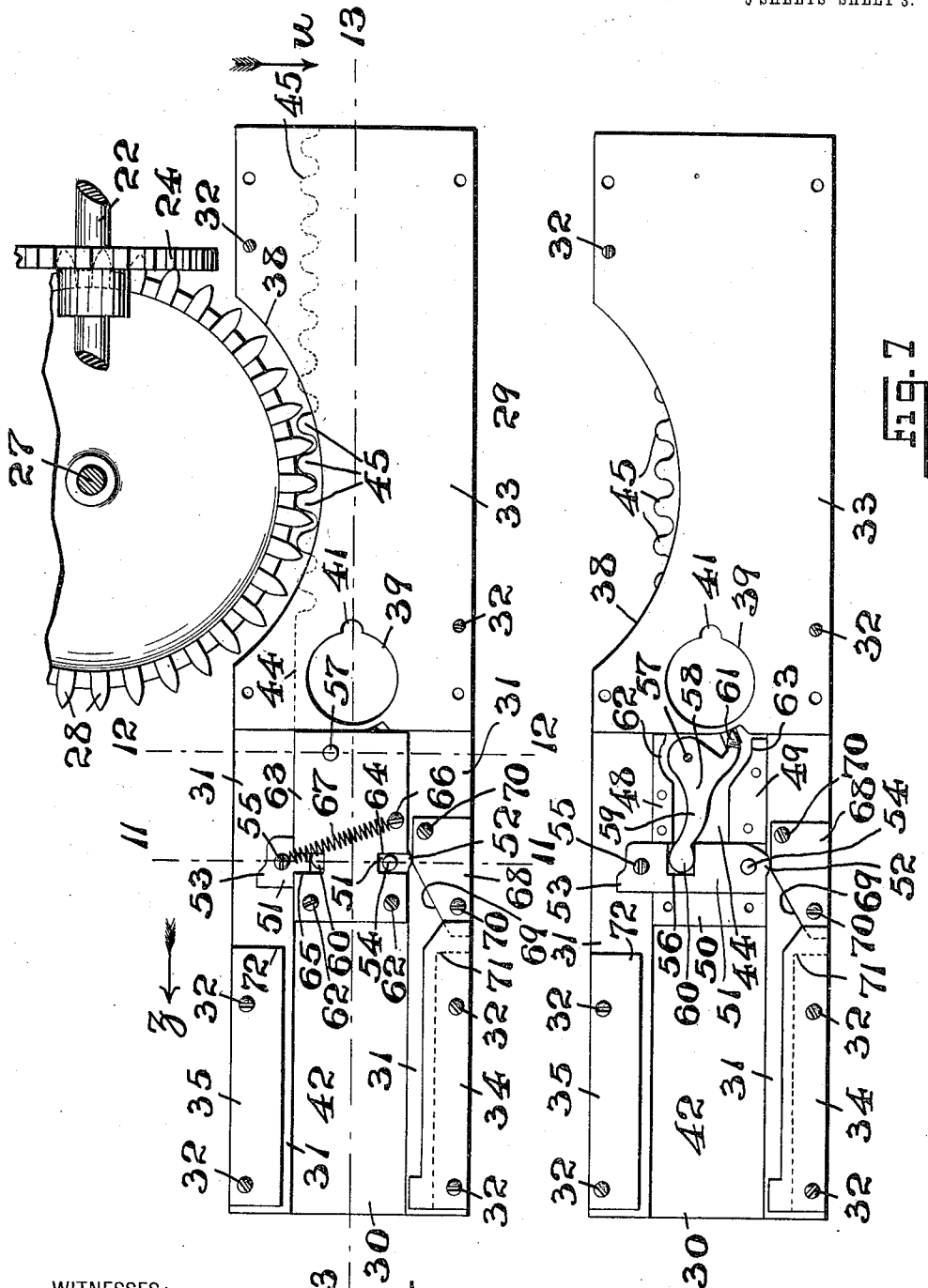
INVENTOR:
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C. C. CLAWSON.
 VENDING MACHINE.
 APPLICATION FILED JUNE 15, 1911.

1,006,723.

Patented Oct. 24, 1911.

5 SHEETS—SHEET 3.



WITNESSES:

Hyatt W. W. Fraentzel
Harry C. P. Cliffer

Fig. 6

INVENTOR:

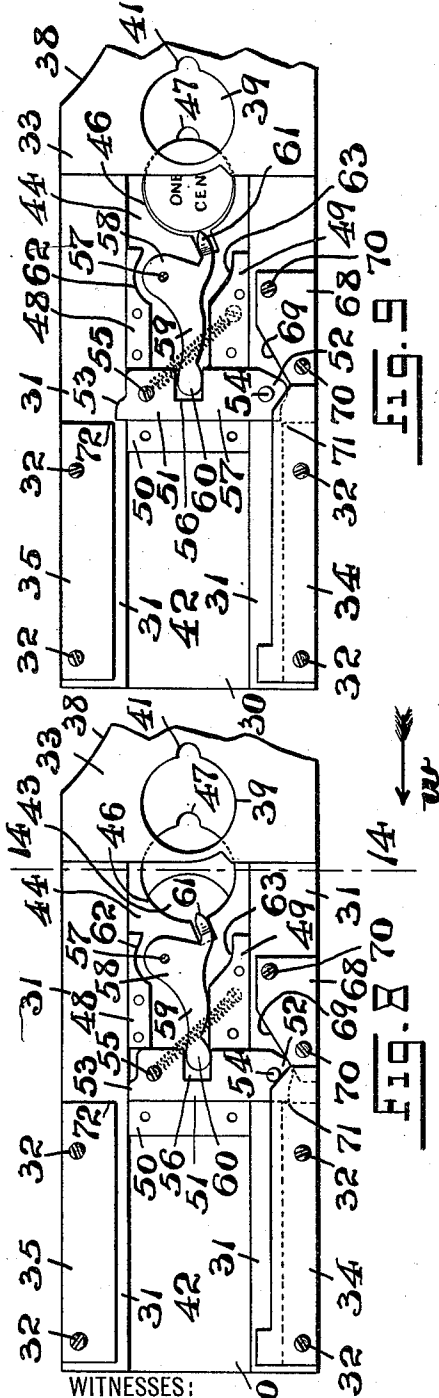
Clement C. Clawson,
 BY
Fraentzel and Richards,
 ATTORNEYS

Fig. 7

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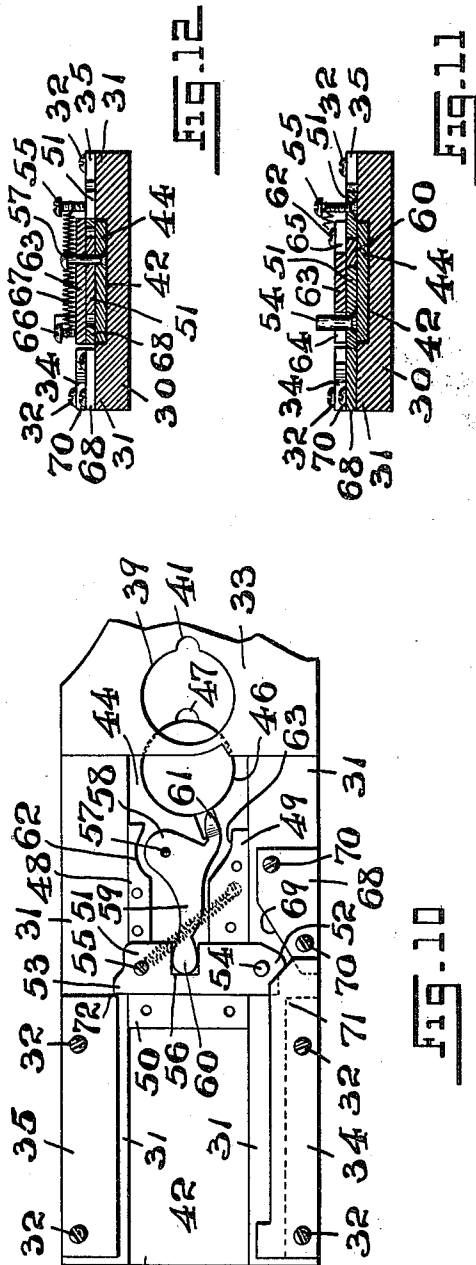
Patented Oct. 24, 1911.

5 SHEETS-SHEET 4.



WITNESSES:

Frederick W. Fraentzel
Harry C. Puffer



INVENTOR:
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1,006,723.

Patented Oct. 24, 1911.

5 SHEETS—SHEET 5.

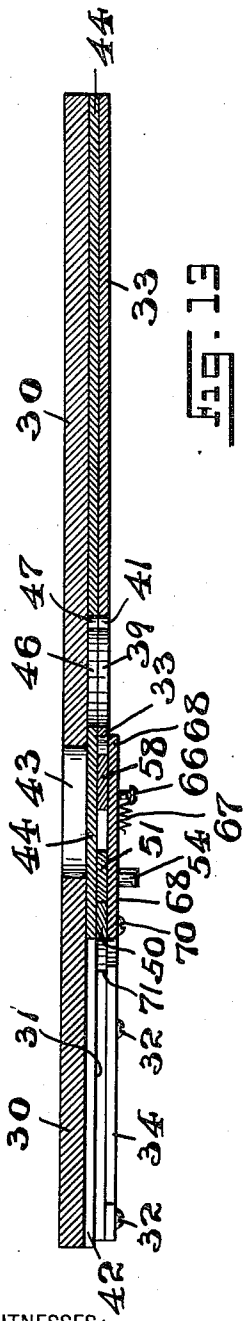


Fig. 13

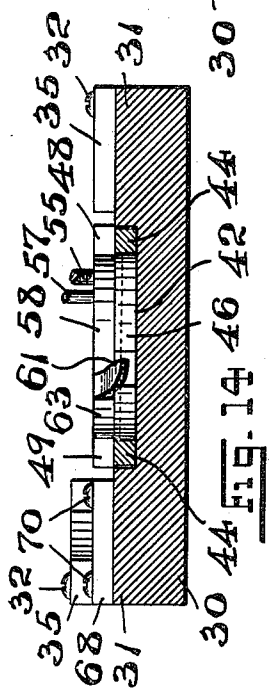


Fig. 14

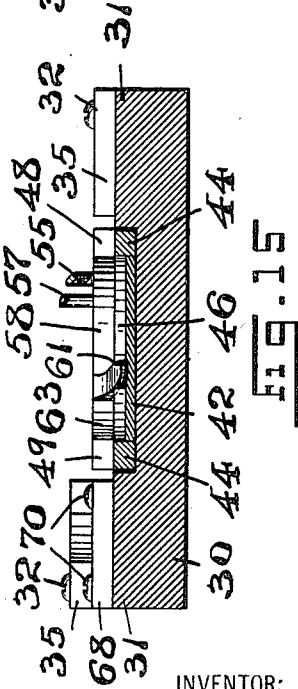


Fig. 15

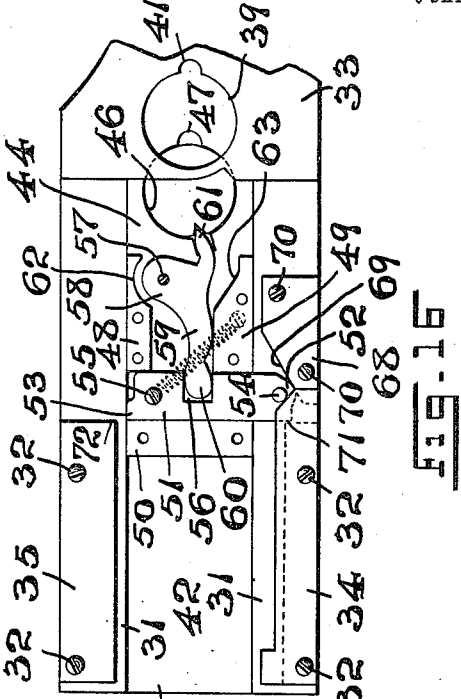


Fig. 16

WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

CLEMENT C. CLAWSON, OF FLAGTOWN, NEW JERSEY.

VENDING-MACHINE.

1,006,723.

Specification of Letters Patent.

Patented Oct. 24, 1911.

Application filed June 15, 1911. Serial No. 633,416.

To all whom it may concern:

Be it known that I, CLEMENT C. CLAWSON, a citizen of the United States, residing at Flagtown, in the county of Somerset and State of New Jersey, have invented certain new and useful Improvements in Vending-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

This invention relates, generally, to improvements in vending machines; and, the present invention has reference, more particularly, to a novel and simply constructed and coin-operated vending machine.

The invention has for its principal object to provide a coin-operated vending machine of the general character hereinafter more fully set forth; and, the invention has for its further object to provide a novel coin-receiving slide which, as it receives a coin of the proper denomination in a coin-receiving opening with which the slide is provided, becomes released, and in sliding, operates the goods-delivering mechanism.

A further object of this invention is to provide a coin-receiving slide which, with the insertion of a slug or disk smaller than the coin of the proper denomination, or with a slug or disk which is thinner than the coin, or with a slug or disk of card-board or similar material, does not become operative; and, hence does not act to release the goods-delivery mechanism.

Other objects of this invention not at this time more particularly enumerated will be clearly understood from the following detailed description of the present invention.

With these various objects of this invention in view, the said invention consists in the novel coin-operated vending machine, and coin-receiving slide and operating mechanism therefor, hereinafter more fully set forth; and, the invention consists, furthermore, in the novel arrangements and combinations of the various devices and parts, as well as in the details of the construction of the same, all of which are more fully described in the following specification, and then finally embodied in the clauses of the claims which are appended to and which form an essential part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figures 1 and 2 are a front and top view, respectively, of a coin-operated vending machine made according to and embodying the principles of the present invention. Fig. 3 is a transverse vertical section of the machine, said section being taken on line 3—3, looking in the direction of the arrow *x*, the parts of the mechanism being shown in their normal initial positions; Fig. 4 is a similar section, taken on the same line in said Fig. 2, but showing the parts in their released relation, with the goods-delivery roll or device, containing an article, such as a pencil, stick of candy, or the like, ready to be carried around to the delivery slot or opening of the machine; and Fig. 5 is a longitudinal vertical section, said section being taken on line 5—5 in said Fig. 4, looking in the direction of the arrow *z*, and showing the general arrangement of the parts comprising the coin-receiving slide. Fig. 6 is a top view or plan of the coin-receiving slide, and a portion of a gear-mechanism for operating the same, said view being made on an enlarged scale, and the various movable parts of the said coin-receiving slide being represented in their normal initial positions. Fig. 7 is a similar view of the coin-receiving slide, with a top-plate or cover which is ordinarily arranged over the operating slide-plate of the coin-receiving slide omitted from said view. Fig. 8 is a detail plan view of the left-hand portion of the said coin-receiving slide, showing the limited movement of the movable parts thereof, when no coin has been inserted in the coin-receiving opening, but such movement being insufficient to release the goods-delivery mechanism. Fig. 9 is a view similar to that represented in said Fig. 8, with a coin of the proper denomination inserted in the coin-receiving opening, and the locking or retaining means properly actuated, so as to permit of the proper sliding movement of the operating slide-plate, and the release and rotary movement of the goods-delivery mechanism. Fig. 10 is a view similar to that represented in said Fig. 8, with a metal slug or disk inserted in the coin-receiving opening, and showing the operating slide-plate and the mechanism connected therewith released and actuated to such an extent, that the movement of the operating slide-plate is arrested, and that

the goods-delivery mechanism is not released and can not be operated. Fig. 11 is a transverse vertical section, taken on line 11—11 in said Fig. 6, looking in the direction of the arrow *z*; Fig. 12 is a similar section, taken on line 12—12 in said Fig. 6, looking in the same direction indicated by the arrow *z*; and Fig. 13 is a longitudinal vertical section, said section being taken on line 13—13 in said Fig. 6, looking in the direction of the arrow *u*. Fig. 14 is a transverse vertical section, taken on line 14—14 in Fig. 8, looking in the direction of the arrow *w*, said view being made on a considerably enlarged scale, and showing more particularly the general arrangement of the biting end of the pivoted dog which engages with the peripheral edge of the coin of the proper denomination for releasing and operating the various movable parts of the vending machine; and Fig. 15 is a similar sectional representation of the same parts represented in said Fig. 14, but showing the inactive relation of the said pivoted dog with a slug or disk of the same size as the coin of the proper denomination, but the slug or disk being thinner than the coin. Fig. 16 is a view similar to that represented in said Fig. 8, and showing the relative inactive positions of the movable parts of the coin-receiving slide with relation to a card-board slug or disk which has been inserted in the coin-receiving opening of the coin-receiving slide.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now to the said drawings, the reference-character 1 indicates the complete coin-operated vending machine or apparatus, showing one embodiment of the principles of the present invention, the same comprising a hollow base or casing 2, the same providing a suitable coin or money-receiving chamber 3, the said casing 2 consisting of the various sides 4 and a top 5, said top being formed in a suitable location with a funnel-shaped coin-receiving opening, as 6. The said top is also formed with a longitudinally extending and upwardly projecting hollow and arc-shaped portion, as 7, which is formed with a series of slots 8, substantially as shown in Figs. 1 and 5 of the drawings, and the purposes of which will be presently more fully described. The said base or case 2 also has an open bottom which is ordinarily closed with a gate, as 9, which is provided with a lock 10 of any suitable construction. Suitably arranged upon the top of said base or case 2 is an upwardly extending case, as 11, which is of less width than that of the base or case 2, the said case 11 consisting of the sides 12, the back 13, the preferably glass-closed front 14, and top-ledge 15. Extending in-

wardly from the said back 13 is a short and slightly downwardly inclining ledge 16, which is preferably formed upon its upper surface with projections or ribs, as 17, upon which are supported so as to be adapted to roll thereon, the pencils, sticks of candy, or the like, which are to be dispensed. The upper and open end of this case 11 is ordinarily closed by a lid or gate 18 which is provided with a suitable lock 19, and the front 14 of said case is formed at its lower portion with a longitudinally extending and slightly outwardly curved part 20, said part 20 terminating at a sufficient distance above that part of the base or case 2 which extends beyond the said front 14, so as to provide with said portion of the base or case 2 a suitable delivery opening, as 21, as will be clearly evident from an inspection of Figs. 1, 3 and 4 of the drawings. Rotatably mounted in suitable bearing-portions in the sides 12 of the said case 11 is a spindle 22 which is provided at its one end upon the outside of said case 11, with a suitable operating or finger-piece, as 23. The said spindle 22 extends longitudinally beneath the said arc-shaped portion 7 of the lower case or base 2, the said spindle having mounted thereon a gear or toothed wheel, as 24, which extends through one of the slots 8 in the said part 7, and a series of disk-like members 25 which extend through the remaining slots 8 of the part 7, each disk-like member 25 being formed in its marginal edge-portion with a cut-in receiving portion 26. These cut-in portions 26 in the several disk-like members 25 are all in alinement with each, and are adapted to receive a pencil, stick of candy, or the like, as soon as the said cut-in receiving portions 26 pass beneath and beyond the edge of the previously-mentioned ledge 16, and carry the said pencil, stick of candy, or the like, to the delivery opening 21 when the spindle 22 and its parts are free to be rotated. Suitably connected with and extending down from the top 5 of the base or case 2 is a stud, as 27, and loosely and rotatably mounted upon said stud is a suitably formed gear-wheel 28, the teeth of which mesh with the teeth of the gear-wheel 24, as will be understood from an inspection of the several figures of the drawings.

The previously-mentioned coin-receiving slide is indicated by the reference-character 29, and the same consists, essentially, of a lower plate 30 formed with the longitudinally extending and upwardly projecting rib-like projections 31 upon which are secured by means of screws 32, or in any other suitable manner, a plate or cover 33, and a pair of smaller plates, as 34 and 35. The said parts are suitably secured within the upper part of the chambered base or case 2, and against suitable lugs or projection 36 1:

formed upon the under side of the top 5 of said base or case 2, by means of screws 37. Along one of their longitudinal marginal edge-ports, the said lower plate 30 and the plate or cover 33 are cut away on a curve, as at 38, corresponding to and into which a portion of the gear-wheel 28 extends, substantially as illustrated in Fig. 6 of the drawings. At the proper place, the said plate or cover 33 has a coin-receiving opening 39 which, under normal conditions, is directly beneath the funnel-shaped coin-receiving opening 6 in the cover 5, the opening 6 being notched out, as at 40, and the opening 39 being notched out as at 41, said notched out parts 40 and 41 registering with each other, for the insertion of the end of a tool when it is necessary to remove a tight-fitting coin or slug, as will be clearly evident.

The previously-mentioned rib-like projections 31 form suitable guides, and with the central part of the lower plate 30 they provide a suitable runway 42, as indicated more particularly in Figs. 14 and 15 of the drawings, the said runway being provided to the left of the opening 39 in the plate or cover 33 with a correspondingly formed opening 43 into which, at the proper time, the coin is deposited and thence drops through the same into the coin or money-receiving chamber 3 of the base or case 2. Slidably arranged within the said runway is a reciprocatory rack 44, the teeth 45 of which extend from the cut away or curved marginal edge-portion of the lower plate 30 and the plate or cover 33, the said teeth 45 being in operative engagement with the teeth of the gear-wheel 28. The said rack 45 is also formed with a coin-receiving opening, as 46, corresponding to the opening 39 in the plate or cover 33, said opening 46 being also preferably notched out, as at 47. Suitably secured upon the upper face of the left-hand end-portion of the rack 44 are a pair of short longitudinal extending plates, as 48 and 49, and a laterally extending plate 50. Laterally slidable between the one edge of the plate 50 and the ends of the plates 48 and 49 is a lock-bar 51, said bar 51 being formed at its one end with a nosing 52 and at its other end with a stop or projection 53. The said lock-bar 51 is also provided with a short post or stud 54 and a screw 55, and in one edge the said lock-bar has a cut-out or recessed part 56. Pivottally arranged upon a post 57, and between the said plates 48 and 49, is an oscillatory dog 58 which is provided with an arm 59, formed upon its free end-portion with a rounded part 60 which extends into the said cut-out or recessed part 56 for producing a reciprocating movement of the lock-bar 51, in the manner and for the purposes hereinafter more fully set forth. The said

dog 58 is formed with a forwardly and slightly downwardly extending and pointed nosing or holding element 61 which upon a slight movement of the rack 44 enters and projects slightly into the coin-receiving hole or opening 46 in the said reciprocatory rack 44, substantially as illustrated in Figs. 8, 9, 14, 15 and 16 of the drawings. To allow for the proper pivotal motion of the dog 58, the plates 48 and 49 are respectively cut out, as at 62 and 63. Suitably secured above the said plates 48, 49 and 50, by means of screws 62 and the said pivot or post 58 is a short slide-plate 63 which is formed in its longitudinal marginal edges with the cut-out or recessed parts 64 and 65, the post or stud 54 extending into the recessed part 64, and the screw 55 being adapted to move into the recessed part 65. Attached to the said screw 55 and a screw 66 upon said plate 63 is a coiled spring 67, the tendency of which is to draw the lock-bar 51 in the direction of the arrow *u*, indicated in Fig. 6 of the drawings.

Having in the foregoing specification described the general arrangement and construction of the various devices and parts comprising the novel coin-operated vending machine, I will now briefly set forth the manner of operating the several movable parts for the purpose of releasing the goods-delivery devices or mechanism. When it is desired to obtain a pencil, or stick of candy, or similar article, from within the case 11, a coin of the proper denomination is placed within the funnel-shaped coin-receiving opening 6. The coin immediately passes first through the openings 39 in the plate and then into the opening 46 in the reciprocatory rack 44, so as to rest upon the previously mentioned runway, with the coin in said opening 46. By turning or operating the fingerpiece 23, by means of the spindle 22, the gear 24 and the gear 28, a sufficient rotary motion of these parts is produced to move the rack 44, in the direction of the arrow *z*, so as to bring the edge of the coin almost immediately against the nosing 61 of the dog 58, and the point of said nosing being eccentrically disposed with relation to the center of the coin, the result is that the dog 58 moves from the position indicated in Fig. 7 to the position shown in Fig. 9 of the drawings. This causes the rounded part 60 of the arm 59 of the dog 58 to move the lock-bar 51 into a position, so that it will enter between the two plates 34 and 35, the nosing 61 of the dog 58 riding upon the inclined edge 69 of a plate 68 also secured upon one of the rib-like projections 31 of the plate 30, by means of screws 70, the bar 51 being moved into the position in said Fig. 9 by the action of the spring 67. As soon as the nosing 52 of the bar 51 strikes the corner of an undercut portion of the

plate 35, the coin is released, and drops into and through the opening 43 of the runway, the coin being immediately deposited in the chambered case or base 2. At the same time, the spindle and its disk-like members 25 have revolved sufficiently to move the cut-in receiving portions 26 far enough around to receive a pencil, or the like, and advance further until the pencil passes from said receiving portions 26 into the delivering opening 21. This result having been accomplished, the operator necessarily lets go of the finger-piece, whereupon the spring 67 again returns all parts to their normal initial positions ready for the next operation. When a slug of metal which is slightly larger than the coin of the desired denomination is placed in the coin-receiving openings, the movements of the dog 58 and lock-bar 51 are only such, as indicated in Fig. 10 of the drawings, whereby the stop 53 moves against the corner 72 of the plate 35 and all further movement of the rack 50 and the spindle 22 and its parts are barred, so that there will be no delivery of a pencil, or the like, at the delivery-opening of the vending machine, as will be clearly evident. When a very thin slug is inserted in the coin-receiving openings, the nosing of the dog will ride over the face of the thin slug, in the manner indicated in Fig. 15 of the drawings, so that the parts will move only into the position indicated in Fig. 8 of the drawings, and likewise there will be no delivery of the goods.

When a card-board slug is used the sharp and pointed nosing 61 of the dog 58 will embed itself sufficiently in the peripheral edge of the disk so that the movement of the bar 51 is greater than that with a coin, as indicated in said Fig. 9 of the drawings, so that the edge of the bar 51 moves against the corner 71 of the plate 34, whereby the further movements of all parts are arrested, and in that case there will be no delivery of the goods.

Of course I am aware that some changes may be made in the general arrangements and combinations of the various devices and parts, as well as in the details of the construction of the same, without departing from the scope of the present invention as set forth in the foregoing specification and as defined in the claims which are appended thereto. Hence, I do not limit my invention to the exact arrangements and combinations of the various devices and parts as described in the said specification, nor do I confine myself to the exact details of the construction of the said parts, as illustrated in the accompanying drawings.

I claim:—

1. In a vending machine, a chambered base and a goods-containing case connected therewith, said case having arranged there-

in a goods-delivery mechanism, and a coin-receiving releasing slide within said base, said slide being provided with a coin-receiving opening, an oscillatory dog pivotally connected with said slide, said dog having a thin and pointed nosing adapted to extend slightly into the said coin-receiving opening so as to engage the marginal edge of a coin within said opening, and means actuated by the movement of said dog so that the coin-receiving slide may be moved freely to release the coin, and simultaneously produce the operation of the goods-delivery mechanism.

2. In a vending machine, a chambered base and a goods-containing case connected therewith, said case having arranged therein a goods-delivery mechanism, and a coin-receiving releasing slide within said base, said slide being provided with a coin-receiving opening, an oscillatory dog pivotally connected with said slide, said dog having a thin and pointed nosing adapted to extend slightly into the said coin-receiving opening so as to engage the marginal edge of a coin within said opening, a pair of narrow marginal plates connected with said slide, said plates being arranged to have a space between them, and their corners forming stops, and a sliding lock-bar adapted to be actuated by the said dog, and the movement of said lock-bar being controlled by the movement of the said dog, to bring the said lock-bar against the stops of either of said plates, or into the space directly between the said plates, so that the coin-receiving slide may be moved freely to release the coin, and simultaneously produce the operation of the goods-delivery mechanism.

3. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a cover at one end-portion of said base plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-plate being also provided with a coin-receiving opening, normally out of registration with the openings in said cover and rack, and an oscillatory dog pivotally connected with said rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening.

4. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a cover at one end-portion of said base-plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack

having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-plate being also provided with a coin-receiving opening, normally out of registration with the openings in said cover and rack, and an oscillatory dog pivotally connected with said rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening, the pointed end of said nosing being made thin, so as to be of less thickness than the thickness of said rack.

5. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a cover at one end-portion of said base-plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-plate being also provided with a coin-receiving opening, normally out of registration with the openings in said cover and rack, and an oscillatory dog pivotally connected with said rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening, a narrow marginal plate upon each rib-like projection of said lower base-plate, the corners of said plates forming stops, a lock-bar slidably arranged upon said rib-like projections, said lock-bar being adapted to be actuated by the said dog, and the movement of said lock-bar being controlled by the movement of said dog, to bring the said lock-bar against the stops of either of said plates, or into the space directly between the said plates, so that the rack may be moved freely and its coin-receiving opening brought into registration with the opening in said lower base-plate to release the coin.

6. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a cover at one end-portion of said base-plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-plate being also provided with a coin-receiving opening, normally out of registration with the openings in said cover and rack, and an oscillatory dog pivotally connected with said rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening, the pointed end of said nosing being made thin,

so as to be of less thickness than the thickness of said rack, a narrow marginal plate upon each rib-like projection of said lower base-plate, the corners of said plates forming stops, a lock-bar slidably arranged upon said rib-like projections, said lock-bar being adapted to be actuated by the said dog, and the movement of said lock-bar being controlled by the movement of said dog, to bring the said lock-bar against the stops of either of said plates, or into the space directly between the said plates, so that the rack may be moved freely and its coin-receiving opening brought into registration with the opening in said lower base-plate to release the coin.

7. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a cover at one end-portion of said base-plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-plate being also provided with a coin-receiving opening, normally out of registration with the openings in said cover and rack, and an oscillatory dog pivotally connected with said rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening, an arm extending from said dog, said arm being formed with a rounded part, a narrow marginal plate upon each rib-like projection of said lower base-plate, the corners of said plates forming stops, a lock-bar slidably arranged upon said rib-like projections, said lock-bar being made with a recessed part in which the rounded part of the arm of said dog is arranged for actuating said lock-bar by means of said dog, and the movement of said lock-bar being controlled by the movement of said dog, to bring the said lock-bar against the stops of either of said plates, or into the space directly between the said plates, so that the rack may be moved freely and its coin-receiving opening brought into registration with the opening in said lower base-plate to release the coin.

8. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a coin at one end-portion of said base-plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-plate being also provided with a coin-receiving opening, normally out of registration with the open-

ings in said cover and rack, and an oscillatory dog pivotally connected with said rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening, the pointed end of said nosing being made thin, so as to be of less thickness than the thickness of said rack, an arm extending from said dog, said arm being formed with a rounded part, a narrow marginal plate upon each rib-like projection of said lower base-plate, the corners of said plates forming stops, a lock-bar slidably arranged upon said rib-like projections, said lock-bar being made with a recessed part in which the rounded part of the arm of said dog is arranged for actuating said lock-bar by means of said dog, and the movement of said lock-bar being controlled by the movement of said dog, to bring the said lock-bar against the stops of either of said plates, or into the space directly between the said plates, so that the rack may be moved freely and its coin-receiving opening brought into registration with the opening in said lower base-plate to release the coin.

9. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a cover at one end-portion of said base-plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-plate being also provided with a coin-receiving opening, normally out of registration with the openings in said cover and rack, and an oscillatory dog pivotally connected with said rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening, a narrow marginal plate upon each rib-like projection of said lower base-plate, the corners of said plates forming stops, a lock-bar slidably arranged upon said rib-like projections, said lock-bar being adapted to be actuated by the said dog, and the movement of said lock-bar being controlled by the movement of said dog, to bring the said lock-bar against the stops of either of said plates, or into the space directly between the said plates, so that the rack may be moved freely and its coin-receiving opening brought into registration with the opening in said lower base-plate to release the coin, a series of other short plates upon said rack, and a short slide-plate mounted upon said last-mentioned short plates above said lock-plate, said short slide-plate being provided with recessed parts, posts extending upwardly from said lock-plate into the said recessed parts of said lock-plate, a post upon said short slide-plate, and a coiled spring secured at one end to one of the posts of said lock-plate, said spring being secured at its other end to the post of said short slide-plate, substantially as and for the purposes set forth.

lock-plate into the said recessed parts of said lock-plate, a post upon said short slide-plate, and a coiled spring secured at one end to one of the posts of said lock-plate, said spring being secured at its other end to the post of said short slide-plate, substantially as and for the purposes set forth.

10. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a cover at one end-portion of said base-plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-plate being also provided with a coin-receiving opening, normally out of registration with the openings in said cover and rack, and an oscillatory dog pivotally connected with said rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening, the pointed end of said nosing being made thin, so as to be of less thickness than the thickness of said rack, a narrow marginal plate upon each rib-like projection of said lower base-plate, the corners of said plates forming stops, a lock-bar slidably arranged upon said rib-like projections, said lock bar being adapted to be actuated by the said dog, and the movement of said lock-bar being controlled by the movement of said dog, to bring the said lock-bar against the stops of either of said plates, or into the space directly between the said plates, so that the rack may be moved freely and its coin-receiving opening brought into registration with the opening in said lower base-plate to release the coin, a series of other short plates upon said rack, and a short slide-plate mounted upon said last-mentioned short plates above said lock-plate, said short slide-plate being provided with recessed parts, posts extending upwardly from said lock-plate into the said recessed parts of said lock-plate, a post upon said short slide-plate, and a coiled spring secured at one end to one of the posts of said lock-plate, said spring being secured at its other end to the post of said short slide-plate, substantially as and for the purposes set forth.

11. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a cover at one end-portion of said base-plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-

plate being also provided with a coin-receiving opening, normally out of registration with the openings in said cover and rack, and an oscillatory dog pivotally connected with said rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening, an arm extending from said dog, said arm being formed with a rounded part, a narrow marginal plate upon each rib-like projection of said lower base-plate, the corners of said plates forming stops, a lock-bar slidably arranged upon said rib-like projections, said lock-bar being made with a recessed part in which the rounded part of the arm of said dog is arranged for actuating said lock-bar by means of said dog, and the movement of said lock-bar being controlled by the movement of said dog, to bring the said lock-bar against the stops of either of said plates, or into the space directly between the said plates, so that the rack may be moved freely and its coin-receiving opening brought into registration with the opening in said lower base-plate to release the coin, a series of other short plates upon said rack, and a short slide-plate mounted upon said last-mentioned short plates above said lock-plate, said short slide-plate being provided with recessed parts, posts extending upwardly from said lock-plate into the said recessed parts of said slide-plate, a post upon said short slide-plate, and a coiled spring secured at one end to one of the posts of said lock-plate, said spring being secured at its other end to the post of said short slide-plate, substantially as and for the purposes set forth.

12. In a vending machine, a coin-receiving slide comprising a lower base-plate formed with upwardly projecting rib-like projections providing guides, a cover at one end-portion of said base-plate, said cover being formed with a coin-receiving opening, a rack arranged between said guides, said rack having a coin-receiving opening normally in registration with the coin-receiving opening in said cover, said lower base-plate be-

ing also provided with a coin-receiving opening, normally out of registration with the openings in said cover and rack, and an oscillatory dog pivotally connected with rack, said dog having a pointed nosing adapted to extend slightly into the coin-receiving opening of said rack so as to engage the marginal edge of a coin within said opening, the pointed end of said nosing being made thin, so as to be of less thickness than the thickness of said rack, an arm extending from said dog, said arm being formed with a rounded part, a narrow marginal plate upon each rib-like projection of said lower base-plate, the corners of said plates forming stops, a lock-bar slidably arranged upon said rib-like projections, said lock-bar being made with a recessed part in which the rounded part of the arm of said dog is arranged for actuating said lock-bar by means of said dog, and the movement of said lock-bar being controlled by the movement of said dog, to bring the said lock-bar against the stops of either of said plates, or into the space directly between the said plates, so that the rack may be moved freely and its coin-receiving opening brought into registration with the opening in said lower base-plate to release the coin, a series of other short plates upon said rack, and a short slide-plate mounted upon said last-mentioned short plates above said lock-plate, said short slide-plate being provided with recessed parts, posts extending upwardly from said lock-plate into the said recessed parts of said slide-plate, a post upon said short slide-plate, and a coiled spring secured at one end to one of the posts of said lock-plate, said spring being secured at its other end to the post of said short slide-plate, substantially as and for the purposes set forth.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 14th day of June, 1911.

CLEMENT C. CLAWSON.

Witnesses:

FREDK. C. FRAENTZEL,
FREDK. H. W. FRAENTZEL.