

W. C. FLINN.
 PERFUME VENDING MACHINE.
 APPLICATION FILED MAY 12, 1910.

988,701.

Patented Apr. 4, 1911.
 2 SHEETS-SHEET 1.

Fig. 1.

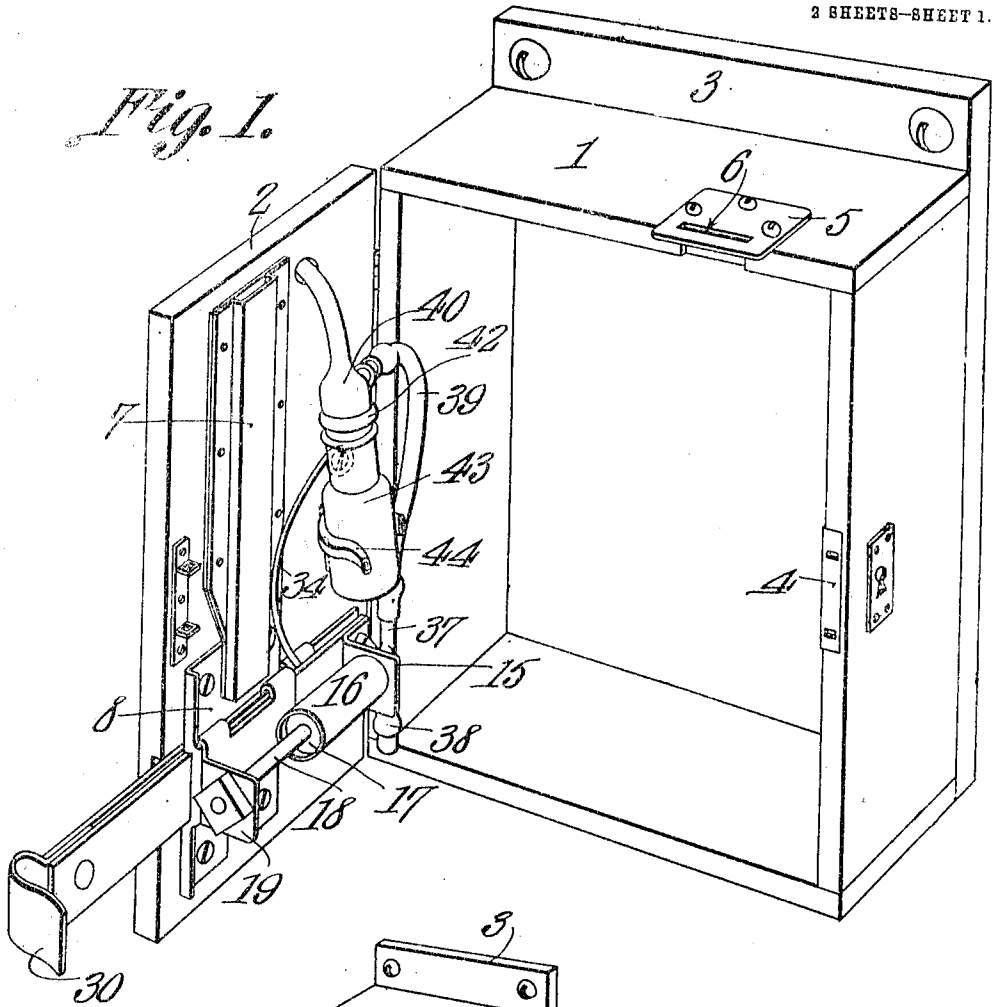
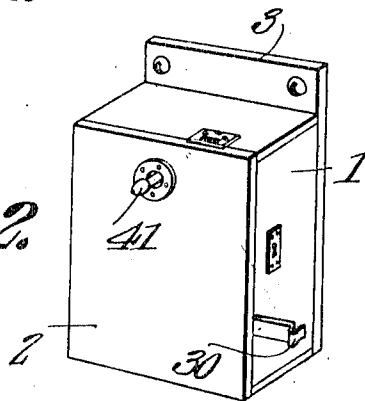


Fig. 2.



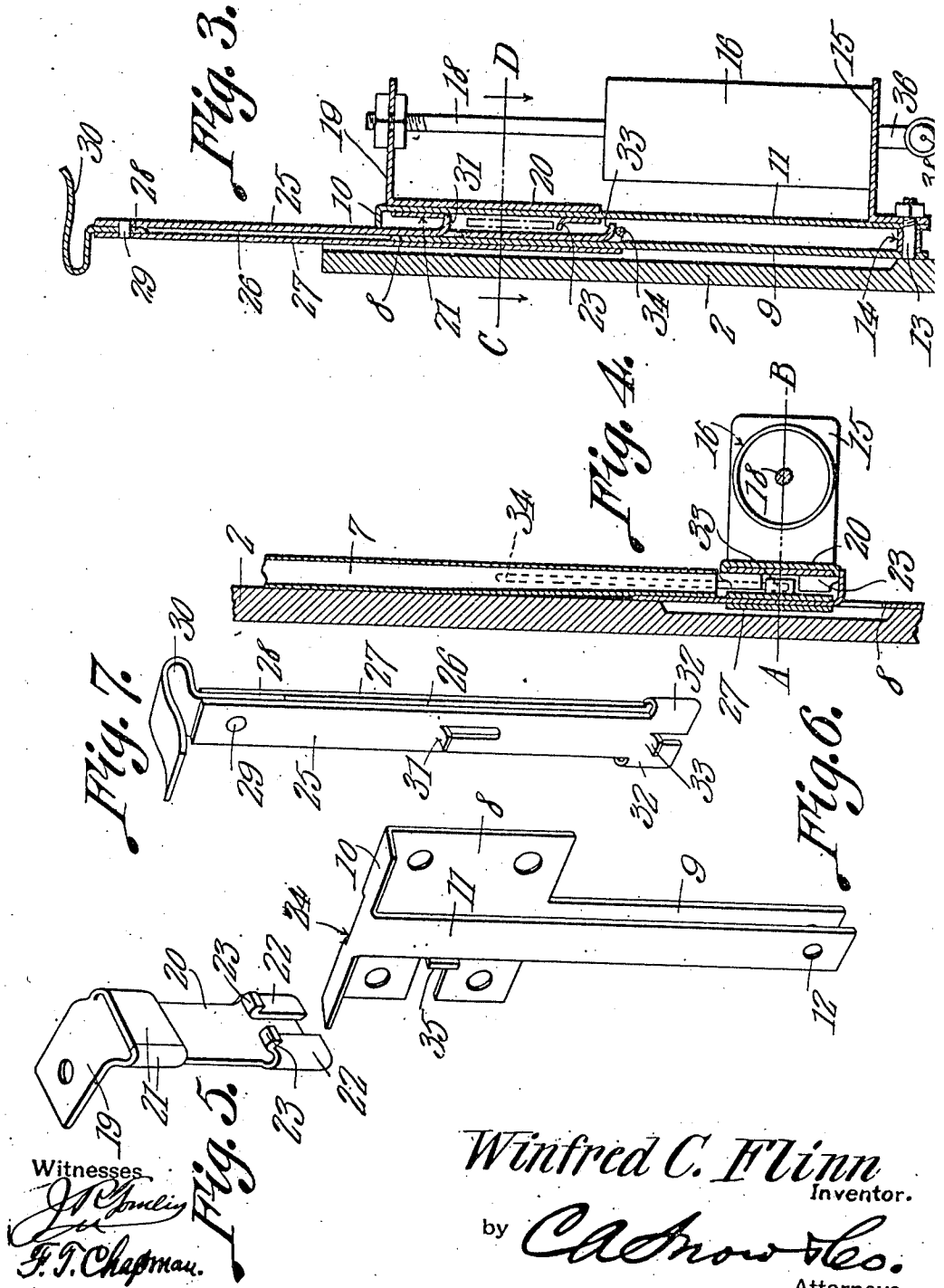
Witnesses
W. C. Flinn
J. T. Chapman

Winfred C. Flinn
 Inventor
 by *Cashow & Co.*
 Attorneys

988,701.

Patented Apr. 4, 191

2 SHEETS-SHEET 2



Winfred C. Flinn
 Inventor.
 by C. A. Snow & Co.
 Attorneys

Witnesses
 J. P. Chapman
 J. P. Chapman

UNITED STATES PATENT OFFICE.

WINFRED C. FLINN, OF BAGNALL, MICHIGAN, ASSIGNOR OF ONE-THIRD TO WILLIAM H. FLINN AND ONE-THIRD TO CHARLES W. FLINN, BOTH OF BAGNALL, MICHIGAN.

PERFUME-VENDING MACHINE.

988,701.

Specification of Letters Patent.

Patented Apr. 4, 1911.

Application filed May 12, 1910. Serial No. 560,954.

To all whom it may concern:

Be it known that I, WINFRED C. FLINN, a citizen of the United States, residing at Bagnall, in the county of Wexford and State of Michigan, have invented a new and useful Perfume-Vending Machine, of which the following is a specification.

This invention has reference to improvements in vending machines and its object is to provide a machine which upon the deposition therein of a suitable coin may be operated to deliver a spray of perfume but which cannot be operated in the absence of the proper coin.

In a machine constructed in accordance with the present invention there is provided a suitable casing, housing a perfume receptacle, provided with a spraying nozzle which is connected by a suitable conduit to an air-pump under the control of a slide which may be actuated by a customer, but which slide is inoperative to the pump except through the intermediary of a suitable coin which latter as soon as the slide has been actuated and starts on its return movement is released to fall into a suitable receptacle so that with the same coin the apparatus cannot be twice actuated.

The invention will be best understood from a consideration of the following description taken in connection with the accompanying drawings forming a part of this specification, in which drawings,—

Figure 1 is a perspective view of the apparatus with the casing in the open position to show the interior. Fig. 2 is a perspective view of the apparatus on a small scale as it appears when ready for use. Fig. 3 is a section on the line A—B of Fig. 4 with the air-pump in elevation. Fig. 4 is a section on the line C—D of Fig. 3. Figs. 5, 6 and 7 are perspective views of parts of the coin-controlled mechanism.

Referring to the drawings there is shown a casing 1 to which is hinged a door 2 constituting the front of the casing, the back 3 of the casing being utilized for securing the casing to a suitable support. In order that access may be had to the casing whenever desired a suitable lock 4 is provided for securing the door when shut and this lock may be of a character to be opened only by the possessor of the proper key.

On top of the casing there is placed a plate 5 through which is a coin slot 6, which plate

extends over the adjacent portion of the door 2 when closed so that the door may not be pried open sufficiently to admit a coin, the door carrying a coin-conduit 7 the upper end of which when the door is closed is immediately below the coin slot 6. At the lower end of the coin conduit there is secured to the door a plate 8 from one side of which there is an extension 9. The edge of the plate 8 remote from the extension 9 is upturned as indicated at 10 and from this upturned portion there is an extension 11 overlying the plate 8 in spaced relation thereto and also extending over the extension 9 in spaced portion thereto, the extension 11 terminating at the terminal end of the extension 9 at which point both the extensions 9 and 11 are traversed by matching passages or perforations 12 for a bolt or stud 13 which between the extensions 9 and 11 may carry a spacing sleeve 14. The end of the bolt 13 beyond the extension 11 serves to secure a bracket 15 to the terminal end of said extension 11.

The bracket 15 carries one end of a cylinder 16 within which is a piston 17 on one end of a piston rod 18 the other end of which is made fast to a bracket 19 having an extension 20 designed to ride along the extension 11 of the plate 8. The extension or leg 20 of the bracket 19 is formed with side wings 21, 21 near the end of the bracket carrying the piston rod 18 and these wings are bent into embracing relation to the extension 11 so as to hold the corresponding end of the bracket thereto. At the other end the leg 20 of the bracket 19 is formed with other wings 22 also bent into embracing relation to the extension 11 but these wings have their free ends spaced apart and at the edges toward the wings 21 the wings 22 are provided with spaced fingers 23, the purpose of which will presently appear. These fingers 23 are designed to move in the space between the matching faces of the extensions 9 and 11 and project toward the extension 9 or plate 8 in accordance with the position of the bracket 19 on the extension 11.

The upturned edge 10 of the plate 8 is formed with a slot 24 in line with the extensions 9 and 11 and this slot is traversed by one member 25 of a slide 26, this slide being made up of the member 25 and another member 27 in sufficiently spaced relation to embrace the plate 8 and extension 9.

of the ends the members 25 and 27 receive between them a spacing plate 28 where the several parts may be joined together by a rivet 29 and the spacing plate 28 is continued into a finger hold 30 by means of which the slide may be manipulated.

At an intermediate point the member 25 of the slide 26 is formed with a short tongue 31 struck up therefrom and the end of the member 25 remote from the finger hold 30 is formed with wings 32 bent into embracing relation to the extension 9 thus not only holding the slide 26 to the extension 9 but these wings by engaging the plate 8 determine the outward movement of the slide 26. At the end of the member 25 formed with the wing 32 there is struck up another tongue 33, the tongues 31 and 33 being in the space between the extensions 9 and 11 and on opposite sides of the tongue 23, of the wings 22 formed on the leg 20 of the bracket 19.

A spring 34 on the door 2 has its free end extended between the members 9 and 11 into engagement with the tongue 33 and tends to maintain the slide 26 in the projected position, this position being determined by the engagement of the wings 32 with the edge of the plate 8. When the parts are in this position the space between the wings 21 and 22 of the leg 20 of the bracket 19 is immediately under the lower end of the coin chute 7. Also in line with the lower end of the coin chute 7 the plate 8 is formed with an outturned tongue 35 so that a coin traversing the chute will fall into the space between the members 9 and 11 and between the wings 21 and 23 until arrested by engagement with the tongue 35. Under these conditions a movement of the slide 26 against the action of the spring 24 will cause the tongue 31 to engage the coin and through the same to connect the slide with the leg 20 of the bracket 19 by the engagement of the coin with the tongues or fingers 23 so that now a continued movement of the slide 26 will cause a like movement of the bracket 19 and the movement of the piston 17 into the cylinder 16, the normal position of this piston being near the outer end of the cylinder 16. If no coin be present then a movement of the slide 26 against the action of the spring 24 will simply result in the movement of the tongue 31 between the separated ends of the wings 22 and the leg 20 of the bracket 19 will not be actuated thus failing to operate the machine.

The discharge end of the cylinder 16 is connected by a pipe 36 to another pipe 37 having at one end a valve 38 of common construction and at the other end connected by a flexible pipe 39 with a spraying head 40 terminating in a nozzle 41 which latter is extended through the door 2 to the outer face thereof. The spraying head 40 is pro-

vided with a cork or stopper 42 adapted to a bottle or container 43 of perfume and this bottle is mounted in a spring clamp 44 fast on the inner face of the door so that the bottle will be held firmly in position but at the same time may be readily disconnected from its holder for refilling, the spraying head 40 and nozzle 41 being readily removed with the bottle, this movement being permitted by the flexible section 39 of the connection between the cylinder 16 and the spraying head 40. Each time the piston 17 is moved into the cylinder 16 air is compressed in the pipe 37, its escape through the lower end of the pipe being prevented by the valve 38 so that the air must pass into the spraying head 40 and out through the nozzle 41 causing the liquid in the bottle 43 to pass out through the nozzle in the form of a spray as is customary in devices of this character. When the piston 17 is retracted the valve usually provided in the spraying head 40 closes and the valve 38 opens permitting the inrush of air without affecting the contents of the bottle or container 43. By this means each time a customer desires to operate the machine to obtain perfume, the proper coin is inserted and then the slide 26 is pushed inward against the action of the spring 34 causing a pressure of air to be produced in the cylinder 16 which, acting through the spraying head, causes a spray of perfume to issue from the nozzle 41. As soon as the pressure is released on the slide 26, the latter returns to normal position under the action of the spring 34 but the bracket 19 does not immediately participate in this movement. The result of this is that a coin grasped between the finger 31 and the fingers 23 is released and falls to a suitable receptacle and it is only when the finger 31 has come in contact with the wings 21, one of which is carried entirely across to the other, does the bracket 19 participate in the return movement of the slide 26. The distance between the wings 21 and the finger 23 is greater than the diameter of a proper coin so that this movement of the slide 26 to release the coin may occur.

The entire vending apparatus is mounted on the door 2 so as to be readily accessible for inspection or repair by simply opening the door.

What is claimed is:—

1. In a machine for vending perfume, a vending mechanism, and a coin-controlled mechanism therefor comprising a slide, parallel guide members therefor, one of which is embraced by the slide and the other of which overrides the slide, and a sliding member on the member overriding the first named slide and connected to the vending side of the machine, the first named slide having a projecting tongue entering the

space between the guide members and the second named slide being provided near one end with a stop member and near the other end with projecting members for engaging a coin lodged between the last named projecting members and the projecting member of the first named slide.

2. In a perfume vending machine, a vending mechanism, and a coin-controlled actuating mechanism therefor comprising a plate having two extended parallel members formed thereon and also having thereon a stop member for a coin, an actuating slide formed of two spaced members in embracing relation to the plate and one of the guide members thereon, said slide being provided with an intermediate projecting tongue extending into the space between the guide members on the plate, and another slide

member having wings embracing the guide member opposite that embraced by the first slide, said second named slide being connected to the vending side of the machine and provided with spaced wings embracing the guide member carrying it, the wings being spaced apart for the insertion of a coin and the wings at one end being in spaced relation one to the other and provided with coin-engaging fingers, and a spring engaging the first named slide and tending to hold the same in operative position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WINFRED C. FLINN.

Witnesses:

F. G. BULLOCK,

F. A. FREDERICK.