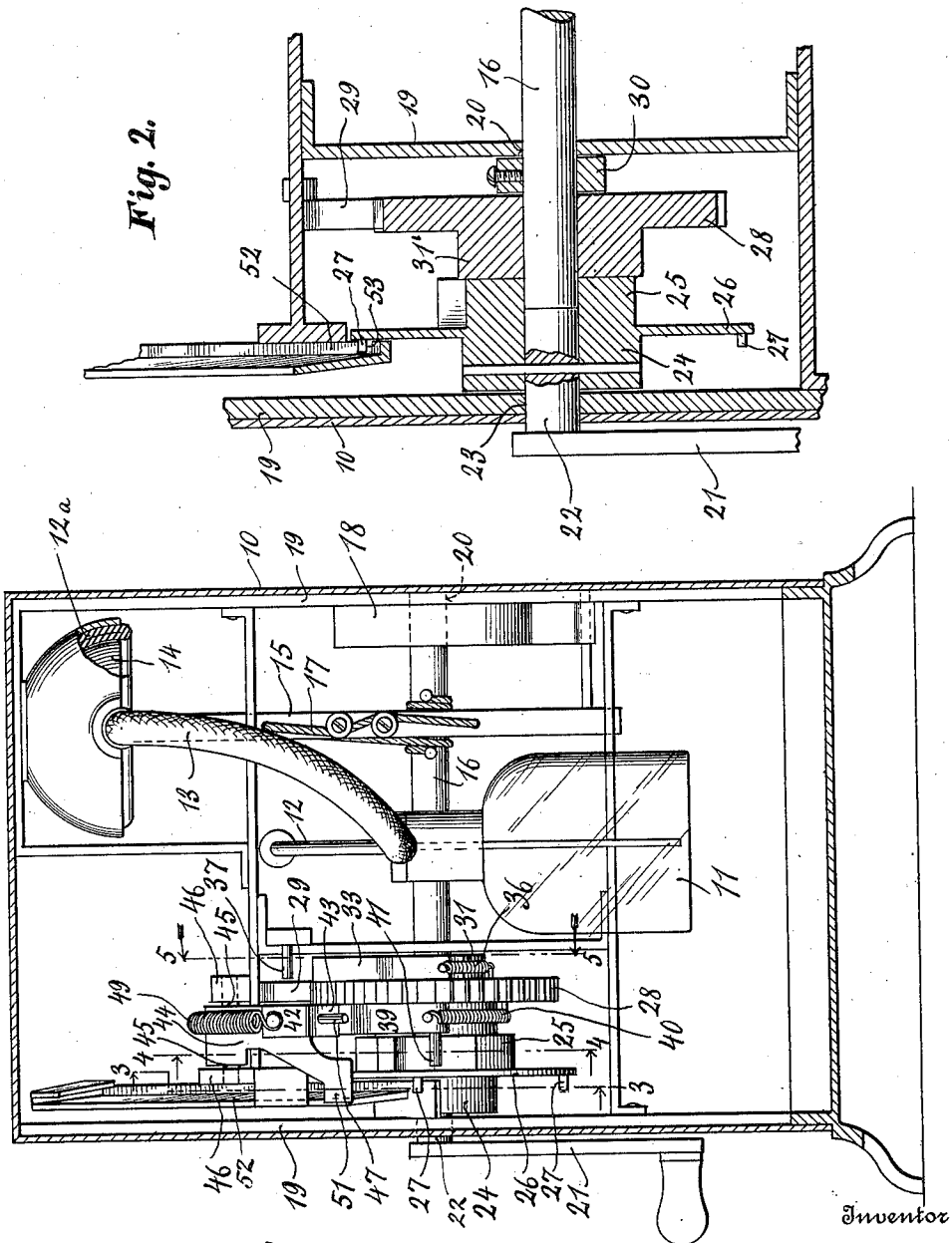


P. POVLOTZKY,
MACHINE FOR VENDING LIQUID PERFUMERY.
APPLICATION FILED OCT. 27, 1911.

1,032,423.

Patented July 16, 1912.

2 SHEETS—SHEET 1.



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Fig. 1.

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Fig. 3.

Fig. 4.

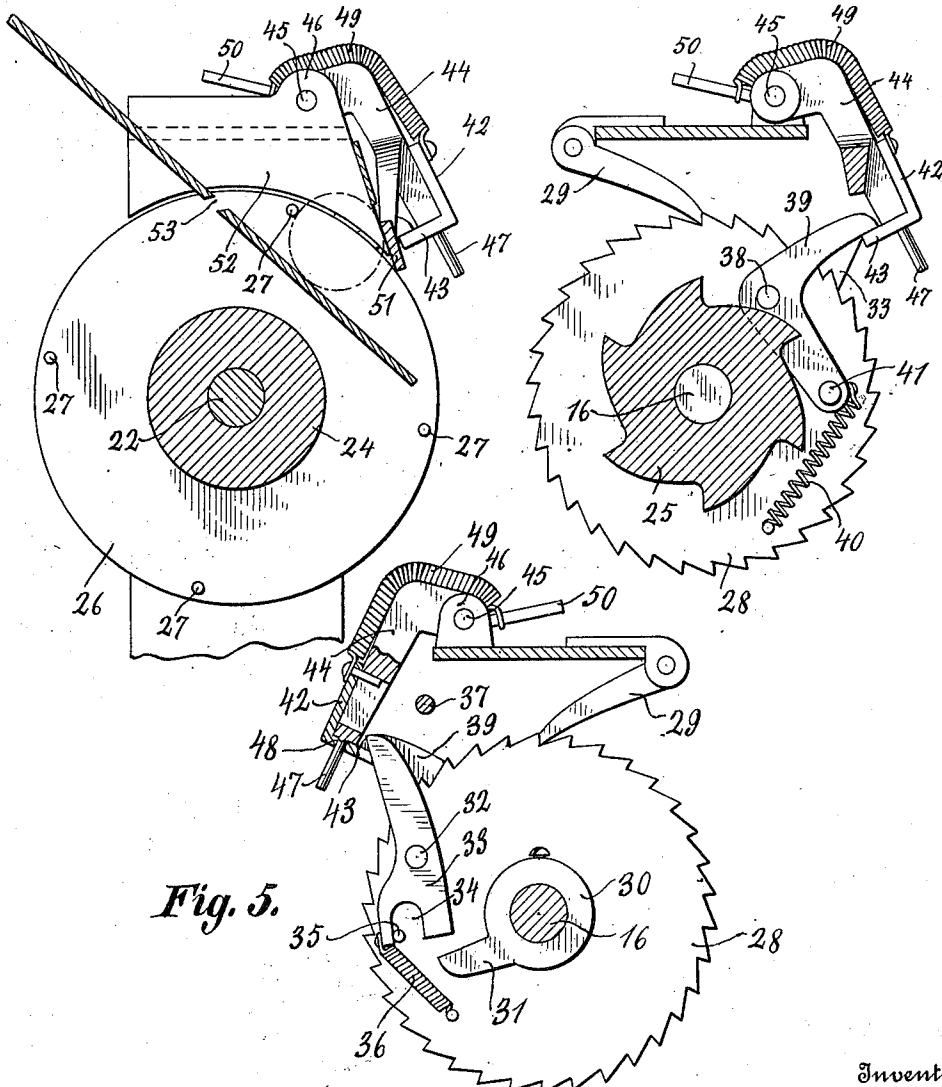


Fig. 5.

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PHILIP POVLOTZKY, OF CHICAGO, ILLINOIS.

MACHINE FOR VENDING LIQUID PERFUMERY.

Specification of Letters Patent.

Patented July 16, 1912.

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To all whom it may concern:

Be it known that I, PHILIP POVLOTZKY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Machines for Vending Liquid Perfumery, of which the following is a specification.

The mechanism which is the subject of the present invention is designed more particularly for controlling a device which delivers a spray of liquid perfume.

It is the object of the invention to provide a simple, reliable and efficient mechanism of the kind stated, and to this end it consists in a novel construction and arrangement of parts to be hereinafter described and claimed.

In order that the invention may be better understood, reference is had to the accompanying drawings, in which—

Figure 1 is an elevation of the mechanism, the casing inclosing the same being shown in section. Fig. 2 is a longitudinal section drawn to an enlarged scale. Figs. 3, 4 and 5 are transverse sectional views on the lines 3—3, 4—4 and 5—5, respectively, of Fig. 1.

Referring specifically to the drawings, 10 denotes a suitable casing which incloses the delivery apparatus and the coin-controlled means for actuating the same. The delivery apparatus, in the present instance, is designed to deliver a spray of perfume by means of an atomizer. The perfume is contained in a bottle or other suitable receptacle 11. The delivery nozzle 12 connected to the bottle extends through an aperture in the front wall of the casing. The air pressure for operating the atomizer is obtained by means of a bulb 12^a connected by a tube 13 to the bottle as in an ordinary atomizer. The bulb is operated by a presser plate 14 carried by a reciprocatory stem 15, which latter is connected to a shaft 16 by cords or other flexible means 17, said means being wound on the shaft in such a manner that when the shaft is rotated in one direction the stem is pulled down, and upon releasing the shaft the stem is shot upwardly to compress the bulb, this latter action being effected by means of a spiral spring 18 suitably connected to the shaft. When the shaft is rotating in a direction to lower the stem, the spring is wound up, and when the shaft is released the spring rotates it in a reverse direction and through the means 17 shoots the stem upward.

The following coin-controlled means are provided for operating the shaft 16: The casing 10 contains a suitable supporting frame 19 having bearing apertures 20 in which the shaft 16 is journaled. To one end of the shaft is loosely fitted a crank handle 21, the latter being located outside the casing. The hub 22 of the crank handle is journaled in registering openings 23 in the frame 19 and the adjacent side wall of the casing. On the hub 22 is pinned or otherwise fastened the hub 24 of a ratchet wheel 25 which has on one side a disk 26 carrying near its periphery laterally projecting pins 27. The hub 22 does not extend entirely through the bore of the hub 24 so that the end of the shaft 16 may extend into said bore in axial alinement with the hub 22, as shown in Fig. 2.

On the shaft 16, alongside the ratchet wheel 25, is loosely mounted a ratchet wheel 28 which is engageable by a pawl 29 to prevent reverse motion, said pawl being carried by the frame which supports the mechanism. To the shaft 16 is also pinned, or otherwise made fast, a sleeve 30 having a radially projecting arm 31, and located alongside the ratchet wheel 28, the latter being thus located between the sleeve 30 and the ratchet wheel 25, and spaced from the latter by an elongated hub 31'. To that side of the ratchet wheel 28 which is adjacent to the sleeve 30 is pivoted, as indicated at 32, a dog 33 having a recess 34 in its inner end into which recess extends a pin 35, whereby the movement of the dog about its pivot is limited. A spring 36 connected at one of its ends to the ratchet wheel 28, and at its other end to the dog, holds the latter in a position where its inner end is in the path of the arm 31, so that when said arm is engaged by the dog as the ratchet wheel 28 is rotating, the motion will be communicated through the sleeve 30 to the shaft 16. The supporting frame carries a pin or other abutment 37 which is in the path of the outer end of the dog, and upon engaging the same, the dog is tripped so that its inner end swings away from the arm 31, thereby releasing the shaft 16.

Inasmuch as the ratchet wheel 28 is loose on the shaft 16, means must be provided for coupling said ratchet wheel to the parts carried by the crank handle 21. These means are coin-controlled, and comprise the following instrumentalities: To that side of the

ratchet wheel 28 opposite that which carries the dog 33, is pivoted, as indicated at 38, an angle lever 39 having a spring 40 connected to one of its branches for swinging it in one direction. This branch of the lever carries a laterally extending pin 41 which is so located that it extends into the path of the teeth of the ratchet wheel 25 when the lever is released and its end which carries the pin is swung toward said teeth by the action of the spring 40. A device is provided for normally holding the lever in a position where the pin 41 is out of the path of the teeth of the ratchet wheel 25. The holding device referred to is a dog 42 having a hooked end 43 which is adapted to engage that end or branch of the lever 39, which is opposite the end carrying the pin 41. The dog 42 is carried by a rocking frame 44 having trunnions 45 whereby it is journaled in bearings 46 carried by the supporting frame. From the free end of the frame 44 projects a stem 47 which passes loosely through an aperture 48 in the hooked end 43 of the dog. The dog is slidably mounted on the frame 44 and is guided by the stem 47. A spring 49 connected at one of its ends to the dog and at its other end to a pin 50 carried by the frame, yieldingly holds the hooked end of the dog in engagement with the lever 39 as clearly shown in Fig. 4.

The dog 42 is actuated by a coin and other parts cooperating therewith, to release the lever 39, and enable the latter to bring the pin 41 into the path of the teeth of the ratchet wheel 25. This mechanism is constructed and arranged as follows: From one side of the frame 44, at its free end, projects laterally an arm 51 which normally extends across the lower end of a coin-chute 52, said chute extending along that side of the disk 26 from which the pins 27 project. In the bottom of the coin-chute is an aperture 53 through which the pins 27 enter the chute. The coin-chute leads from a slot in the front wall of the casing, through which slot the coin is inserted.

The mechanism operates as follows: A coin deposited in the coin-chute 52 rolls or slides down the same until it is stopped by the arm 51. If now the crank handle 21 is operated, the disk 26 is rotated, and when one of the pins 27 comes behind the coin as shown in Fig. 3, said coin is thrust against the frame 44 and swings the same outwardly, whereupon the hooked end 43 of the dog 42 slips away from the lever 39, and the latter is swung by the spring 40 to place the pin 41 in the path of the teeth of the ratchet wheel 25, the pin thus acting as a pawl. Inasmuch as the lever 39 is carried by the ratchet wheel 28, and the ratchet wheel 25 turns with the crank handle, the motion of the latter is now transmitted to the shaft 16 by the engagement of the dog 33 with the

arm 31 of the sleeve 30. This motion of the shaft pulls down the stem 15, and when the dog 33 reaches the abutment 37 it is tripped to release the shaft, and the latter is rotated in a reverse direction by the spring 18, thus shooting the stem upward to compress the bulb 12^a and operate the atomizer. As soon as the lever 39 clears the hooked end of the dog 42, the latter drops back by gravity to its normal position and re-locates the part 43 so as to engage the lever 39 when the latter reaches the same, the release of the shaft 16 taking place just before this position is reached. The spring 49 yieldingly holds the dog 42 so that if the shaft should not be released when the lever 39 again reaches the dog, the crank handle can be turned a slight distance forward until the dog 33 is tripped to release the shaft. The coin drops out of the chute before the spraying action begins, and hence does not impede the motion of the mechanism. The crank handle can be turned in either direction when there is no coin in the chute, and after the coin has dropped. The crank handle can also be turned back after the pin 41 has engaged the ratchet wheel 25, as the pin is free to slip over the teeth of the latter. If a coin is in the slot and the crank handle is turned back, the coin will merely slip back and forth in the chute without actuating the dog 42.

The mechanism will also be provided with the usual fraud-preventing device, and the casing may contain a suitable receptacle into which the coins drop.

It will be evident from the foregoing that there is provided a coin-controlled mechanism which is devoid of complicated parts to get out of order, and it is therefore reliable in operation.

The preferred embodiment of the invention has been shown, but it is to be understood that various minor changes in the structural details may be made without a departure from the spirit and scope of the invention.

I claim:

1. In a coin-controlled mechanism, a rotatable shaft, operating means for the shaft, actuating means for said operating means normally disconnected therefrom, a member for connecting said means, a holder engageable with said member, said holder being engageable by a coin, and normally holding the connecting member in inoperative position, and means for thrusting a coin against said holder to release the aforesaid connecting member.

2. In a coin-controlled mechanism, a rotatable shaft, operating means for the shaft, actuating means for said operating means normally disconnected therefrom, a member for connecting said means, a holder engageable with said member, said holder being engageable by a coin, and normally holding

the connecting member in inoperative position, and means carried by the aforesaid actuating means for thrusting a coin against said holder to release the aforesaid connecting member.

3. In a coin-controlled mechanism, a rotatable shaft, operating means for the shaft, actuating means for said operating means normally disconnected therefrom, a member 10 for connecting said means, a holder engageable with said member, said holder being engageable by a coin, and normally holding the connecting member in inoperative position, means for thrusting a coin against said 15 holder to release the aforesaid connecting member, and means for disconnecting the aforesaid operating and actuating means.

4. In a coin-controlled mechanism, a rotatable shaft, a radial arm fixed to the shaft, 20 a rotatable member loose on the shaft, a dog carried by said member, into the path of which dog the arm extends to engage the same, coin-controlled means for actuating the aforesaid member, and an abutment in 25 the path of the dog for disengaging the same from the arm.

5. In a coin-controlled mechanism, a rotatable shaft, operating means for the shaft, said means including a rotatable member, 30 an actuating means for the operating means, said actuating means comprising a rotatable toothed member, a pivoted pawl carried by the first-mentioned rotatable member, and a coin-controlled pivoted member engageable with the pawl for holding it in inoperative position. 35

6. In a coin-controlled mechanism, a rotatable shaft, operating means for the shaft, said means including a rotatable member, 40 and actuating means for the operating means, said actuating means comprising a rotatable toothed member, a pivoted pawl carried by the first-mentioned rotatable member, a coin-chute, a pivoted member extending across the coin-chute and having 45 means for holding the pawl in inoperative position, means for thrusting a coin against said pivoted member to move the same out of engagement with the pawl, and means for 50 placing the pawl in operative position with respect to the toothed member when thus released.

7. In a coin-controlled mechanism, a rotatable shaft, operating means for the shaft, 55 said means including a rotatable member, and actuating means for the operating

means, said actuating means comprising a rotatable toothed member, a pivoted angle lever carried by the first-mentioned rotatable member, a pin carried by one end of 60 the lever, and a pivoted coin-controlled member engageable with the other end of the lever, the aforesaid pin engaging the toothed member when the lever is released.

8. In a coin-controlled mechanism, a rotatable shaft, operating means for the shaft, 65 said means including a rotatable member, and actuating means for the operating means, said actuating means comprising a rotatable toothed member, a pivoted pawl 70 carried by the first-mentioned rotatable member, and a coin-controlled member having yielding means engageable with the pawl for holding it in inoperative position.

9. In a coin-controlled mechanism, a rotatable shaft, operating means for the shaft, 75 actuating means for said operating means normally disconnected therefrom, a member for connecting said means, a coin-chute, a pivoted holder engageable with said member 80 and extending across the coin-chute, and a rotatable member having means for thrusting a coin in the chute against the holder to release the member which it engages.

10. In a coin-controlled mechanism, a rotatable shaft, operating means for the shaft, 85 actuating means for said operating means normally disconnected therefrom, a member for connecting said means, a coin-chute, a pivoted holder engageable with said member 90 and extending across the coin-chute, and a rotatable member having outstanding pins engageable with a coin in the chute for thrusting the same against the holder to release the member which it engages. 95

11. In a coin-controlled mechanism, a rotatable shaft, a radial arm fixed to the shaft, a rotatable member loose on the shaft, a pivoted dog carried by said member, into 100 the path of which dog the arm extends, means for tripping the dog to clear the arm, a rotatable toothed member, a pawl carried by the first-mentioned rotatable member and adapted to engage the toothed member, and coin-controlled means for holding the pawl 105 in inoperative position.

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

PHILIP POVLOTZKY.

Witnesses:

NATHAN BRUCKMAN,
H. G. BATCHELOR.