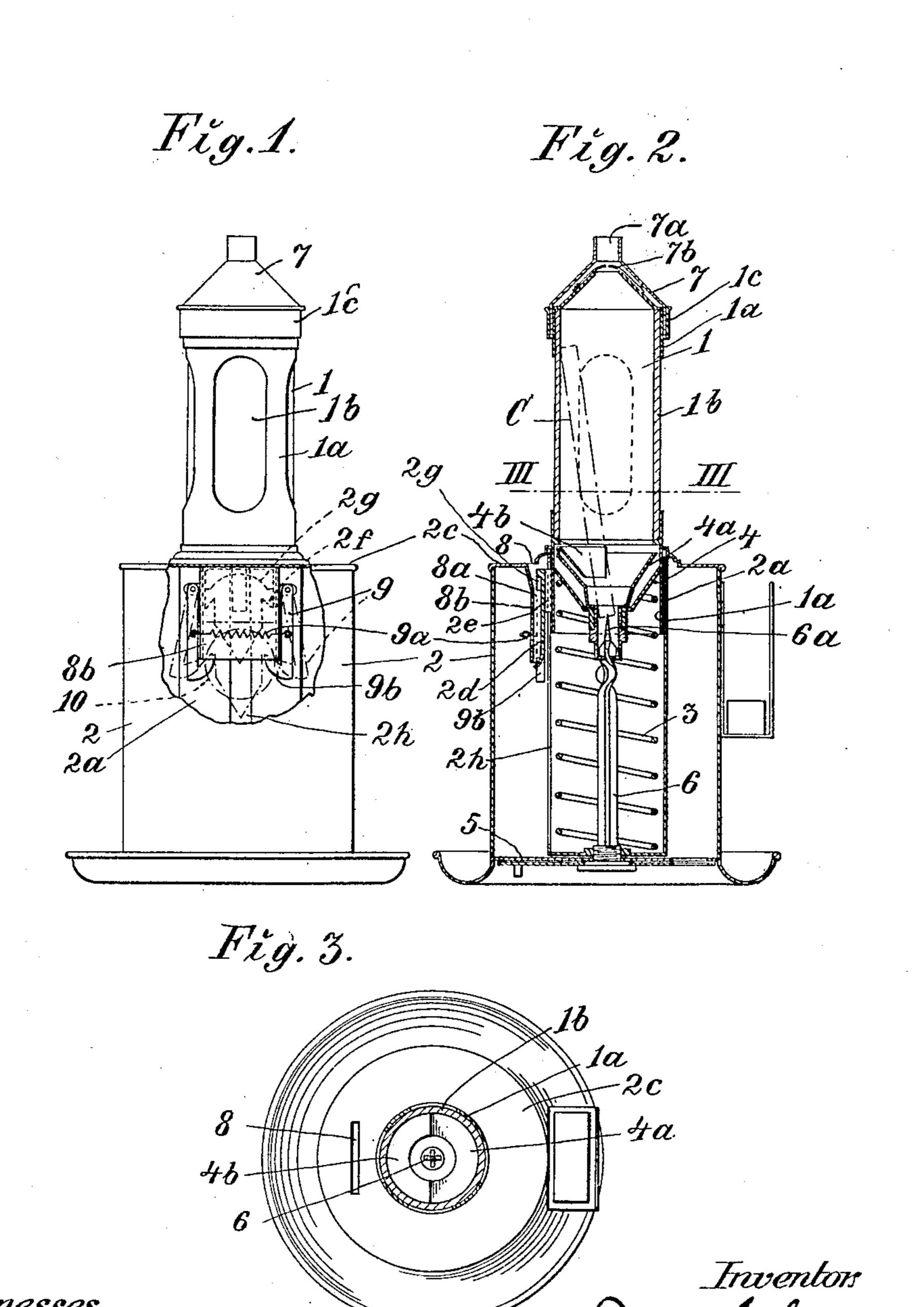
J. SAHLIN.

COIN CONTROLLED VENDING APPARATUS FOR CIGARETTES AND THE LIKE.

APPLICATION FILED DEC. 31, 1907.

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Patented Nov. 24, 1908.



Witnesses P.E. Barus. L.J. Sheehyfr.

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UNITED STATES PATENT OFFICE.

JONAS SAHLIN, OF STOCKHOLM, SWEDEN.

COIN-CONTROLLED VENDING APPARATUS FOR CIGARETTES AND THE LIKE.

No. 905,003.

Specification of Letters Patent.

Patented Nov. 24, 1908.

Application filed December 31, 1907. Serial No. 408,836.

To all whom it may concern:

Be it known that I, Jonas Samlin, a citizen of the Kingdom of Sweden, residing | 4ª and may be provided with a point 6ª in at Stockholm, Sweden, have invented new 5 and useful Improvements in Coin-Controlled Vending Apparatus for Cigarettes and the Like, of which the following is a specification.

This invention relates to improvements __10-in-coin-controlled vending apparatus for

cigarettes and the like.

The object of the invention is to provide a single and reliably working vending apparatus, by means of which it is possible 15 to sell cigarettes and the like piece by piece.

The invention consists, chiefly, in the combination of a holder movable up and down and having a perforate bottom, in which the eigarettes are placed, a fixed push rod 20 entering through the bottom of the said holder when the latter is moved downwards and pushing out a cigarette through an opening in the cover of said holder, and a coin-mechanism locking the said holder so 25 as to prevent the latter from being moved downwards until the coin has been dropped down into the coin-mechanism.

In the accompanying drawing I have shown one embodiment of my invention.

30 Figure 1 shows a side-elevation of the apparatus, the casing being partly broken away to show the coin-mechanism. Fig. 2 is a vertical section of the apparatus, and Fig. 3 shows a plan-view and sectional view 35 on line III—III in Fig. 2.

The apparatus comprises a holder 1 in which the cigarettes C (Fig. 2) or other subjects to be sold are placed in an upright or substantially upright position. The said holder, which may consist of an outer perforated metal-casing 1ª and an inner glasscylinder 1b, is movable up and down in a suitable frame or casing which may be composed of two cylindrical parts 2 and 2a, the inner of which serves as a guide for the holder 1. A coil spring, or the like, 3 tends to keep the holder 1 in the uppermost position. The bottom of the holder may, preferably, consist of two funnels 4 and 4a, the 50 outer one 4 being rigidly secured to the metal-casing 1a, and the inner one 4a being rotatable for the purpose hereinafter set forth. To the bottom 5 of the apparatus is secured an upright push-rod 6 which, as is shown, may be cruciform in cross-section. The upper end of said push-rod enters | plate 2d forces down the coin 10 (Fig. 1)

through a correspondingly shaped opening in the bottom of the said rotatable funnel order to insure the delivering of the ciga- 60 rettes. The upper end of the push-rod 6 is turned as a cork-screw, preferably in two. opposite directions, so as to cause the inner bottom 4a or funnel to rotate first in the one direction and then in the other when the 65 holder 1 is pressed down. When the said bottom 4a is thus rotated a wing 4b rigidly secured thereto will move the lower ends of the cigarettes sidewise, thereby preventing them to lock each other above the neck of 70 the funnel-shaped bottom, whereby it will be insured that in every case one cigarette places itself just above the neck of the bottom, so that it can be caught by the push-rod 6. The cover 7 of the holder 1 is like-wise 75 conical in order that the top of the cigarette caught by the push-rod may easily slide towards the central opening 7a of the cover when the holder is pressed down. The said opening may be closed by means of spring- 80 plates 7b, or the like, which permit the cigarettes to pass upwards through the opening 7a when the holder 1 is pressed down, but prevent the cigarettes from being taken out in other manner. The lower edge of the 85 cover may be inserted in an annular recess, or the like, 1° of the metal-casing 1° as is shown.

The coin-mechanism shown comprises a coin-slot 8, a coin-chute 8ª formed between a 90 plate 8b, rigidly secured to the annular cover 2° of the casing 2—2°, and a plate 2° rigidly secured to the holder 1 by means of a stud 2° engaging a longitudinal slot 2h of the cylinder 2a. Further the coin-mechanism com- 95 prises two arms 9 pivoted to the cylinder 2ª and connected to each other by means of a spring 9a. The lower ends of said arms 9 are formed with hooks 9b adapted to engage corresponding portions 2^t of the said plate 100 2d so as to prevent the holder from being pressed down until a coin has been dropped down into the coin-mechanism.

The apparatus described above works as follows: When a coin of the determined size 105 is dropped down through the coin-slot into the coin-chute it will be arrested therein by the hooks 9b of the arms 9, the latter taking up the position shown by full lines in Fig. 1. When the holder is thereupon pressed down 110 a suitably curved edge or flange 2g on the

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between the said hooks 9b turning the arms 9 outwards as is shown by dotted lines in Fig. 1, so as to permit the hookshaped portions 2f to pass freely down-5 wards past the hooks 9b. A cigarette will simultaneously be pushed up to a certain extent through the opening of the cover 7 and will be kept in such position by the springplates 7^b while the holder 1, after having 10 been released, moves upwards, whereupon the cigarette can be easily taken out by the hand. When the plate 2^d has passed the hooks 9b in the upward movement of the holder 1, the arms 9 will return into their 15. locking position by the action of the spring 9a.

For the coin-mechanism above described any other suitable or well known mechanism may be substituted, as will be easily undero stood by those skilled in the art, and also for the means shown for moving the lower ends of the cigarettes sidewise other suitable

means may be used.

Having now described my invention, what 25 I claim as new and desire to secure by Letters Patent is:

1. In a vending apparatus, the combination of a reciprocatory holder for articles to be vended, open at its ends, a push-rod ar-30 ranged to enter through the inner end of the holder and also arranged to push out an article from the holder when the holder is moved inward, a rotatable device in the holder, arranged to move articles laterally 35 in said holder, and means on the push-rod arranged to coöperate with and turn said rotatable device incident to inward movement of the holder.

2. In a vending apparatus for cigarettes and the like, the combination of a holder movable up and down and having perforate cover and bottom, a rotatable funnel arranged in the lower portion of the holder and carrying a wing, a fixed push-rod enter-ing through the said bottom of the holder

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and the rotatable funnel and adapted to push out a cigarette through the cover of the holder incident to downward movement of the latter, and means on the rotatable funnel cooperating with means on the fixed push- 50 rod for rotating the former by the latter incident to downward movement of the holder.

3. In a vending apparatus for cigarettes and the like, the combination of a holder 55 movable up and down and having perforate cover and bottom, a rotatable funnel arranged in the lower portion of the holder and carrying a wing, and a fixed push-rod entering through the said bottom of the 60 holder and the rotatable funnel and adapted to push out a cigarette through the cover of the holder incident to downward movement of the latter; the said push-rod having a -spiral portion arranged to rotate the said 65 funnel incident to downward movement of the holder.

4. In a vending apparatus for cigarettes and the like, the combination of a holder movable up and down and having perforate 70 cover and bottom, a rotatable funnel arranged in the lower portion of the holder and carrying a wing, and a fixed push-rod entering through the said bottom of the holder and the rotatable funnel and adapted 75 to push out a cigarette through the cover of the holder incident to downward movement of the latter; the said push-rod terminating at its upper end in a point and being provided below said point with a spiral portion 80 arranged to rotate the said funnel incident to downward movement of the holder.

In testimony whereof I have signed my name to this specification in the presence of

two subscribing witnesses.

JONAS SAHLIN.

Witnesses: EVALD DELMAR, HILDEN HÁKANSON.