

A. F. VORCE.
 PERFUME VENDING MACHINE.
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955,723.

Patented Apr. 19, 1910.

Fig. 1.

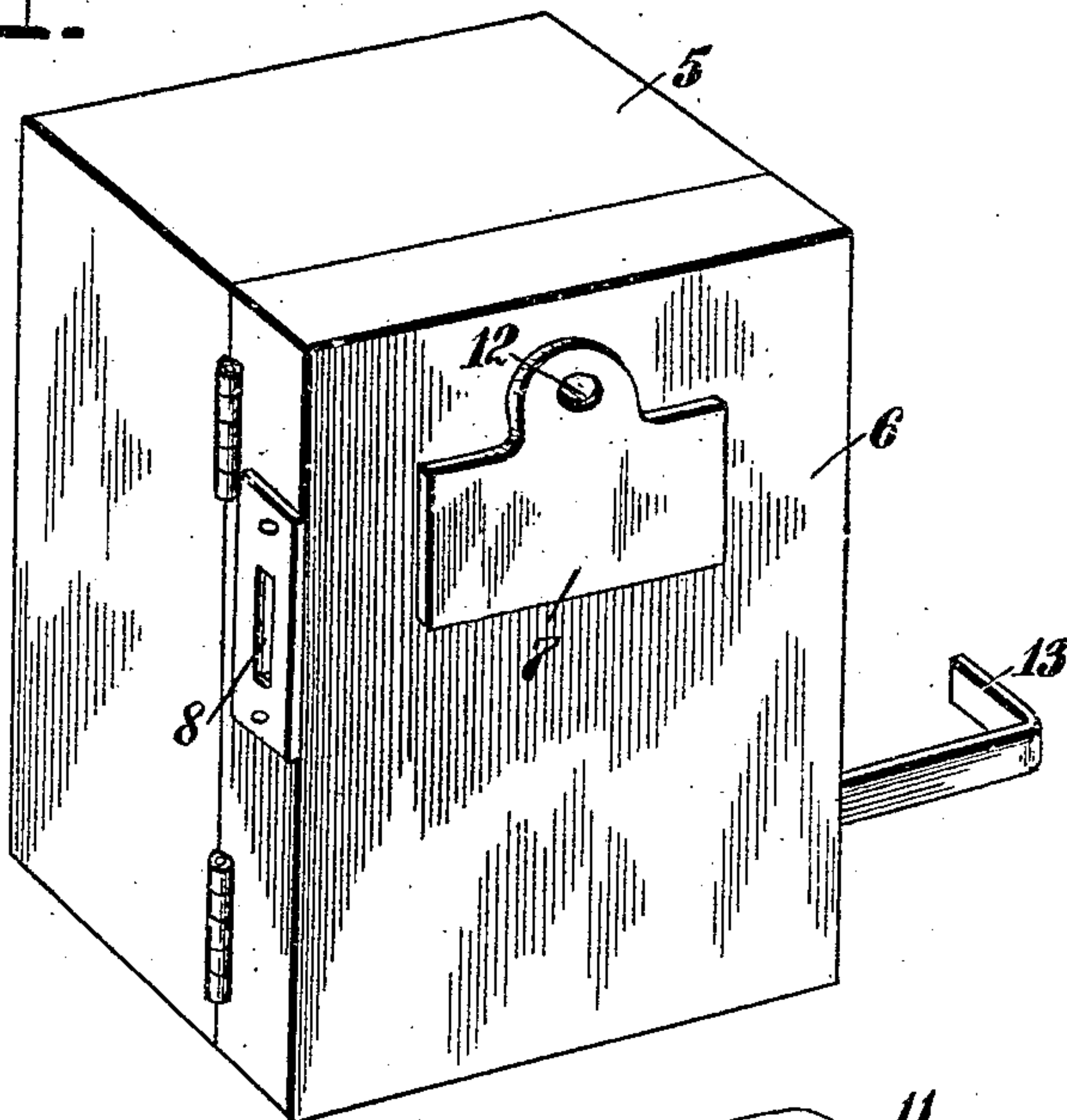


Fig. 4.

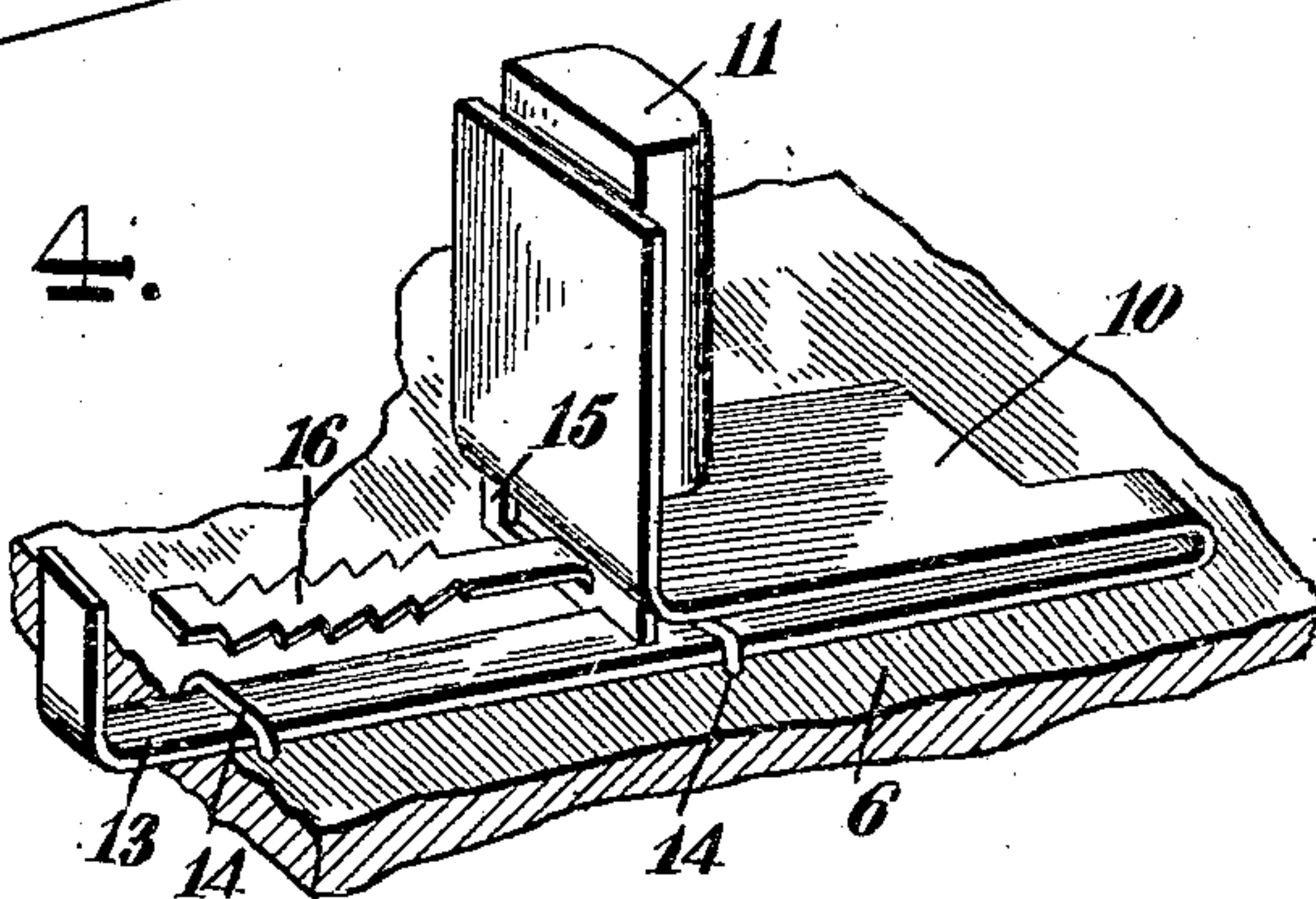


Fig. 2.

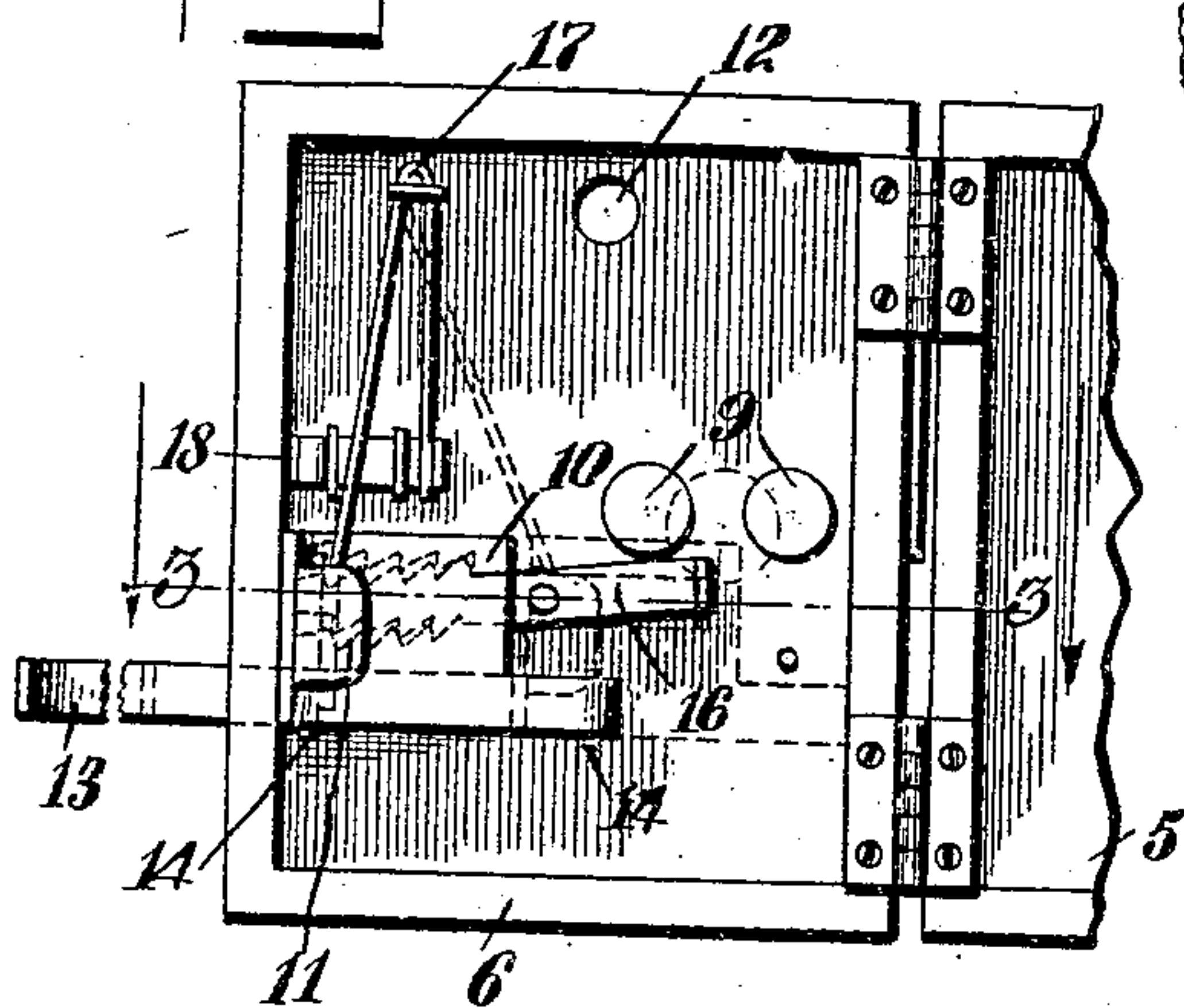
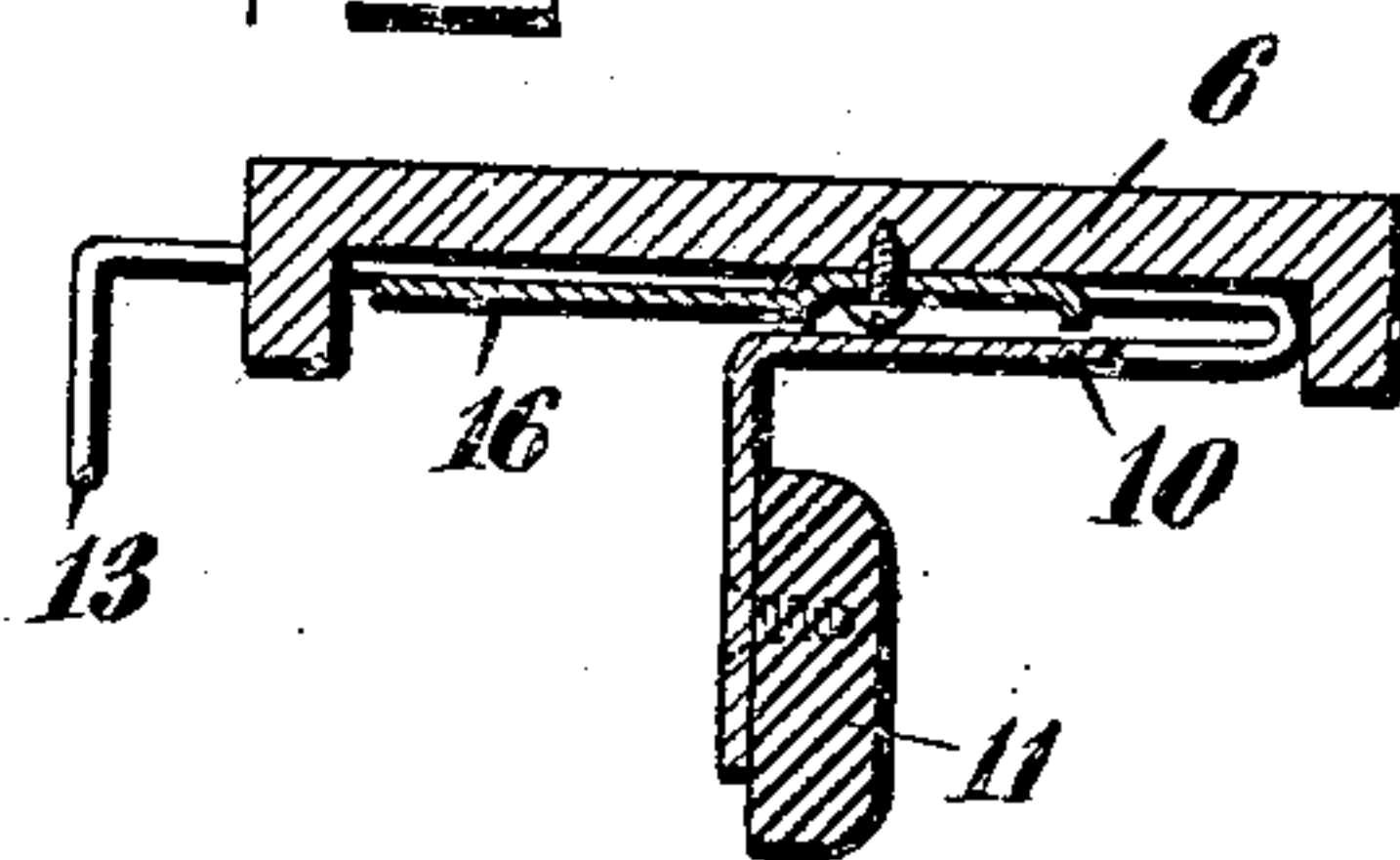


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

ALBERT FRANK VORCE, OF BENZONIA, MICHIGAN.

PERFUME-VENDING MACHINE.

955,723.

Specification of Letters Patent.

Patented Apr. 19, 1910.

Application filed July 2, 1909. Serial No. 505,610.

To all whom it may concern:

Be it known that I, ALBERT FRANK VORCE, a citizen of the United States, and a resident of Benzonia, in the county of Benzonia and State of Michigan, have invented a new and Improved Perfume-Vending Machine, of which the following is a full, clear, and exact description.

The invention is an improvement in vending machines to dispense perfumery, and has in view a bulb presser for the usual atomizer, with check-controlled means to lock the presser in successive positions against retraction in its advanced movement, automatically released as the bulb is pressed, and to lock the presser in successive positions against an advanced movement in its retraction, whereby the presser cannot be withdrawn until the advanced movement is completed, nor be advanced after being partially retracted, which prevents the operator from receiving but one spray for each check or coin.

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 views.

Figure 1 is a perspective view of a perfume vending machine constructed in accordance with my invention; Fig. 2 is an inside view of the door of the casing, showing the bulb presser and the controlling means therefor; Fig. 3 is a section on the line 3—3 of Fig. 2; and Fig. 4 is a fragmentary perspective view, showing the bulb presser on an enlarged scale.

In the construction of my improved vending machine I preferably provide a box or casing 5 having a door 6 at the front, the door being provided with a name-plate 7 arranged on the upper portion of its outer face and a coin slot 8 at its hinged edge, the said slot being located slightly above a pair of headed guide pins 9 spaced apart sufficiently to admit of a check or coin of the size required to operate the machine, to pass between them. Below the guide pins 9 for the coin is slidably supported in a horizontal position, a presser 10 for the bulb of the atomizer in which the perfumery is contained, the atomizer, which is not shown, being suitably arranged in the box, with the bulb positioned between the presser block 11 of the presser and one side of the box, and the nozzle of the atomizer projecting slightly

to the outside of the box through an aperture 12 in the name-plate 7. For advancing the presser block 11 against the bulb is a push-bar 13 passing through that side of the door opposite the coin slot and slidable in staples or other suitable keepers 14, the push-bar and presser being shown to be constructed of a single piece of sheet metal by bending the inner end portion of the bar upon itself to extend in the opposite direction parallel to the door, with the reversely turned portion of increased width and having its end turned outwardly from the door to extend into the body of the box and to which the presser block 11 is suitably applied. The push-bar 13 and the presser are connected together at or near the point of the outwardly-turned portion by a bridge-piece 15 having a vertical slot through which passes a check or coin-controlled lever 16, the lever being fulcrumed intermediate its length to the door, with one end projecting under the coin guide afforded by the pins 9, and the opposite end having a series of teeth at each edge, as clearly shown in Fig. 4, the teeth at the upper edge of the bar having vertical shoulders facing the coin slot and the teeth at the opposite side of the lever having similar shoulders facing in the opposite direction. The bulb presser and the push-bar are normally forced to a retracted position by a hairpin spring 17, one arm of which bears on the presser on the inside of the presser block, and the other bearing on a slidable latch 18 designed to lock the door of the box.

The operation of the machine is as follows: A coin or check is deposited in the slot 8, generally a penny, the latter dropping down between the pins 9 and resting on the controlling lever 16. The weight of the coin throws the tooth end of this lever upwardly and engages the teeth at its top edge with the top edge or shoulder of the bridge-piece. The push-rod can now be forced inwardly but cannot be retracted until the completion of the inward movement of the presser block, when the bulb of the atomizer is pressed, by reason of the locking of the presser against retraction in successive positions by the engagement of the upper teeth with the said shoulder. At the completion of the advanced movement of the presser the coin-engaged end of the lever moves down sufficiently to release the coin, and the tooth end of the lever drops under its own weight and engages the teeth at the bottom edge with the

lower edge or shoulder of the bridge-piece 15, which locks the push-bar and presser against advancement in successive positions as the same are retracted, whereby it is im-
 5 possible to obtain more than one spray of the perfume with one coin.

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

10 1. The combination in a vending machine, of a casing, a push-bar slidably supported in the casing and projecting to the outside thereof in a position accessible for manual operation, a check guide, a member secured
 15 to the push bar, having shoulders arranged one above the other, and a lever fulcrumed intermediate its length, with one arm projecting under the check-guide and the opposite arm having teeth adapted to engage one
 20 shoulder of the said member under the weight of this arm of the lever and having teeth to engage the other shoulder of the said member when this arm of the lever is raised under the weight of the check resting on the
 25 other arm.

2. The combination in a vending machine, of a casing, a push-bar slidable in the casing and projecting to the outside thereof in a position accessible for operation, a presser
 30 carried by the push-bar, a check-guide, and a lever fulcrumed intermediate its length having one arm projecting under the check-guide and the opposite arm having teeth at one side adapted to engage the presser and

lock it in successive positions against re- 35 traction as it is advanced by the push-bar, and having teeth at the opposite side to engage the presser and lock it in successive positions against advancement as the presser is retracted. 40

3. The combination in a vending machine, of a push-bar bent upon itself at its inner end and slidably supported, with the ex-
 45 tremity of the bent portion outwardly turned and provided with a presser block, a bridge-piece securing the push-bar and said bent portion together adjacent to the presser block and having a vertical slot, a check guide, and a lever fulcrumed intermediate its length
 50 and passing through the slot of the bridge-member, with one arm of the lever projecting under the check guide to receive the check and the other arm of the lever having
 55 teeth at its bottom and top edges to respectively engage with the lower and upper edges of the slotted bridge-piece, the teeth at the upper edge of the lever having up-
 60 right edges facing the coin guide, and the teeth at the lower edge of the lever having similar edges facing in the opposite di-
 rection.

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

ALBERT FRANK VORCE.

Witnesses:

H. B. WOODWARD,

MATTIE E. MARSHALL.