

(No Model.)

C. H. BINGHAM.

VENDING APPARATUS FOR CIGARS, CIGARETTES, &c.

No. 368,869.

Patented Aug. 23, 1887.

Fig. 1.

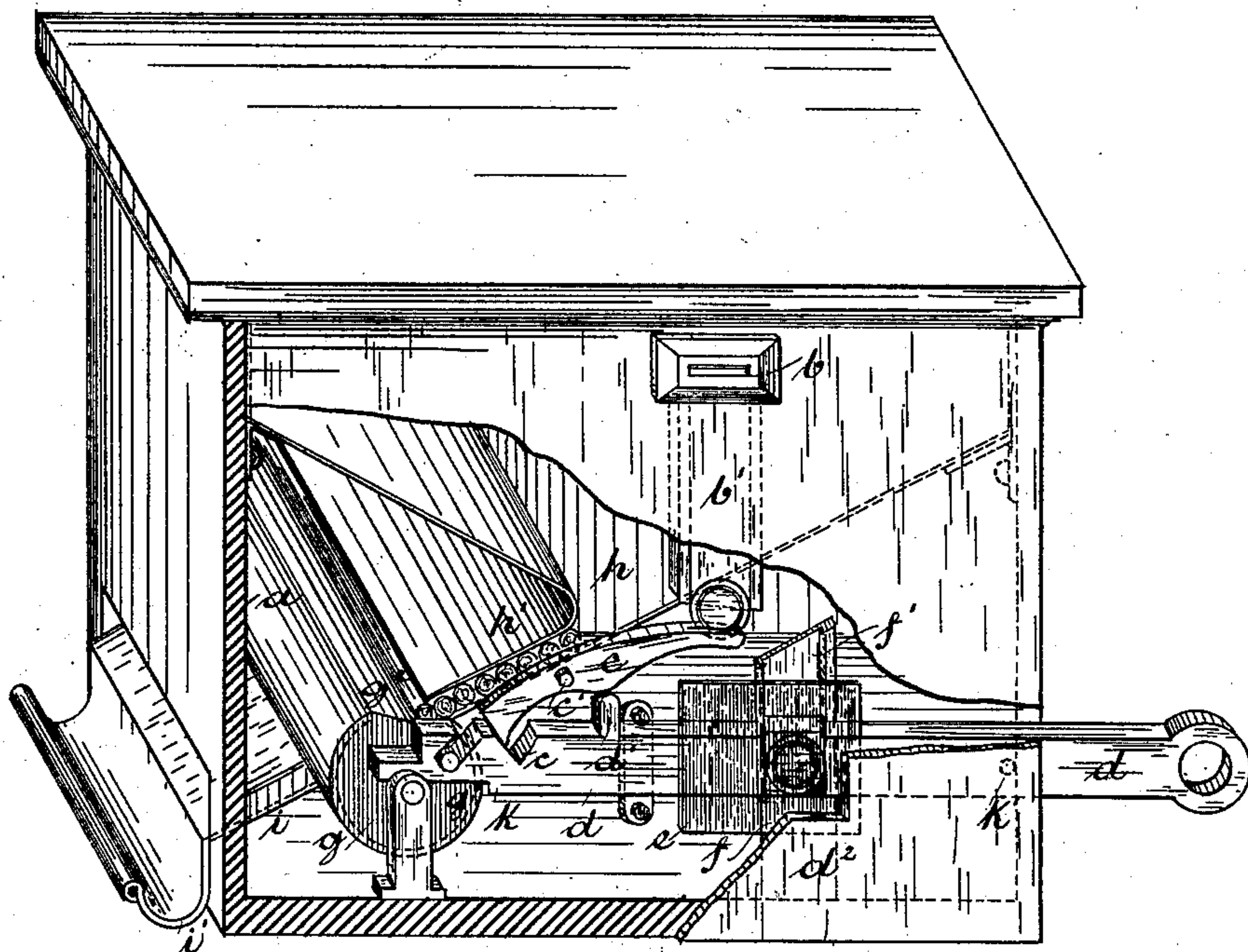
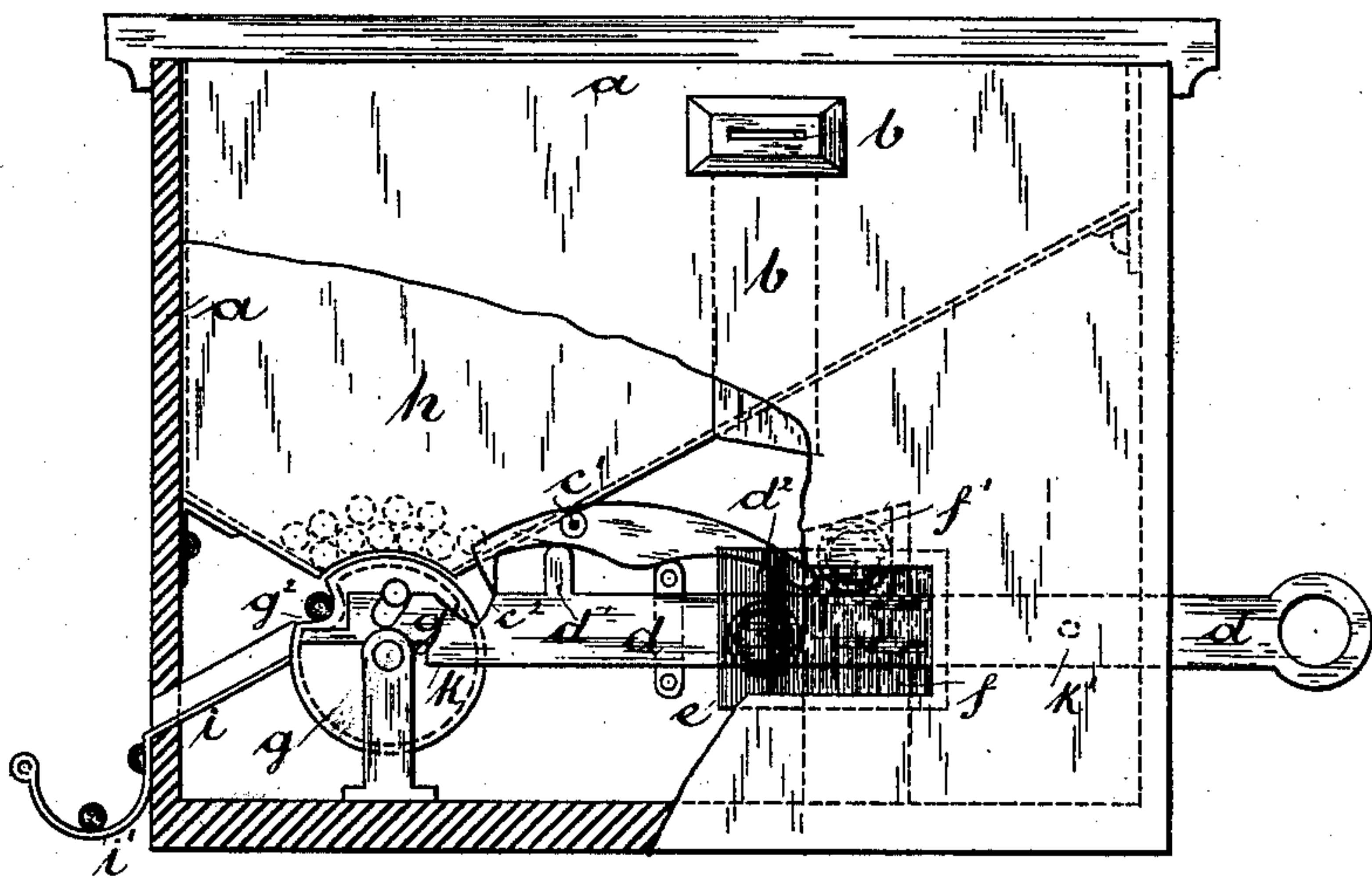


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

CHARLES HENRY BINGHAM, OF UTRECHT, HOLLAND.

## VENDING APPARATUS FOR CIGARS, CIGARETTES, &c.

SPECIFICATION forming part of Letters Patent No. 368,869, dated August 23, 1887.

Application filed April 9, 1887. Serial No. 234,265. (No model.) Patented in England February 28, 1887, No. 3,078.

*To all whom it may concern:*

Be it known that I, CHARLES HENRY BINGHAM, of the town of Utrecht, in the Kingdom of Holland, have invented certain new and useful Improvements in Automatic Apparatus for Effecting the Sale of Cigars, Cigarettes, and other Articles, (for which a patent has been granted in England on the 28th of February, 1887, No. 3,078,) of which the following is a specification.

My invention relates to automatic apparatus for effecting the sale of cigars, cigarettes, and other small articles; and it consists of a device, by means of which cigars, cigarettes, or other articles for sale are delivered when a coin of certain value, size, and weight is inserted in an opening or slot in the casing. The inserted coin effects the release of a pawl or catch gearing into a recess or cavity of a sliding lever or bar, which can be so operated from the outside of the apparatus that one of the cigars, cigarettes, or other objects is delivered. This slide operates a roller with suitable cavity for receiving a cigar, cigarette, or other object, which passes from the said cavity onto an inclined plane and from thence into a receptacle outside the said apparatus. The slide interrupts the fall of the coin until the said slide is again operated, the coin remaining visible behind a glass plate, so as to control the action of the apparatus.

In the accompanying drawings, Figure 1 is a perspective view, and Fig. 2 an elevation with the casing partly broken away and the slide in different positions.

*a* is the casing, which incloses the entire mechanism; *b*, the slot into which the coin is inserted, and *b'* the canal for guiding the said coin.

*c* is a two-armed pawl-lever, with its fulcrum at *c'*.

The coin descends onto the longer arm of the lever, while the forward arm, which is given the shape of a pawl or hook, gears into a corresponding recess or cavity, *c''*, in the slide or sliding rod *d*, when the longer lever-arm is freed from the coin, thus arresting all further movement of the slide until a fresh coin or coins is or are inserted, thus causing a depression of the longer arm of the pawl-lever and a freeing of the pawl from its gear

with the cavity *c''* in the slide *d*. A stud or projection, *d'*, on the upper surface of the slide *d* serves to operate the longer arm of the lever *c*, and thus force the pawl into gear with the recess *c''* of the slide *d*, which latter can be operated from the outside of the apparatus. The slide is arranged immediately behind a glass or other transparent plate, *e*, and is provided with a recess, *d''*, into which the coin from the guide, groove, or canal *b'* falls, and is retained by the block *f*. The slide effects the release of the object to be sold by operating on a pin or stud, *g'*, of the roller *g* and causing a partial rotation of the same.

The objects for sale are arranged in a receptacle, *h*, which, as represented in Fig. 1, can end in an inclined guideway, *h'*, so that the cigars or other objects lie one behind the other in the said guideway, or the inclined guideway can be omitted, so that the cigars, cigarettes, or other objects come in direct contact with the roller or drum *g*, the cavity or recess in which is so arranged that only one cigar or cigarette can enter the same at one and the same time, as represented by Fig. 2.

The form of the cavity or recess in the roller or drum can be varied according to the purpose required and the object to be sold. For instance, Fig. 1 shows an angular, and Fig. 2 an oval, cavity or recess.

The angular form facilitates the delivery of a cigar or cigarette into the guideway *i* and the receptacle *i'*, arranged outside the apparatus, so that the cigar, cigarette, or other object is readily accessible to the purchaser. The apparatus operates in the following manner: The coin inserted through the slot *b* depresses the longer arm of the lever *c* and releases the pawl from the cavity or recess *c''*, when the slide *d* can be operated. The roller or drum *g* is partially rotated and the object in the cavity or recess caused to fall into the incline or into the guideway *i*, and from thence into the dish or receptacle *i'*. The stud or projection *d'* to the slide *d* only permits a gradual descent of the long arm of the lever *c* by the friction existing between the top of the said stud or pin *d'* and the lower curved surface of the lever *c*, so that the said coin can only pass into the canal or guideway *f'* when the lever *c* reaches the position as represented by Fig.



2. The slide can, if desired, be returned by means of an appropriate spring, so that the coin falls into a recess,  $d^2$ , of the same and remains visible in the same until the apparatus  
 5 is again set in operation and a coin inserted, whereupon the first coin falls out of the cavity  $d^2$  into a coin-receptacle, and the second coin, after completed operation, remains in the position in the slide-recess  $d^2$  formerly occupied  
 10 by the first coin. The movement of the slide is limited by means of suitable stops,  $k$   $k'$ .

Although I have only described and shown one modification of my improved apparatus, it will be evident to all acquainted with the  
 15 art that the parts of my said apparatus and the arrangement of the same can be varied in many ways without departing from the nature of my invention.

Having now particularly described and as-  
 20 certained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim, and desire to secure by Letters Patent, is—

1. In an automatic apparatus for vending  
 25 cigars, cigarettes, and other articles, the combination, with a case or receptacle having a coin-receiving slot and chute and a merchan-

dise discharge opening, of a roller or drum having a recess therein to receive the article  
 30 to be discharged, a slide connected at one end to said roller or drum and adapted to reciprocate the same, and having a notched top face and an upwardly-projecting stud, and a lever having pivotal bearing within the case, and  
 35 having a pawl or hook at its front end to engage the notch in said slide, and an extended tail to receive the impact of the descending coin, substantially as and for the purpose set forth.

2. The combination of the slide  $d$ , having  
 40 notch  $c^2$  in its upper face, and a coin-receiving recess,  $d^2$ , the coin-holding block  $f$ , merchandise receiving and discharging drum  $g$ , connected with and adapted to be operated by  
 45 said slide, and a pivotal slide-locking lever,  $d$ , having at its front end a pawl to engage the notch  $c^2$  in said slide, and an extended tail to receive the impact of the descending coin, substantially as and for the purpose set forth.

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Witnesses:

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