(No Model.)

E. J. BRANDT.

COIN DELIVERY APPARATUS.

No. 556,131. Patented Mar. 10, 1896.

Fig. 1.

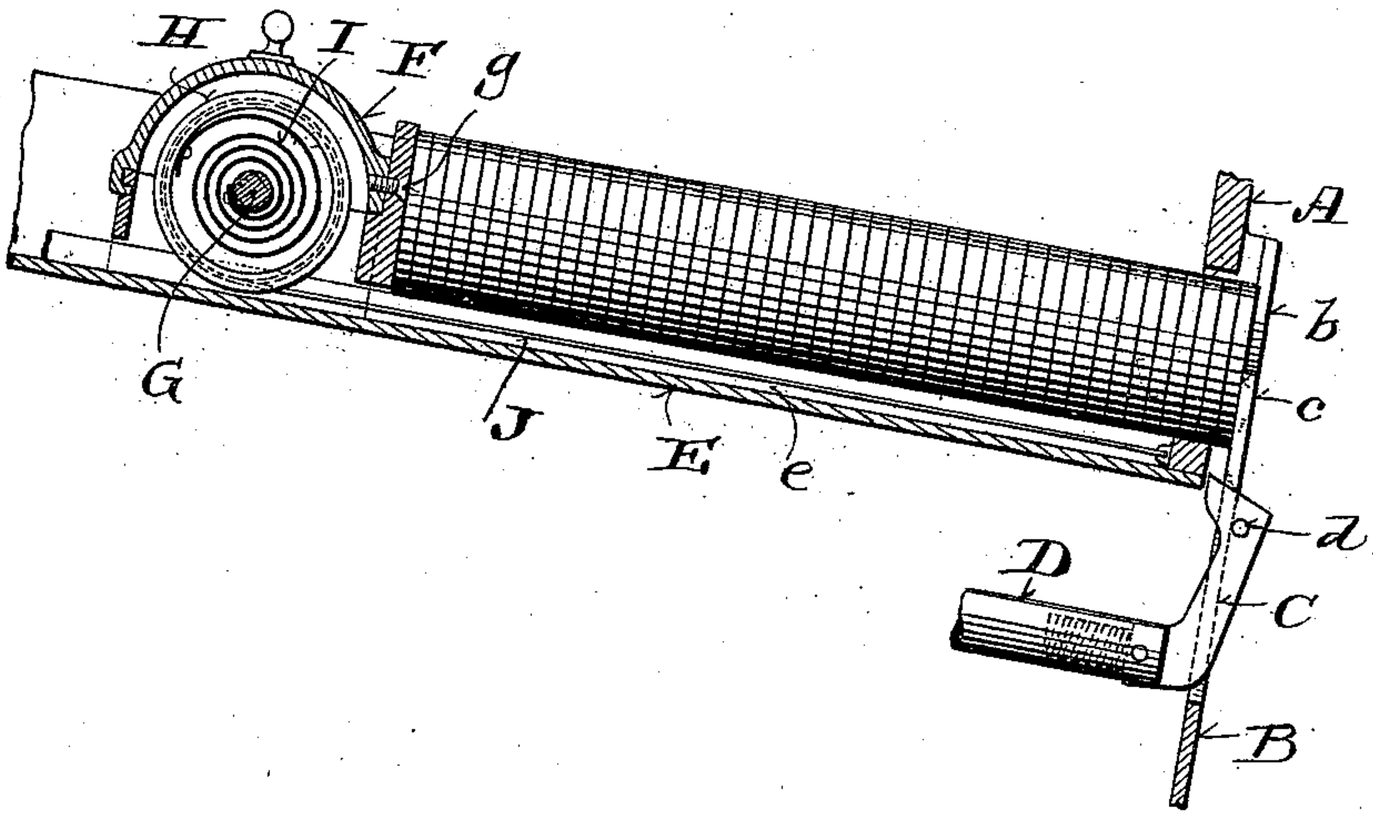
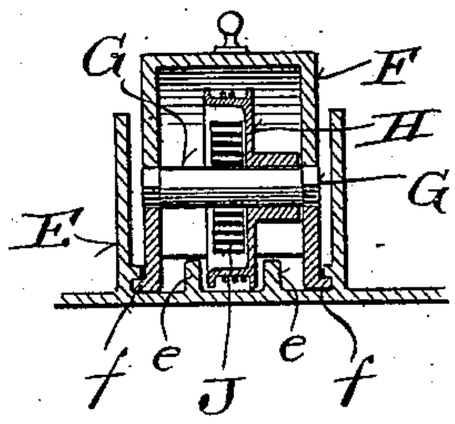


Fig. 2.



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UNITED STATES PATENT OFFICE.

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COIN-DELIVERY APPARATUS.

SPECIFICATION forming part of Letters Patent No. 556,131, dated March 10, 1896.

Application filed June 20, 1895. Serial No. 553,406. (No model.)

To all whom it may concern:

Be it known that I, EDWARD J. BRANDT, a citizen of the United States, and a resident of Watertown, in the county of Jefferson and State of Wisconsin, have invented certain new and useful Improvements in Coin-Delivery Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple, economical, and automatic power-exerting follower for use in conjunction with a suitable channel that constitutes part of a coin-delivery apparatus; and it consists in certain peculiarities of construction and combination of parts hereinafter set forth with reference to the accompanying drawings and subsequently claimed.

In the drawings, Figure 1 represents a vertical longitudinal section of a portion of a coin-delivery apparatus embodying my improvements, and Fig. 2 a transverse section of the same.

Referring by letter to the drawings, A represents a portion of the casing pertaining to a coin-delivery apparatus having a transversely-arranged notched plate B as part of the same. Intercepting the plate-notch *b* herein shown is a central vertical slot *c*, and said notch is of a width and contour corresponding to an arbitrarily-selected coin. The slot serves as a guide for a coin-pusher in the form of a finger C pivoted to the outer end of a rod D against a spring seated therein, this rod being actuated by any suitable mechanism to cause a lift of the finger, and the latter is provided with lateral ears *d* that bear against the front of the plate B above specified.

Extending rearward from the plate B, in register with the slot *b* therein, is one of a series of inclined channels E, designed as a receptacle for coin, the bottom of this channel being provided with longitudinal coin-supporting ribs *e* and its sides with guideways for flanges *f* that extend laterally from a coin-follower in the form of a hollow casing F having a detachable top section, herein shown held in place by means of a screw *g* run through the upwardly-projecting front of the bottom section.

The coin-follower is provided with a square-seated or otherwise stationary arbor G for a loose drum H, and a volute spring I is joined at its ends to the arbor and drum, the latter being joined to the inner end of a cord J or its equivalent that has its outer end fast to the aforesaid casing.

When the follower F is run back in the channel E, there is rotation of the drum H in the proper direction to cause a winding of the spring I, and subsequent expansion of this spring causes automatic travel of said follower toward the plate B against interposed coin, there being a reverse rotation of said drum to take up slack in the cord J herein set forth.

From the foregoing it will be understood that the pressure of the follower is automatically proportioned at all times to the number of coins in the corresponding channel, this being a result of variable tension on the part of the spring connecting the stationary arbor and rotative drum. By pressure of the follower the coins in the corresponding channel are forced up against the plate B to be dislodged one by one each time there is a lift of the finger C, the dislodged coin falling out through the notch *b* in said plate. However, when the coin has been exhausted from the channel the follower will come in the path of the pushing-finger to prevent lift of the same, and thus the operator will be notified that said channel needs replenishing.

While I have made one showing of my improvements, I desire it understood that the same may be somewhat varied in the matter of detail and assembly of parts and yet embody the fundamental feature of a coin-follower in connection with a cord or its equivalent and a spring-controlled rotative drum.

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

1. In a coin-delivery apparatus, the combination of a coin-channel, a notched stop-plate and a coin-ejecting mechanism, a coin-follower arranged to slide in the channel, a spring-controlled rotative drum, and a cord or its flexible equivalent that winds or unwinds according to direction of rotation on the part of the drum and operates in conjunction with the same to actuate the follower.

2. In a coin-delivery apparatus, the combi-

nation of a coin-channel, a notched stop-plate and coin-ejecting mechanism, a coin-follower consisting of a two-part casing arranged to slide in the channel, an arbor rigid in the casing, a drum loose on the arbor, a volute spring connected at its ends to the arbor and drum, and a cord or its equivalent connecting the drum with a stationary portion of the structure.

3. In a coin-delivery apparatus, the combination of a coin-follower, a spring-controlled rotative drum, and a cord or its flexible equivalent that winds or unwinds according to direction of rotation on the part of the drum and operates in conjunction with the same to actuate the follower.

4. In a coin-delivery apparatus the combination of a coin-follower in the form of a casing, an arbor rigid in the casing, a drum loose on the arbor, a volute spring connected at its ends to the arbor and drum, and a cord or its equivalent connecting the drum with a stationary portion of the structure.

In testimony that I claim the foregoing I have hereunto set my hand, at Watertown, in the county of Jefferson and State of Wisconsin, in the presence of two witnesses.

EDWARD J. BRANDT.

Witnesses:
ROBT. DENT,
JOHN SCHATZ.