No. 826,972.

PATENTED JULY 24, 1906.

F. J. TEFFT.

COIN CONTROLLED MECHANISM.

APPLICATION FILED JAN. 16, 1906.

2 SHEETS—SHEET 1.

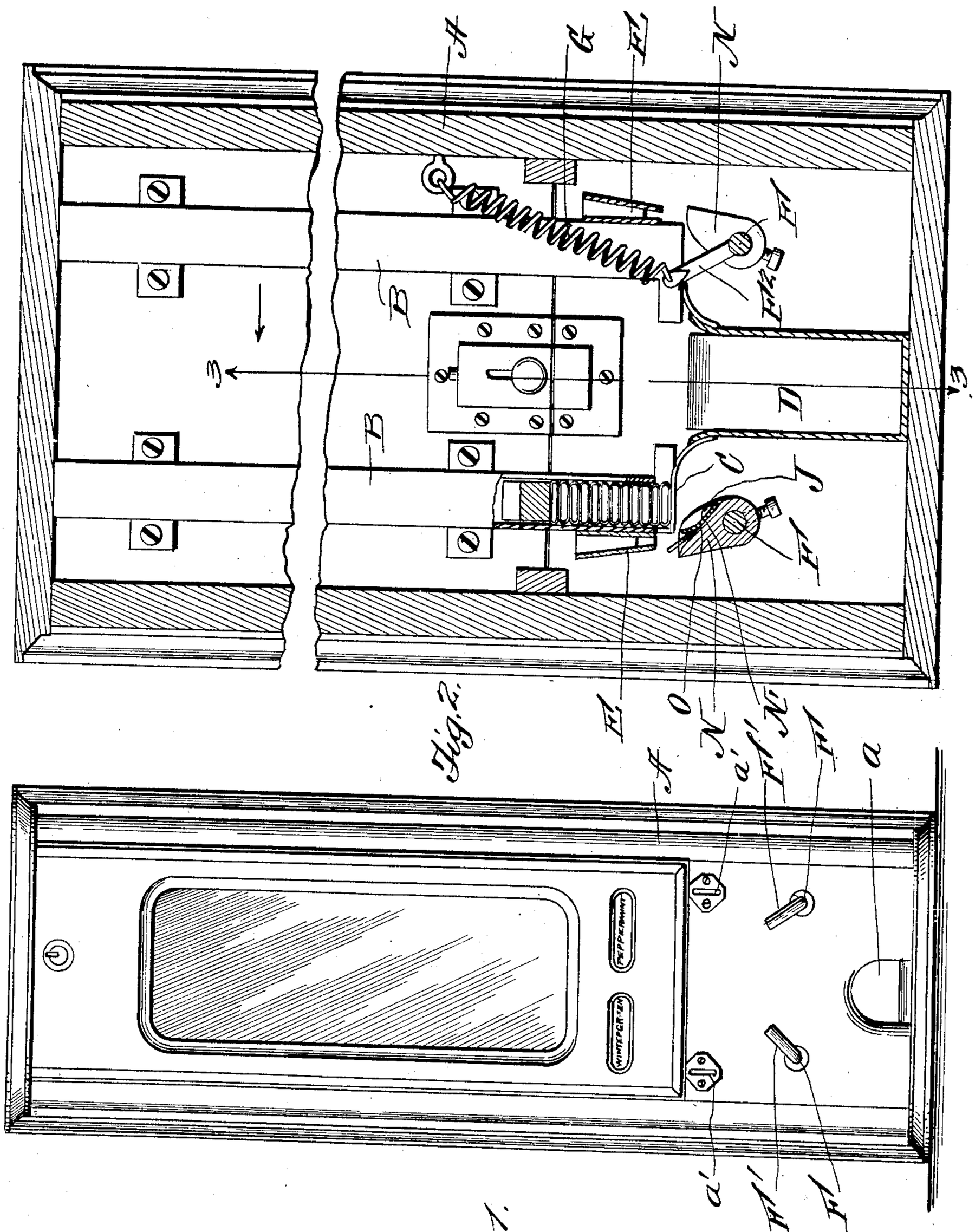

Fig. 2.

Fig. 1.

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2 SHEETS—SHEET 2.

Fig. 4.

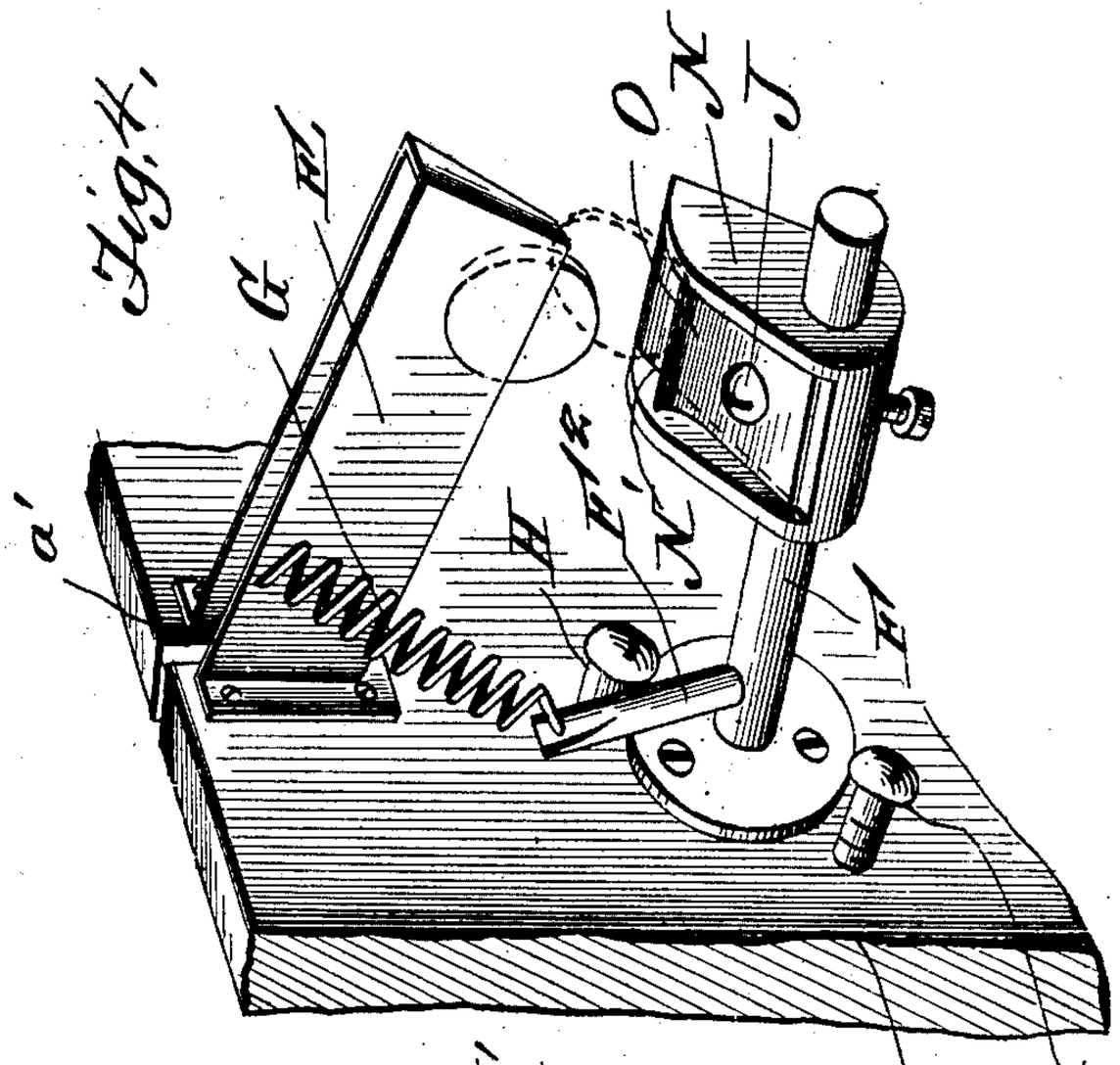
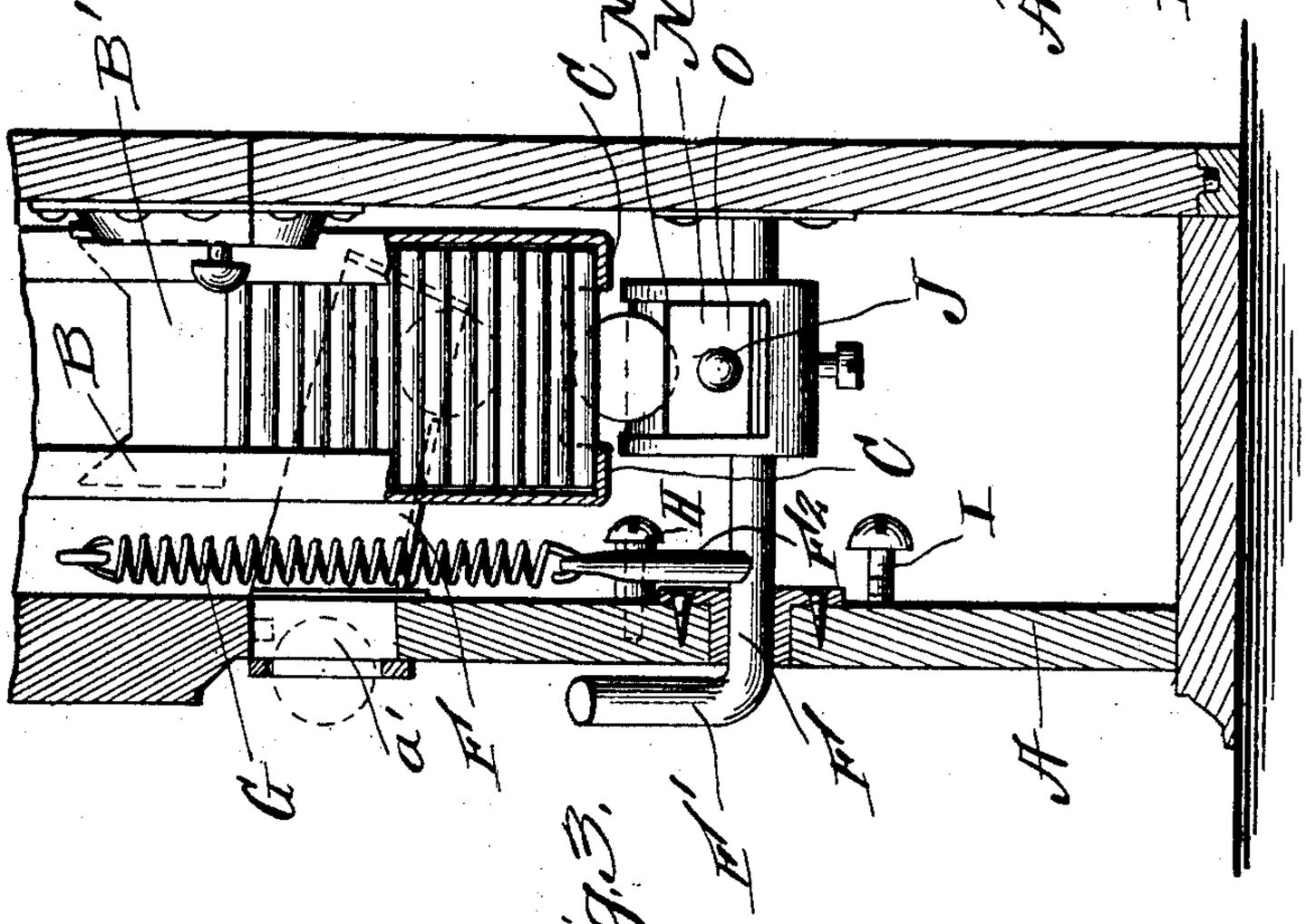


Fig. 3.



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UNITED STATES PATENT OFFICE.

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COIN-CONTROLLED MECHANISM.

No. 826,972. Specification of Letters Patent. Patented July 24, 1906.

Application filed January 16, 1906. Serial No. 296,319.

To all whom it may concern:

Be it known that I, FLOYD J. TEFFT, a citizen of the United States, residing at Geneva, in the county of Ontario and State of New York, have invented certain new and useful Improvements in Coin-Controlled Mechanism; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in coin-controlled mechanism, and comprises means whereby a coin fed into the apparatus is adapted to coöperate with mechanism for delivering an article, the coin afterward being automatically released and the various parts returning automatically to their normal positions in readiness for a repetition of the operation.

More specifically, the invention comprises the provision in a coin-controlled apparatus of a rock-shaft having a suitable pocket or receptacle mounted thereon which is adapted to receive a coin on edge which when held by said receptacle is so positioned that when the shaft is rocked with the coin in said receptacle an article in the path of said coin may be delivered.

The invention consists, further, in various details of costruction and combinations and arrangements of parts, which will be hereinafter fully described and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which—

Figure 1 is a front elevation of a portion of the casing, showing the coin-slots and the angled ends of the rock-shafts. Fig. 2 is a vertical sectional view through the apparatus. Fig. 3 is an enlarged sectional view showing the manner in which the articles are delivered by a coin coöperating with the rock-shaft and receptacle mounted thereon; and Fig. 4 is a detail view in elevation, showing the manner in which the coin is directed to the receptacle upon the rock-shaft.

Reference now being had to the details of the drawings by letter, A designates a casing for my apparatus, in which are positioned two vertically-disposed chutes B, which may be of any suitable construction and preferably open upon one side and in which the articles to be automatically delivered are placed one upon another and which may be held in position to be delivered by means of a weight B′, resting upon the pile of articles to be delivered. The lower end of each of said chutes is open and each is provided with oppositely-disposed flanges C, upon which the pile of articles to be delivered rests. Said flanges project beyond the face of the chute and are preferably downwardly inclined and form guides upon which the articles may fall by gravity into the hopper or delivery-receptacle D, access to which may be had through an opening *a* in the front face of the casing.

a′ designates coin-slots (shown in Fig. 1 of the drawings) and in which coins are inserted to actuate the mechanism, and underneath each of said slots is an inclined trough or chute E, which is V-shaped in cross-section and has its lower end closed and provided with a slot in the bottom thereof, through which the coin is allowed to fall into the apparatus, which may be actuated for the purpose of delivering the article. Mounted in suitable bearings underneath each of said chutes is a rock-shaft F, the outer end of each rock-shaft having an angled end F′. Fixed to each rock-shaft is a post F^2, and a spring G has one end fixed to each post and its other end fastened to any convenient fixed object, in the drawings each spring being shown as fastened at its upper end to a screw-eye which is fastened to the wall of the casing. The object of said spring is to normally hold the rock-shaft in the position shown in solid lines in the sectional view of the drawings.

H H designate stops projecting from the inner surface of the front wall of the casing and against which said posts are adapted to contact to limit the rocking movements of the shafts in one direction, and I I designate stops also fastened to the inner surface of the front wall of the casing and adapted to limit the rocking movements of the shafts in the opposite direction. Fixed to each of said rock-shafts is a coin-receiving receptacle N, which are held by set-screws to the shafts, and each of said receptacles has one face recessed, as at N′, and the bottom of each recess is preferably inclined. O O are plates the upper ends of which are outwardly curved, and each of said plates has a central aperture adapted to receive a screw J, and one of said plates is fastened to the bottom of each recess, thereby forming a pocket the opposite walls of which outwardly flare and are adapt-

ed to receive a coin as it falls through the aperture in the bottom of the coin-chute.

The operation of my apparatus is simple and is as follows: A pile of articles to be delivered first being inserted in the chutes B and resting upon the flanges at the bottoms thereof, when it is desired to deliver the articles singly, it being understood that but one article can be delivered at a time for the reason that the cross-pieces B^2, which connect the lower ends of the longitudinal flanges upon the chutes B, will prevent but one article at a time being delivered, the space intervening between said cross-piece and the curved flanges at the bottom of the chute being preferably the width of the article to be delivered or slightly wider, a coin is inserted in one or another of the slots and rolling down upon edge in the coin-chute and falling through the slot in the bottom of said coin-chute drops into the receptacle with its upper edge projecting slightly above the top of said receptacle a sufficient distance to contact with the edge of an article to be delivered as the shaft is rocked with the receptacle and coin held thereby. As the operator turns down the crank or handle end of the shaft in the position shown in dotted lines in Fig. 1 the bottommost article of the pile will be pushed out from under the rest by the coin and will slide down the flanges and fall into the receptacle provided to receive the same. As the operator releases the handle the spring secured thereto will force the shaft to rock back quickly to its normal position, and as the post comes in contact with the stop and comes to a standstill quickly the momentum of the shaft coming to its normal position will cause the coin to be thrown out of the receptacle and fall into the lower part of the casing and be deposited in the bottom of the casing, from which the coins may be removed at any time through an opening in the casing.

From the foregoing it will be noted that by the provision of the apparatus shown and described a simple and efficient means is afforded whereby the articles may be accurately delivered and reducing to a minimum the operating parts of the apparatus for accomplishing this purpose.

What I claim is—

1. A coin-controlled apparatus comprising a casing with a coin-chute therein, a rock-shaft mounted in suitable bearings within said casing, a post projecting from said shaft, a spring connecting said post with said coin-chute, stops against which said post is adapted to strike to limit the movement of said shaft in opposite directions, a coin-holding receptacle adjustably held upon said rock-shaft and provided with a recess in one face thereof, a plate seated in said recess and having one end curved away from the bottom of said recess, forming a slot intermediate the plate and receptacle to receive a coin, the outer end of said shaft being bent at an angle, forming a handle, as set forth.

2. A coin-controlled apparatus comprising a casing with a slot in the side thereof, a coin-chute made of a piece of metal which is bent upon itself rectangular-shaped forming between the longitudinal edges thereof a slot which has an opening therein, the ends of said chute being flanged and fastened to the wall of the casing, a flanged boss mounted in an aperture in the wall of the casing, a rock-shaft having a bearing in said boss, a post projecting from said shaft, a spring connecting the post with said chute, stops positioned in the path of said post and adapted to limit the movements of the latter in opposite directions, a coin-holding receptacle having an aperture through which said shaft passes, a set-screw for holding the receptacle upon the shaft, one face of said receptacle being recessed, a plate seated in said recess, a screw for holding said plate to the coin-receptacle, one end of said plate being outwardly curved forming a slot intermediate the same and the receptacle, as set forth.

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

FLOYD J. TEFFT.

Witnesses:

JAMES J. COLLIER,

G. V. SACKETT.