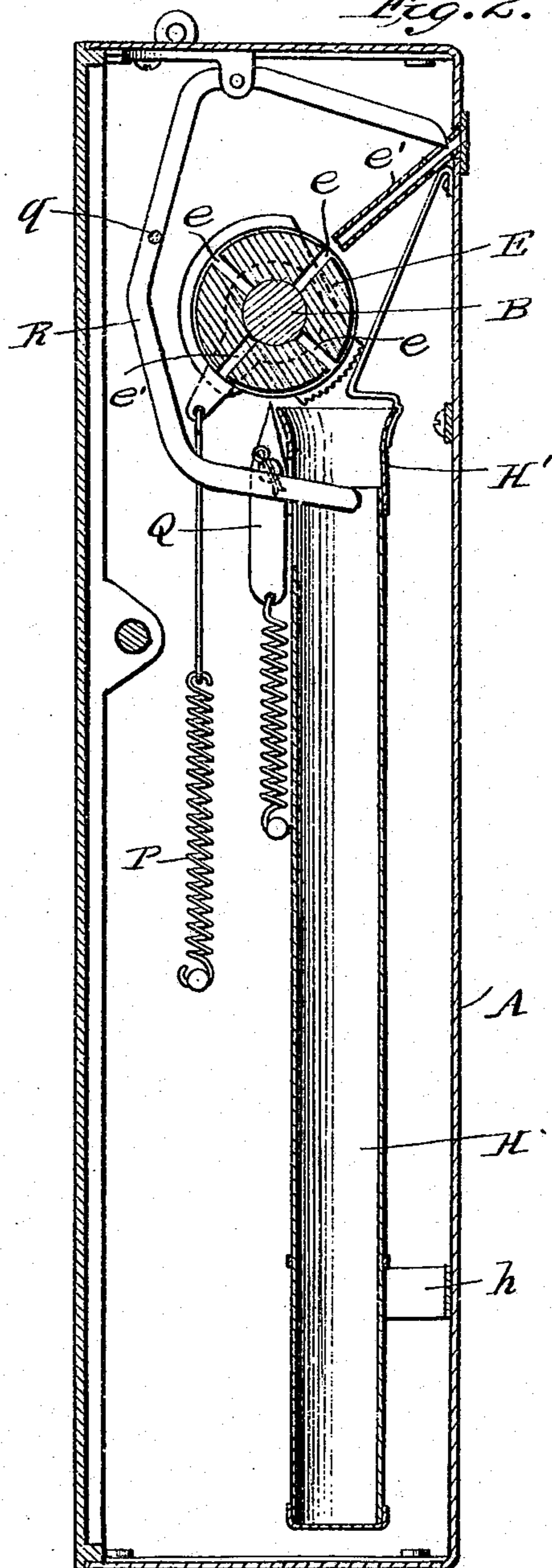


930,667.

~~2 SHEETS~~ SHEET 1.



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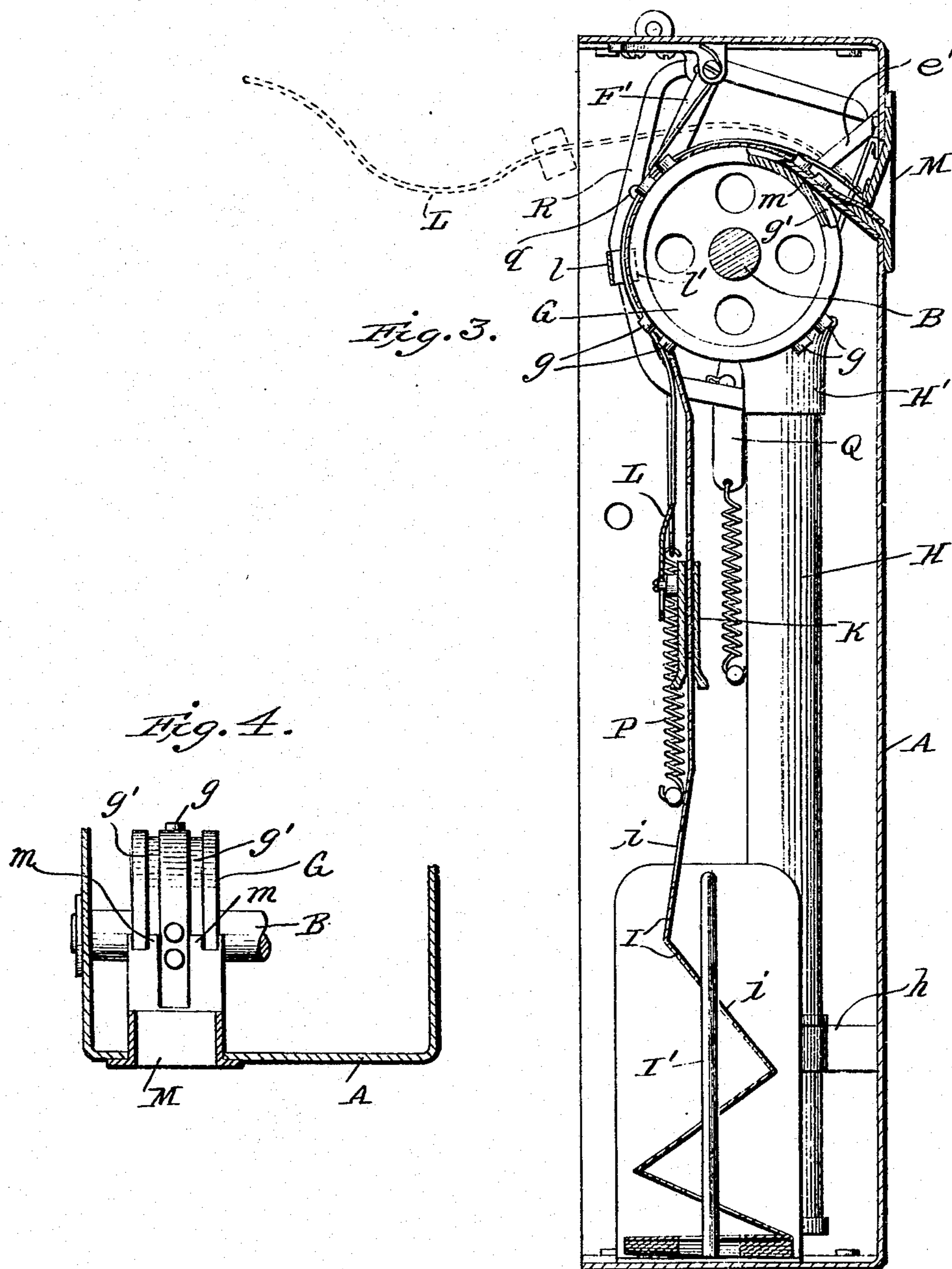
COIN DEPOSIT APPARATUS.

APPLICATION FILED JUNE 26, 1908.

930,667.

Patented Aug. 10, 1909.

2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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COIN-DEPOSIT APPARATUS.

No. 930,667.

Specification of Letters Patent.

Patented Aug. 10, 1909.

Application filed June 26, 1908. Serial No. 440,554.

To all whom it may concern:

Be it known that I, CHARLES F. HESS, a citizen of the United States, residing at Scranton, Lackawanna county, Pennsylvania, have invented certain new and useful Improvements in Coin-Deposit Apparatus; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the characters of reference marked thereon.

This invention relates to coin actuated token or coupon delivering apparatus such as is particularly designed for use as an auxiliary to savings bank institutions, the tokens or coupons being accepted by the bank as evidence that the holder is entitled to credit for an amount equal to the value of the coin deposited in the delivering apparatus.

The invention consists in certain novel details of construction and combinations and arrangements of parts all as will be now described and pointed out particularly in the appended claims.

In the accompanying drawings: Figure 1 is a rear elevation of a coin actuated coupon delivering apparatus embodying the present invention, the rear wall of the casing being removed. Fig. 2 is a sectional elevation in the plane of the line 2—2, Fig. 1. Fig. 3 is a similar view showing the coupon feeding and guiding mechanism, the adjustable guide being shown in dotted lines in position for the insertion of the leading end of a strip of coupons. Fig. 4 is a detail section showing the coupon delivering chute and a portion of the feed wheel.

Similar characters of reference indicate the same parts in the several views.

The casing A in which the working parts of the apparatus are housed is preferably rectangular with one wall (usually the rear wall) detachable to give access to the interior. A transverse shaft B journaled in the casing near the upper end and provided with an external handle C working between limiting stops, is adapted to carry the feeding and coin actuated parts. As shown, these parts embody a disk D secured rigidly to the shaft, and a coin wheel E, stop wheel F, and coupon feed wheel G journaled on the shaft or on an axis coincident with the axis of the shaft. Coin wheel E is provided with a plurality of radial coin slots *e*, adapted when in position

beneath the coin entrance chute *e'* to receive a coin of proper size. The coin projects beyond the side of the wheel in position to be engaged by a shoulder on the disk D and when the disk and shaft are advanced lock the shaft and coin wheel together for partial forward rotation in the now well understood manner. The number of coin slots in the wheel and the range of movement of the shaft are such that a new slot will be brought into position below the entrance chute by each movement and as the reverse movement of the shaft takes place, the coin in the wheel will drop into a vertically arranged, removable tubular receiver H. For guiding the coins into the receiver a fixed funnel *H'* may be mounted in the casing and adapted to accommodate the upper end of the receiver, the lower end of the receiver being held in a clip *h*.

The coupons I adapted to be fed by the apparatus, are in the form of a strip with weakened severing lines between them and central apertures *i*. The strip is folded back and forth into a compact body adapted to be mounted on a holder *I'* in the casing and to be led upwardly through a fixed guide K and beneath an adjustable flexible guide L to the feed wheel. The feed wheel is formed with projections *g* properly spaced to enter the central apertures in the coupons, the size of the wheel, of course, being such that each movement of the coin wheel will advance the feed wheel a distance corresponding to the length of a coupon and the distance between projections. To facilitate the threading or positioning of the leading end of the strip the guide L may be sprung out to the position indicated in dotted lines, but normally the said guide hugs the feed wheel closely and has its lower end detachably secured to the fixed guide K. The guide L is centrally slotted for the passage of the projections on the wheel and is provided with a central bridge *l* and wings *l'* adapted to embrace the sides of the wheel and coupon strip. At the front end the said guide is secured to or merges in the top of the coupon discharge chute M.

To insure the movement of the coupons away from the feed wheel and through the discharge chute the feed wheel is provided with peripheral grooves *g'* into which fingers *m* on the under wall of the chute extend so as to invariably pick up the leading end of the coupon and guide the same out of the appa-

ratus. The stop wheel F is provided with a plurality of peripheral notches *f* corresponding in number to the coin slots and projections on the feed wheel and a spring pressed 5
retainer F' cooperating with the notches prevents overthrow of the feed wheel and interposes a considerable resistance to the inauguration of its movement. When a coupon 10
has been projected through the discharge chute it may be readily detached while the rotation of the feed wheel by a direct pull on the coupon is prevented by the retainer. Reverse or return movement of the operating shaft is caused by a spring P and a full 15
movement in each direction is insured by a ratchet segment and reverse pawl Q of well known construction.

To prevent the operation of the apparatus when the receiver is full of coins a locking 20
mechanism is provided which consists of a centrally pivoted lever R, one end of which projects through the wall of the coin receiver, near the top and the other end of which projects through the wall of the coin 25
entrance chute. An arm *q* on the lever projects over the stop pawl or retainer F', whereby the coin chute will be closed when the retainer moves out of a notch, and if the receiver is full of coins the lower end of the lever 30
will engage the top coins and prevent movement to open the coin chute until the receiver has been emptied.

It will be noted that the feed wheel is located close to the discharge opening of the 35
coupon discharge chute, and consequently the coupon just within the casing or chute still occupies its position around the projection on the feed wheel, and hence it is impossible to detach more than one coupon for 40
each coin deposited or for each movement of the feed wheel. It will also be noted that there is no possibility of the coupon strip becoming caught or tangled and the bank representative who empties the receiver, on not- 45
ing that the coupon strip is nearly exhausted may lift the remaining portion of the folded strip, place a new package beneath the same and by attaching the ends together the new strip will follow the previous strip without 50
intermission or further attention by the bank representative.

Having thus described the invention, what is claimed as new and desired to be secured by Letters-Patent, is:

55 1. In a coupon delivering apparatus, the combination of the following instrumentalities, to-wit; a holder for a coupon strip, a coupon exit guide-way beyond which the free end of the strip may be projected in po- 60
sition to be grasped before the coupon is separated from the strip, a coupon feed wheel having coupon engaging projections for pre-

venting the independent feed movement of the strip, and means for advancing the feed wheel intermittently, said feed wheel being 65
so located and the relative arrangement of the parts being such that each feed movement of the feed wheel will project a coupon through the exit guide-way while the next succeeding coupon remains in engagement 70
with its projection on the feed wheel and held positively against being withdrawn when tension is applied to the projected coupon.

2. In a coupon delivering apparatus, the 75
combination of the following instrumentalities, to-wit; a coupon feed wheel having coupon engaging projections thereon, means for advancing the feed wheel intermittently a distance equal to the distance between 80
projections, a coupon exit guide-way beyond which the free end of the strip may be projected in position to be grasped before the coupon is detached from the strip, and a coupon strip having weakened tearing lines 85
between coupons and each coupon having therein an aperture for a projection on the feed wheel, the relation of the feed wheel to the coupon exit opening being such that each feed movement of the feed wheel will 90
project a coupon through the exit opening while the next succeeding coupon remains in engagement with its projection on the feed wheel and held positively against being withdrawn or torn off when tension is applied to 95
remove the projected coupon.

3. A coupon delivering apparatus embodying a coupon feed wheel having coupon engaging projections thereon, means for advancing the feed wheel intermittently, a 100
flexible coupon guide having a free end adapted to be wrapped around and embracing a portion of the periphery of the feed wheel and having a slot for the passage of the projections and a coupon delivering chute 105
into which the fixed end of the guide merges, whereby the flexible guide may be turned away from the feed wheel to facilitate the insertion of the leading end of a coupon strip.

4. A coupon delivering apparatus em- 110
bodying a coupon feed wheel having coupon engaging projections thereon, means for advancing the wheel intermittently, a flexible coupon guide having a free end embracing a portion of the periphery of the wheel, a dis- 115
charge chute into which the fixed end of the guide merges, a fixed coupon guide, and a detachable connection between the free end of the flexible guide and the fixed guide.

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