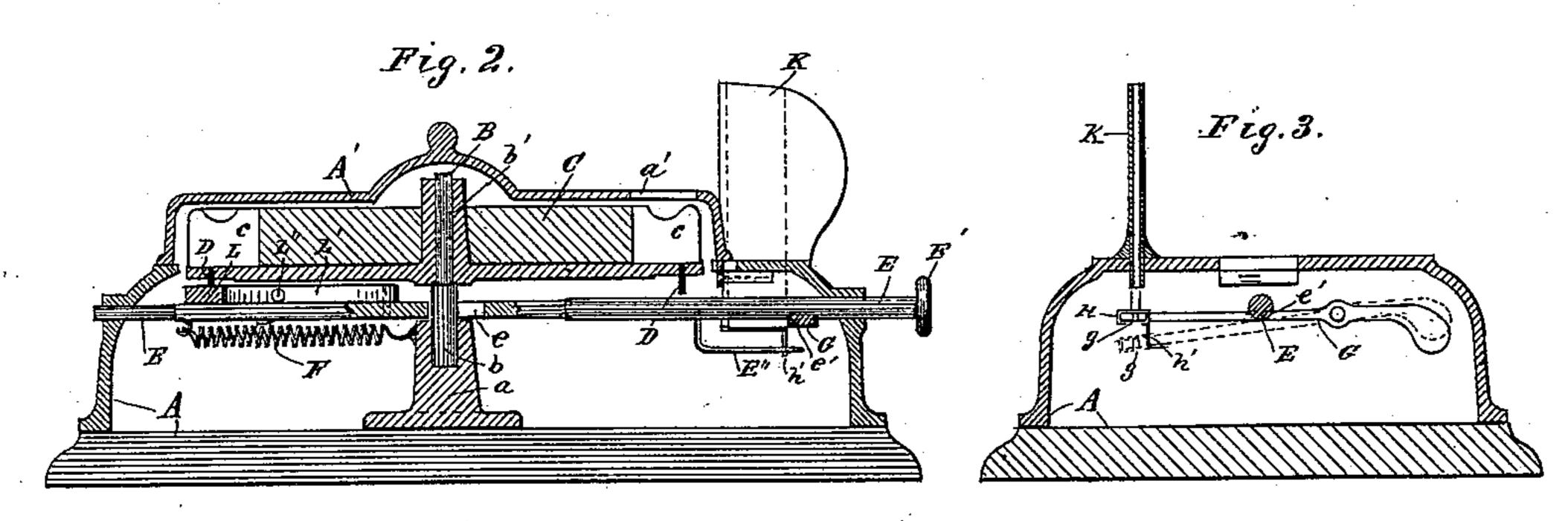
(No Model.)

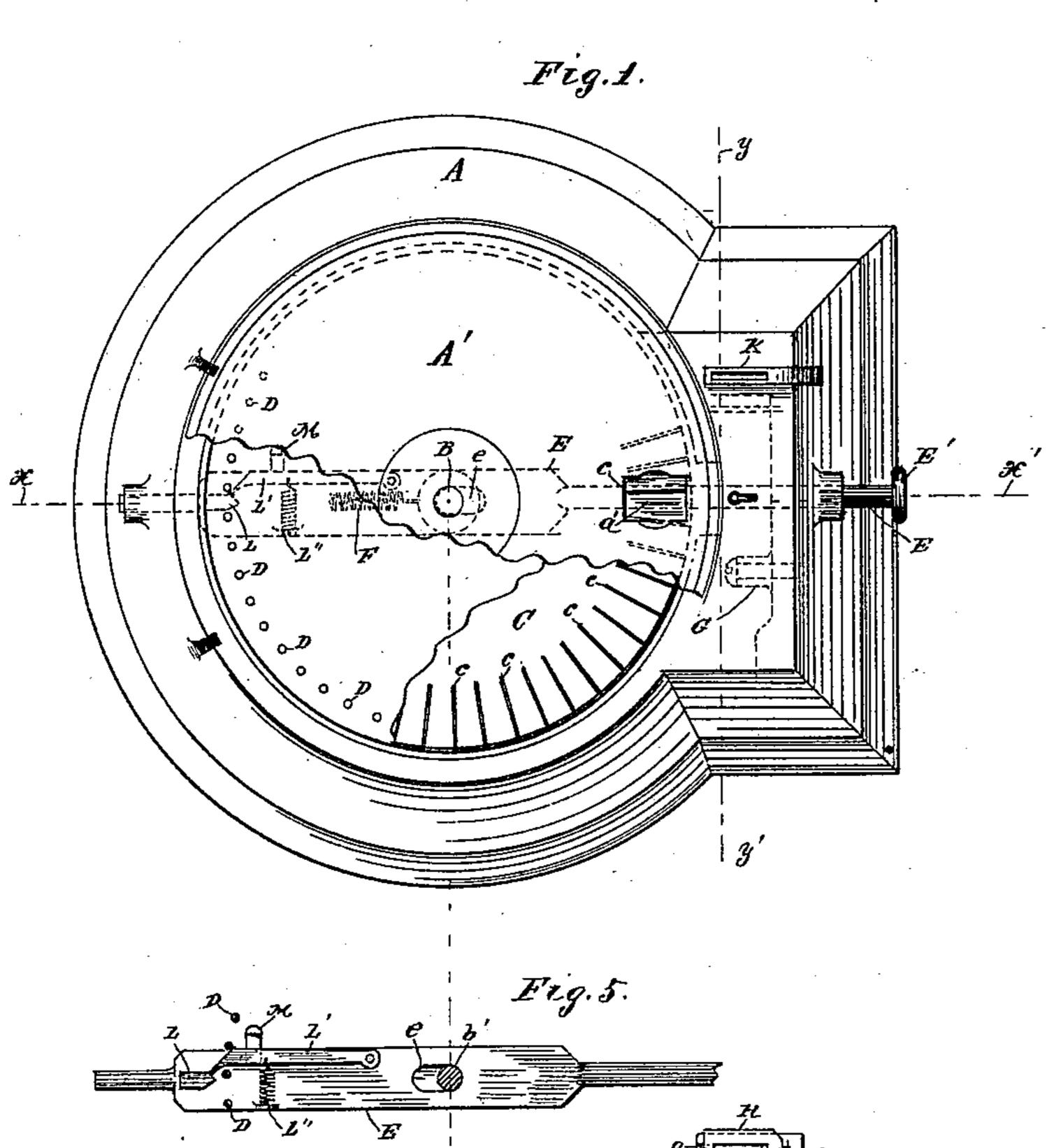
## D. OLMSTED.

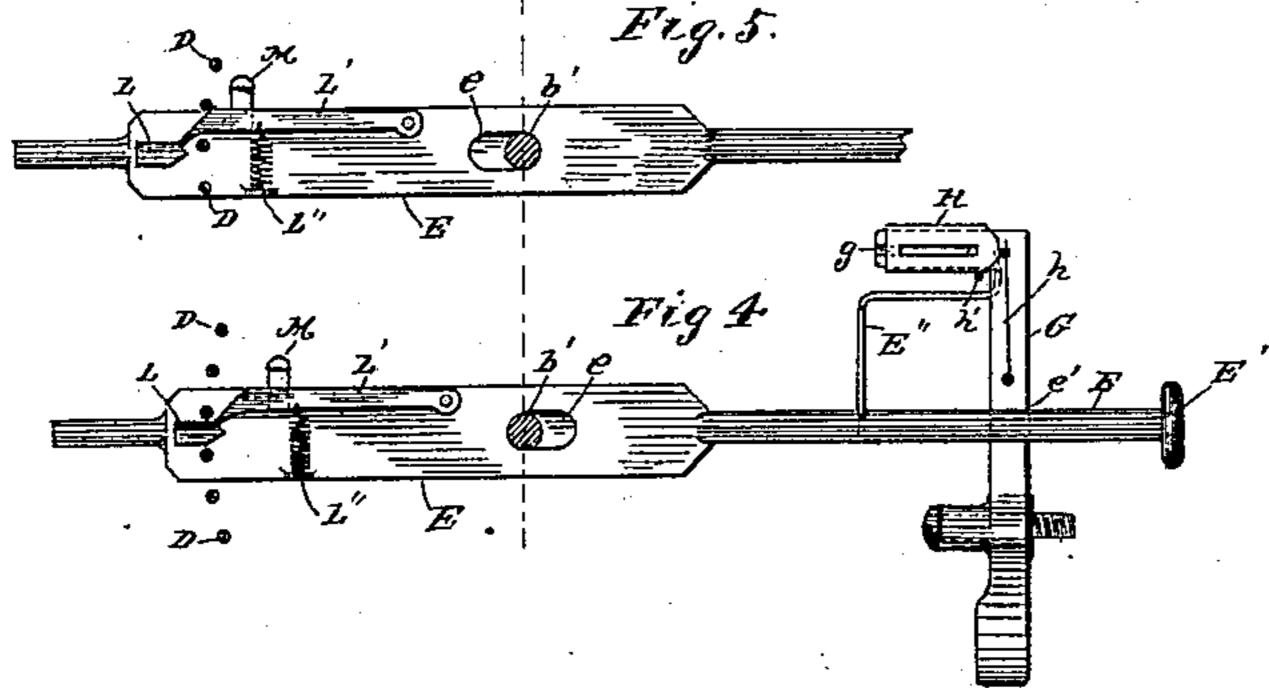
COIN CONTROLLED POSTAGE STAMP MACHINE.

No. 427,005.

Patented Apr. 29, 1890.







Witnesses a. 26. Opsahs. Emma F. Elmore David Olusted
Day his Attorney Williams

## United States Patent Office.

DAVID OLMSTED, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR OF ONE-HALF TO WILLIAM H. SEMON, OF SAME PLACE.

## COIN-CONTROLLED POSTAGE-STAMP MACHINE.

SPECIFICATION forming part of Letters Patent No. 427,005, dated April 29, 1890.

Application filed April 15, 1889. Serial No. 307,229. (No model.)

To all whom it may concern:

Be it known that I, DAVID OLMSTED, a citizen of the United States, and a resident of the city of Minneapolis, county of Hennepin, State of Minnesota, have invented a certain new and useful Coin-Controlled Postage-Stamp Machine, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to coin-controlled postage-stamp machines; and it has for its object to provide a construction which will render it impossible to move the stamp-magazine except upon the application of the proper coin.

The machine embodying my invention comprises a suitable inclosing-case provided with a coin-conduit and an opening for the withdrawal of the stamps, a revoluble stamp-magazine mounted on a supporting-spindle within 20 the case, a device for actuating the magazine, and a coin-controlled latch for locking the actuating device. The case may be of any suitable kind. The stamp-magazine is preferably a wheel with radial slits on its periph-25 ery or one face, each adapted to hold one or more stamps. On dropping the proper coin in the conduit the actuating device is unlocked, and by moving the actuating device the wheel is turned forward a single step, 30 bringing one or more of the slits in front of the opening in the face of the case, and the stamp or stamps in that particular slit may be withdrawn. The actuating device is under tension, and at the end of each forward move-35 ment of the wheel returns to its normal position, wherein it is automatically locked by the latch.

Such machines are especially designed for druggists' and stationers' use to avoid the nuisance of handling and making change for small purchasers of postage-stamps. It is essential to the success of the machine that the construction should be such as to preclude any possibility of tampering with the stampaworth of stamps. Hitherto great difficulty has been experienced on this point without introducing complex mechanism. In some one or more positions of the actuating device after release by the coin and before relocking by the latch it has usually been possible resting the case and proving tral slot limit the bar. F is a estal a bar E, to position side with the case and proving transfer.

to turn the stamp-wheel by hand in one direction or the other.

The leading feature of my invention is an especial form of actuating device which in all 55 its positions locks the stamp-wheel against movement in either direction except by the device itself, and then only a single step for a single coin.

In the drawings, like letters referring to 60 like parts throughout, Figure 1 is a plan of the entire machine, some of the parts being broken away. Fig. 2 is a section on the line X X' of Fig. 1. Fig. 3 is a section of the same on the line y y', and Figs. 4 and 5 are plan 65 views of the wheel actuating and locking mechanism detached.

A A' is the hollow supporting-case. As shown, A is the permanent body or bed of the case, and A' is a removable face-plate, which, 70 when in position, is locked to the bed-section A. This face-plate A' is provided with an opening a' for extraction of the stamps.

B is a wheel-supporting spindle secured to the bed-section A in any suitable way, as by 75 the pedestal a, and having enlarged and reduced portions b b', respectively.

C is the stamp-magazine, constructed in the form of a wheel, with radial slits c in its periphery for holding the stamps. On its back 80 this wheel is provided with a series of projecting pins D. The wheel is mounted on the reduced portion b' of the spindle B and freely turns thereon.

E is a reciprocating bar arranged trans- 35 versely to the pins D. As shown, it is provided with a central slot e, through which projects the spindle B, and has its extremities resting in bearings on the opposite sides of the case, one of which is extended outward 90 and provided with a push-head E'. The central slot e is of the proper length to allow and limit the necessary transverse movement of the bar.

F is a retraction-spring attached to the ped- 95 estal a at one end and at the other to the bar E, tending to hold the bar in its normal position. The bar E is provided on its under side with a notch or seat e'.

G is a pivoted gravity-latch adapted in its normal position to engage with the notch e' on the bar E and prevent movement of the

same. The latch G is provided at one end with a slotted arm g. Over the arm g fits a slotted slide H, which is held in its normal position by a spring h, secured to the latch G. 5 In the normal position of the slide the two slots do not register throughout their entire length, a part of the slot in the slide being over the body of the arm g. The slide H is provided with a stud h', and the bar E is proto vided with a projecting arm E", adapted to engage with the stud h' and actuate the slide H in the forward movement of the bar.

K is the coin conduit or chute, of any desired construction, in a position to direct the

15 coin to the slot in the slide H.

L is a fixed cam, and L' a pivoted cam on the face of the bar E in position to engage

with the pins D.

L" is a retraction-spring secured at one end 20 to the bar E and at the other to the pivoted cam L', tending to hold the same in its normal position in contact with the fixed cam L.

M is a stop for limiting the outward movement of the pivoted cam. The outer end of 25 the fixed cam L has two inclined converging surfaces and the outer end of the pivoted cam L' is pawl-shaped. In the normal position of the bar E the fixed cam L lies between two of the adjacent pins D and the stamp-30 wheel cannot be moved in either direction. The slot in the slide H is of a size to pass only the particular coin—as, for example, a nickel required for the number of stamps held in the slits exposed under the stamp-opening a'.

The operation is as follows: On dropping the coin into the conduit K it passes to the slot in the slide H, and is there held until the bar E is moved forward. By its weight the coin moves the latch G out of engagement 40 with the notch e' of the bar E. On then pushing inward on the head E' the pivoted cam L is thrown into contact with one of the pins D, moving the wheel forward a half-step and bringing the next adjacent pin between the inner end of the pivoted cam and the ad-

jacent inclined surface of the fixed cam. On then letting go of the head E' the spring F retracts the bar E to its normal position and the fixed cam L comes in contact with the 50 pin, forcing the wheel forward another halfstep and passing the pin between the two

cams. It will be seen that the wheel cannot be turned except by the movement of the bar E. When in its normal position, the fixed

55 cam lies between the two adjacent pins, and when in any other position the pivoted cam I

lies between two adjacent pins and is limited by the stop M. As shown and described, the pins are treated as a part of the stamp-wheel, being set, as shown, in a metallic plate se- 60 cured to the back of the wheel. This metallic plate and the projecting pins really constitute a pin wheel. It will be readily understood that the pin-wheel might be entirely separate from the stamp-wheel and a train of gear be 65 interposed between the two.

What I claim, and desire to secure by Letters Patent of the United States, is as follows:

1. In a machine for vending postage-stamps, the combination, with a pin-wheel provided 70 with means for holding the stamps, of a transversely-movable bar provided with a fixed and a movable cam and a coin-controlled device for locking said bar, substantially as set forth.

2. The combination, with the stamp-holding wheel provided with the projecting pins, of the transversely-movable bar provided with the fixed and the pivoted cams, one of which is always between two adjacent pins of said 80 wheel, a stop for limiting the movement of the pivoted cam, and a coin-controlled device for locking said bar, substantially as described, whereby in all positions of said bar said wheel will be locked from movement 85 otherwise than by a full stroke of said bar.

3. The combination, with a stamp-holding wheel provided with the projecting pins, of the transversely-movable bar provided with the fixed and the pivoted cams, one of which go is always between two adjacent pins of said wheels, a stop for limiting the outward movement of the pivoted cam, and a spring for returning the same to its normal position, and a coin-controlled device for locking said bar, 95 substantially as described.

4. The combination, with the stamp-holding wheel having a series of pins, as described, of a transversely-movable bar provided with a fixed cam near one end, a pivoted cam the rco point of which is adjacent to said fixed cam, and a spring attached to said pivoted cam and bar, substantially as set forth.

5. The combination, with the stamp-holding wheel having a series of pins, of the 105 movable bar E, provided with a fixed cam L, pivoted cam L', stop M, and spring L'', substantially as set forth.

DAVID OLMSTED.

In presence of— JAS. F. WILLIAMSON, EMMA F. ELMORE.