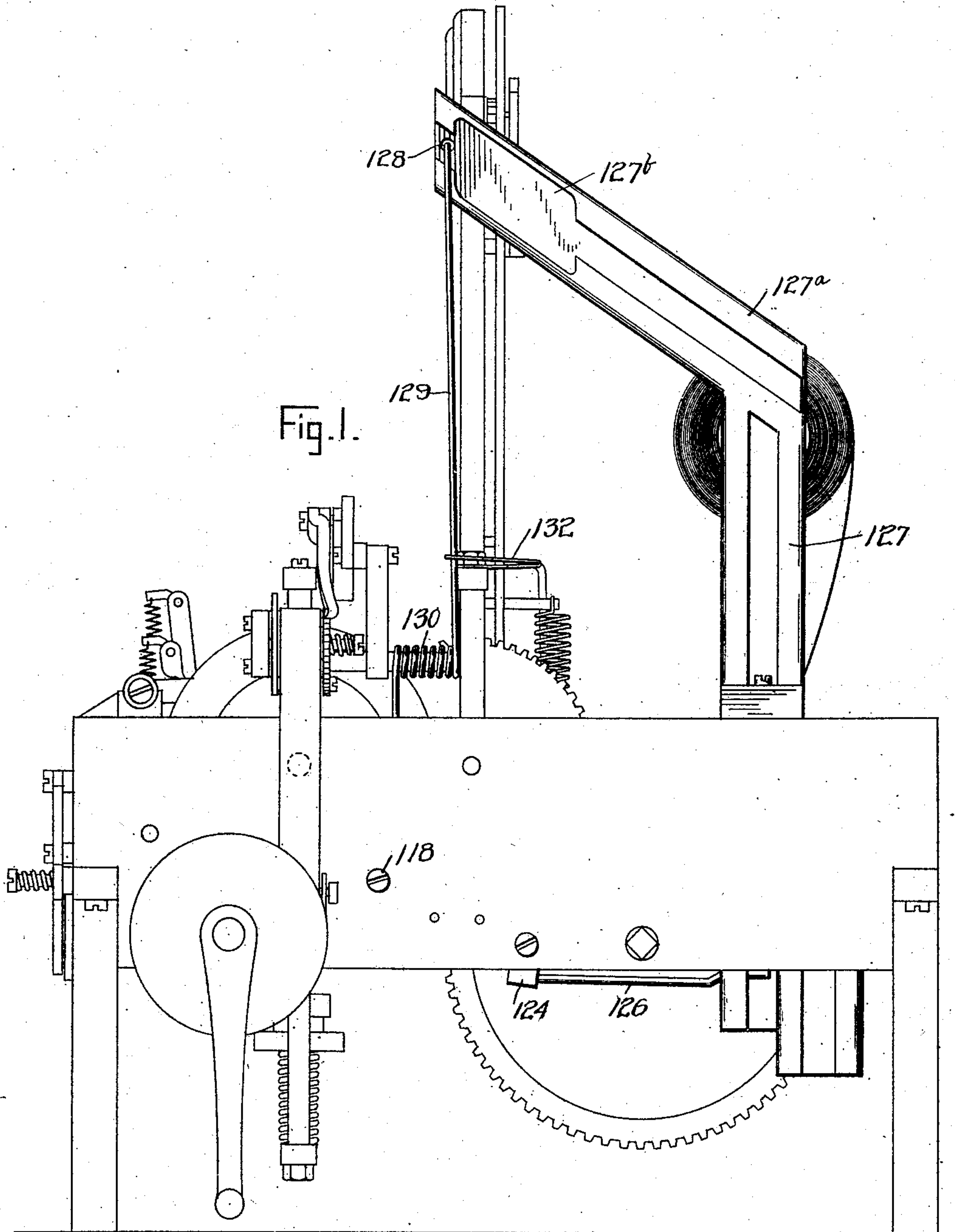


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COIN CONTROLLED MECHANISM.
APPLICATION FILED AUG. 24, 1909.

973,763.

Patented Oct. 25, 1910.

2 SHEETS-SHEET 1.



Witnesses
C. H. Reichenbach.
H. H. Byrne

Robert B. Craig
Albert Coffman,
By Knight Bros

Inventors,

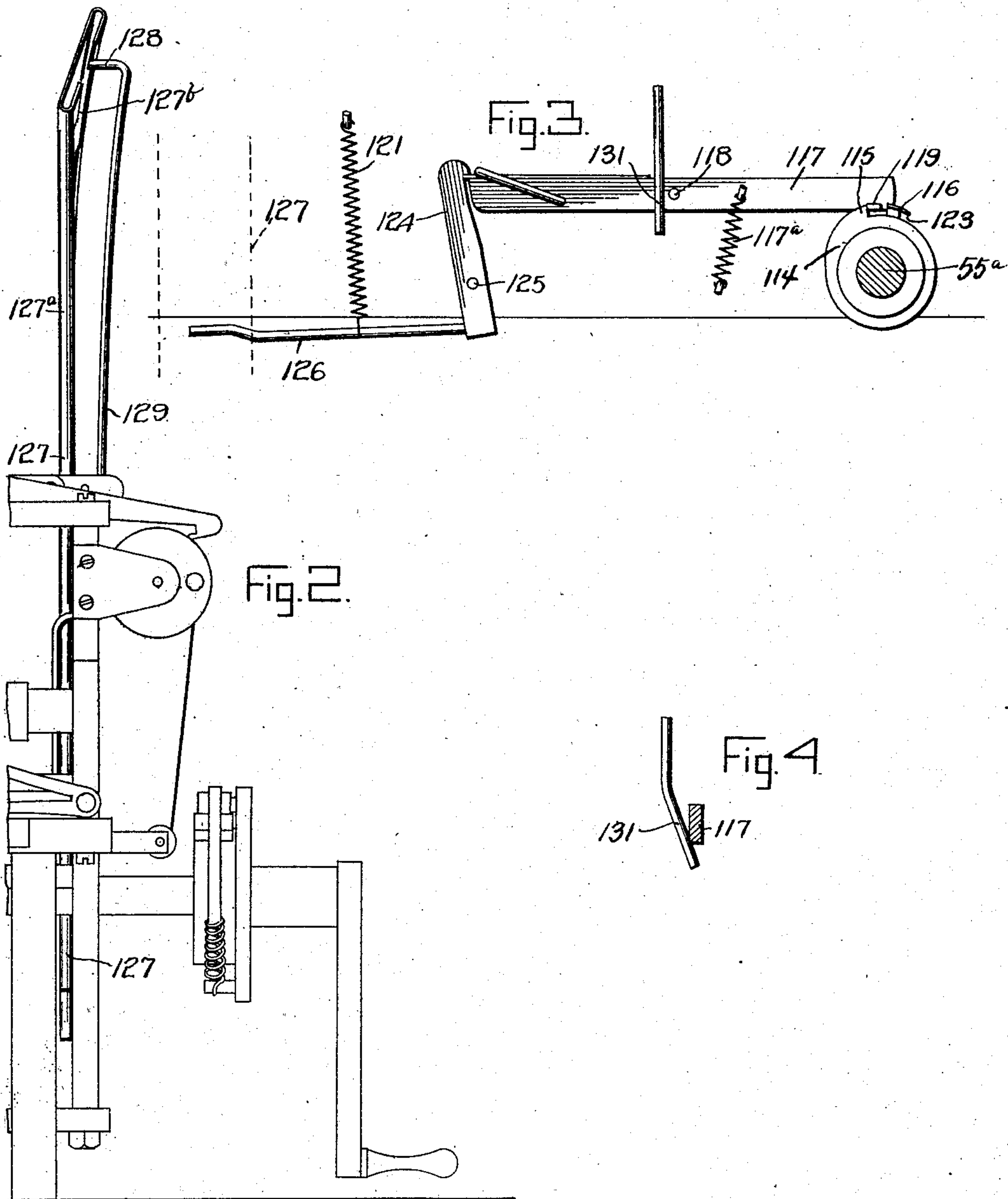
Attorneys

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 H. H. Byrne

Inventors,
 Robert B. Craig &
 Albert Coffman,
 By Knight Bros Attorneys.

UNITED STATES PATENT OFFICE.

ROBERT B. CRAIG AND ALBERT COFFMAN, OF DAYTON, OHIO, ASSIGNORS TO THE AUTOMATIC VENDING MACHINES COMPANY, OF KANSAS CITY, MISSOURI, A CORPORATION OF THE TERRITORY OF NEW MEXICO.

COIN-CONTROLLED MECHANISM.

973,763.

Specification of Letters Patent.

Patented Oct. 25, 1910.

Original application filed April 12, 1909, Serial No. 489,457. Divided and this application filed August 24, 1909. Serial No. 514,455.

To all whom it may concern:

Be it known that we, ROBERT B. CRAIG and ALBERT COFFMAN, citizens of the United States, and residents of Dayton, in the county of Montgomery, State of Ohio, have invented certain new and useful Improvements in Coin-Controlled Mechanism, of which the following is a specification.

The present invention relates to coin controlled mechanisms for machines caused to be actuated by the depositing of a coin therein, and is adapted particularly to a vending machine of that type disclosed in our co-pending application bearing Serial No. 489,457, and dated April 12, 1909, and of which application the present invention forms a division.

The purpose of the invention is in providing a mechanism of the character in question which, when associated with a machine of the type mentioned, will effectively keep its working parts against operation until such time as a coin has been deposited therein, but which on the depositing of such coin will cause said parts to be operated and perform their several respective functions.

In addition to the above purposes, the mechanism has the further advantages that a safety or detecting means is provided whereby coins other than those of the prescribed denominations will be ejected before reaching the coin actuating mechanism, and which will prevent the insertion of a coin during the operation of the machine or when the same should become out of order.

The invention is shown by way of illustration in the accompanying drawings, wherein,

Figure 1 discloses the same in side elevation and applied to a machine of the type mentioned, Fig. 2 is a front elevation of the same, Fig. 3 is a side elevation in detail of the coin actuated mechanism, and, Fig. 4 is a detail showing the relative relation between the releasing lever and the guard bar.

Referring to the several figures in detail and wherein like reference characters indicate corresponding parts in the different views shown, 55^a designates the actuating shaft of the machine and for a detail description of which reference may be had to the co-pending application above referred to. Said shaft carries a cam disk 114 which

is provided with a shoulder 115 whose purpose will be presently made clear. A lever 117 is fulcrumed on a pin 118 within the machine frame (see Fig. 1) and carries on its forward and lower end a pin 119 that normally lies between the shoulder 115 and a stop 116 that is carried on one side of the disk 114 and which projects slightly in advance of the shoulder 115. The stop 116 is recessed on its under side as at 123 so that when the pin 119 is depressed it may pass through said recess and permit the cam disk 114 and the shaft 55^a to rotate.

The several parts just described and their manner of operation are substantially that set forth in applicants' co-pending application hereinbefore referred to. The opposite end of the lever 117 is engaged by a detent 124 which is pivoted at 125 within the machine frame and is normally held in engagement with said lever by the spring 121 and has one end anchored to the machine. An arm 126 extending from the detent 124 on the opposite side of its fulcrum 125 projects into the path of a coin in the coin chute 127, in which position it is adapted to be struck by a coin deposited in the chute and causes the detent 124 to release this engagement with the lever 117, whereupon the latter is caused to disengage from the cam disk 114 and permit the operation of the shaft 55^a, which operation effects the feeding of the paper, the printing thereof, and actuates the severing device in precisely that manner described in the case above mentioned.

The coin receptacle comprises a chute 127 having an outwardly disposed and a forwardly inclined length 127^a, which terminates in any appropriate position adapted to receive the coin to be inserted. The portion 127^a of the chute is slightly inclined or tilted and has on its under side or face an aperture 127^b of such dimensions that any coin other than that of the denomination prescribed will, by reason of the incline, fall through the opening 127^b and into any suitable receiver provided for the purpose.

To guard against the depositing of a coin in the coin receptacle should the machine become out of order, and also to close the depositing entrance to the coin chute during the operation of the machine, there is provided a barrier 128 carried by a staff 129

which is fulcrumed at 130 and extends thence downwardly and terminates with an angularly disposed portion 131 (see Fig. 4), which portion normally lies in contact with one side of the lever 117, which in its normal position tends to keep the staff 129 upright when the barrier 128 is cleared of the passage-way. When the lever 117 is actuated it releases its engagement with the member 131 of the staff 129 and permits said staff under the tension of a spring 132 to be thrown inwardly, whereby to cause the barrier 128 to close the entrance to the coin chute.

Having thus described the invention, what we claim as new therein and desire to secure by Letters Patent, is:—

1. In a coin controlled mechanism, the combination of a cam having a shoulder, a stop thereon disposed in advance of said shoulder and providing a recess, an arresting lever provided with a projection on one end adapted to enter between the shoulder and the stop and pass through said recess, a spring tending to move the lever out of arresting position, a detent engaging the opposite end of said lever and resisting such movement, an arm carried by and controlling said detent, and a coin chute directing a coin against said arm.

2. In a coin controlled mechanism, the combination of a cam having a shoulder, a stop carried by said cam and disposed in advance of said shoulder and provided with

a recess, an arresting lever provided with a projection on one end adapted to enter between the shoulder and stop and have passage through said recess, a spring tending to move the lever out of arresting position, a detent pivotally mounted and engaging the opposite end of said lever and resisting such movement, an arm fixed on said detent and controlling the same, a coin guard associated with said lever and adapted to be actuated thereby, and a coin chute directing a coin against said arm.

3. The combination with a coin controlled machine provided with a coin chute, of a guard for said chute, said guard comprising a staff fulcrumed on the machine and having a barrier and a controlling end; and a stop lever adapted to arrest the machine in operative position, said controlling end of the staff being disposed at an angle thereto and adapted to be engaged and deflected by the stop lever whereby to project the barrier into the path of the coin chute and prevent the insertion of a coin in said chute during the operation of the machine or when the machine becomes inoperative.

The foregoing specification signed at Dayton Ohio this 27 day of July, 1909.

ROBERT B. CRAIG.
ALBERT COFFMAN.

In presence of two witnesses:
H. M. WALSH,
H. BRAUM.