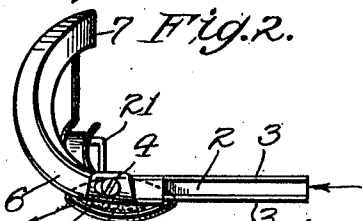
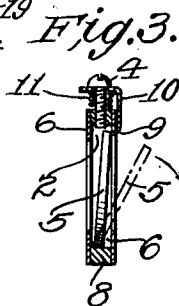
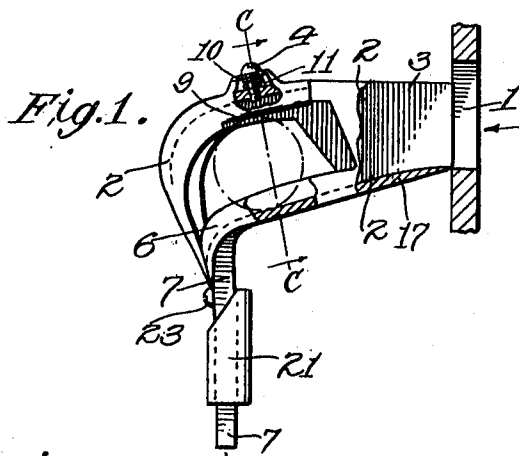
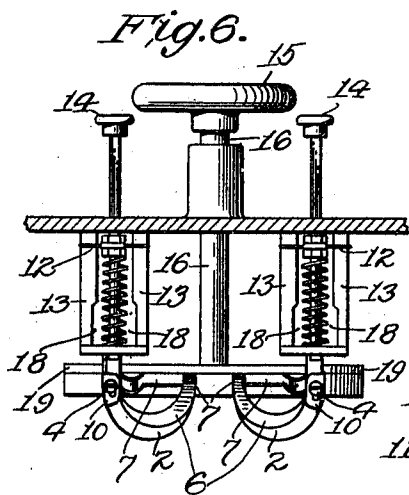
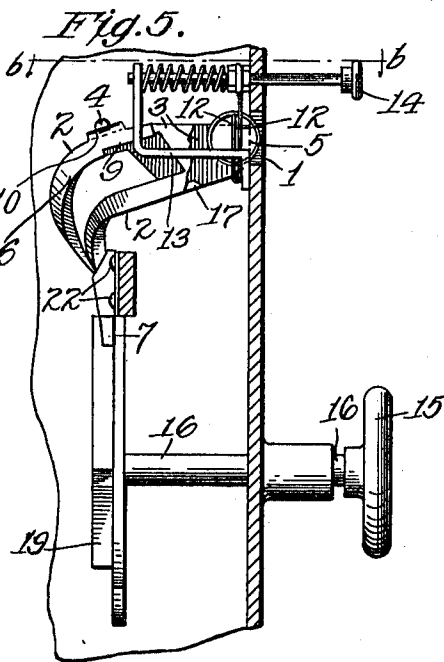
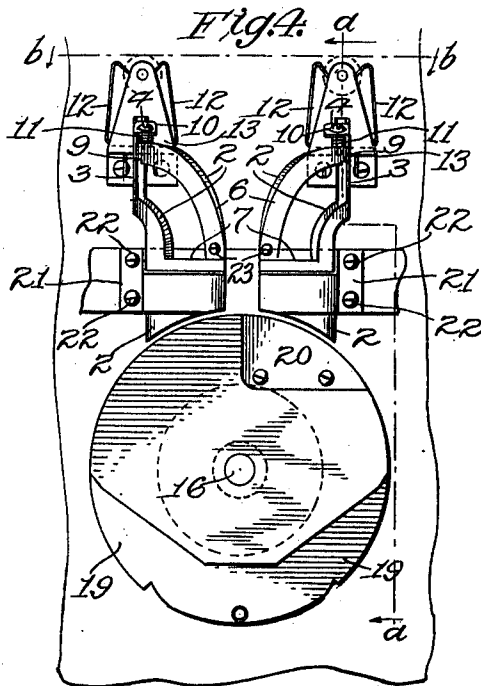


R. A. McCracken.
COIN DETECTOR CHUTE.
APPLICATION FILED JUNE 21, 1909.

980,112.

Patented Dec. 27, 1910.



Witnesses:
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UNITED STATES PATENT OFFICE.

ROBERT ALVIS McCRACKEN, OF SANTA ANA, CALIFORNIA, ASSIGNOR OF ONE-HALF
TO HENRY AMOS REED, OF LOS ANGELES, CALIFORNIA.

COIN-DETECTOR CHUTE.

980,112.

Specification of Letters Patent.

Patented Dec. 27, 1910.

Application filed June 21, 1909. Serial No. 503,521.

To all whom it may concern:

Be it known that I, ROBERT ALVIS McCRACKEN, a citizen of the United States, residing at Santa Ana, California, have invented a new and useful Coin-Detector Chute for Vending-Machines, of which the following is a specification.

My object is to provide a coin detector chute for vending machines which will receive a coin from the coin slot and turn the coin into a lower plane transversely of the coin slot, and to provide mechanism in the coin chute which will reject coins of too small a diameter, and my invention consists of the novel features herein shown, described and claimed.

In the drawings: Figure 1 is a detailed view showing the coin slot casing in section and showing a side elevation of the coin detector chute, parts being broken away and shown in section to illustrate the construction. Fig. 2 is a top plan view of the coin detector chute shown in Fig. 1. Fig. 3 is a vertical cross section on the line *c, c*, of Fig. 1 and looking in the direction indicated by the arrow. Fig. 4 is a rear elevation of a part of the works of a vending machine employing two of my coin detector chutes and showing mechanism into which the chutes deliver the coins. Fig. 5 is a vertical section on the line *a, a*, of Fig. 4. Fig. 6 is a top plan view of the parts shown in Figs. 4 and 5, a casing being shown in horizontal section as indicated by the lines *b, b*, in Figs. 4 and 5.

The details are as follows:

The coin slot 1 is formed vertically in the casing of the vending machine and is adapted to receive the coin loosely. The chute passage 2 leads straight back from the coin slot 1 the lower wall of the passage being inclined downwardly and after passing back a short distance the chute is curved laterally and downwardly until its discharge end 7 is in a lower plane and transverse of the coin slot 1. The sides 3 forming the chute passage are of thin metal or other suitable material and the chute passage forms a continuation of the coin slot passage.

An adjusting screw 4 is located some distance back of the receiving end of the chute passage and just at the beginning of the curved part 6 of the chute. An opening is formed through the side wall of the chute at a point near the adjusting screw 4

and the edge 9 of the adjusting plate 10 projects into this opening and an ear extends laterally from the adjusting plate 10, and the adjusting screw 4 is inserted through the ear and through the expansive coiled spring 11 and adjustably screw seated in the top of the chute, so that by manipulating the adjusting screw 4 the edge 9 of the adjusting plate may be accurately set so that a coin of the proper diameter will run along the chute and not fall out of the opening and so that a coin of too small a diameter will fall out of the opening. The chute is slightly inclined so that the upper edge of the coin 5 will be tilted against the adjusting edge 9 so that it will readily fall in that direction if it does not reach the adjusting edge.

The operating handle 15 of the vending machine is mounted upon the shaft 16 which extends through the casing of the vending machine and upon the rear end of the shaft are mounted the coin cams 19, the rear one of said cams being rigid upon the shaft and the forward one of said cams being loose upon the shaft and said cams carrying coin receiving recesses 20 into which the coin is discharged from the chute, said coin serving to lock the two cams together.

In Figs. 1 and 2 I have shown the bottom of the coin chute communicating with the coin slot 1 and in Fig. 4 I have shown the bottom 17 cut short so that the coin will fall from the coin slot through the bottom of the coin chute, and in Figs. 4, 5 and 6 I have shown mechanism for catching a good coin by the rim as it is inserted through the coin slot and carrying the coin backwardly beyond the upper end of the bottom 17 and then dropping it into the chute so that if the coin has not a proper rim it will not pass into the chute. This carrying mechanism comprises spring jaws 12 adapted to open and receive the coin and support the coin by the rim, and a push button 14 carrying the spring jaws so as to carry the coin backwardly to the position above the upper end of the bottom 17. The lower ends of the spring jaws 12 press outwardly against the guides 13 and the faces of said guides diverge at their rear ends as indicated at 18, so that when the push button is pressed backwardly the coin will be carried until the lower ends of the spring jaws open against the faces 18 and allow the coin to

drop upon the bottom 17, and if a coin is not of too small a diameter it will pass downwardly through the chute into one of the coin recesses 20 and connect the two cams together. A bracket 21 connects the lower ends of the chutes to the casing of the vending machine, said bracket being attached by screws 22. The lower end of the adjusting plate 10 is pivotally connected to the lower end of the chute by a screw 23, said plate forming the upper part of the side wall of the chute from the edge 9 to the lower end of the chute.

I claim:

15 A coin detector comprising a lower wall inclined downwardly from its receiving end and after passing back a short distance curved laterally and downwardly until its discharge end is in a plane transverse of its receiving end; two side walls extending upwardly from the lower wall, there being an opening through one of the side walls just

at the beginning of the curved part; a top wall extending from one of the side walls; an adjusting plate in position for its lower edge to form the upper edge of the opening; a set screw extending through the adjusting plate into the top wall; a spring around the screw between the top wall and the adjusting plate; said adjusting plate forming the upper part of one of the side walls; and the lower end of the adjusting plate being pivotally connected.

In testimony whereof, I, the said ROBERT ALVIS McCracken, have hereunto set my hand and seal at the city of Los Angeles, in the county of Los Angeles, in the State of California, in the presence of two subscribing witnesses.

ROBERT ALVIS McCracken. [L. s.]

Witnesses:

St. JOHN DAY,
J. D. CORY.