J. BOZIC.

COIN SEPARATOR.

APPLICATION FILED JUNE 29, 1918.

1,304,937. Patented May 27, 1919.

Fig. 1.

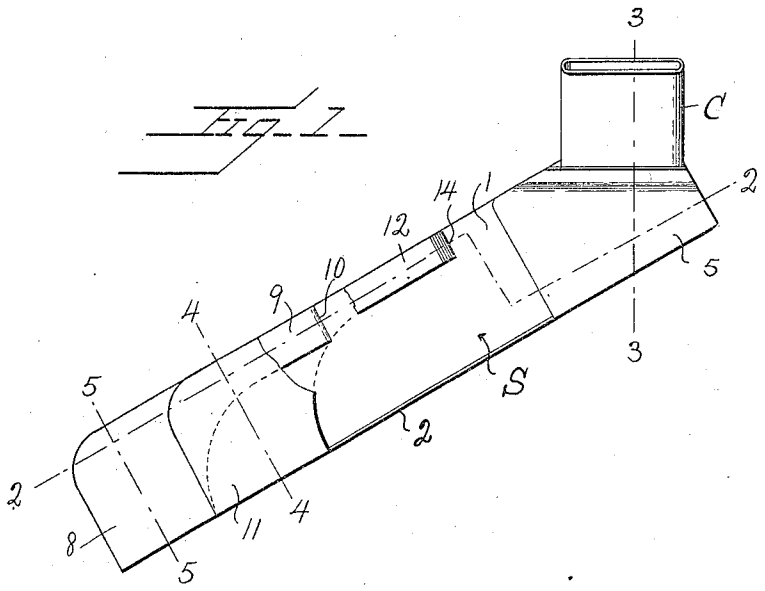


Fig. 2.

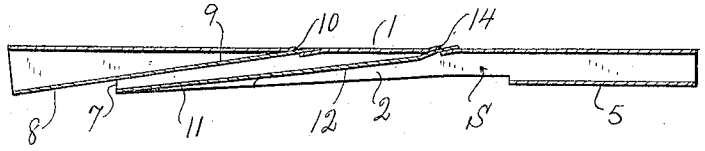


Fig. 4.

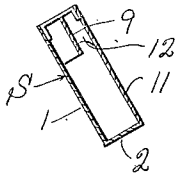


Fig. 5.

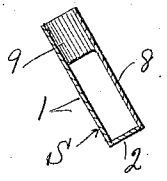
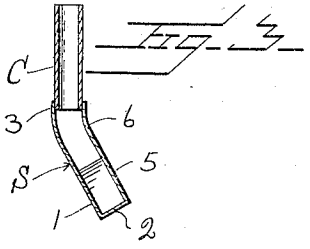


Fig. 3.



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JOSEPH BOZIC, OF JOHNSTOWN, PENNSYLVANIA.

COIN-SEPARATOR.

1,304,937. Specification of Letters Patent. Patented May 27, 1919.

Application filed June 29, 1918. Serial No. 242,540.

To all whom it may concern:

Be it known that I, JOSEPH BOZIC, a citizen of the United States, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Coin-Separators, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in coin separators and it is an object of the invention to provide a device of this general character which embodies a member provided with novel and improved means whereby coins may be separated in accordance with the diameters of the coins.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved coin separator whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood I will now proceed to describe the same with reference to the accompanying drawings, wherein:

Figure 1 is a view in side elevation of a coin separator constructed in accordance with an embodiment of my invention;

Fig. 2 is a sectional view taken substantially on the line 2—2 of Fig. 1;

Fig. 3 is a sectional view taken substantially on the line 3—3 of Fig. 1;

Fig. 4 is a sectional view taken substantially on the line 4—4 of Fig. 1; and

Fig. 5 is a sectional view taken substantially on the line 5—5 of Fig. 1.

As disclosed in the accompanying drawings C denotes a vertically disposed chute through which the coins deposited therein drop by gravity and secured to the lower end of the chute is my improved separating device S which extends laterally and downwardly therefrom on an angle of substantially 30° and which is arranged transversely on an incline relative to the perpendicular.

The device S as herein disclosed comprises a plate 1 having its lower longitudinal margin defined by the flange 2 along which the coins discharged from the chute C are adapted to travel. The upper end of the plate 1 is suitably fixed as at 3 with the outer face of a side wall of the chute C and the upstanding wing 5 carried by the upper and outer longitudinal marginal portion of the flange 2 is secured to the outer face of the opposite wall of the chute. The wing 5 is of a width in excess of the width of the chute C so that a coin when discharged from the chute C is caused to properly travel from the flange 2 and in contact with the adjacent face of the plate 1. In order to give the plate 1 its desired transverse inclination the upper portions of the wing 5 and the adjacent portion of the plate 1 are properly flexed or bent as indicated at 6.

The flange 2 gradually increases in width from the point adjacent the wing 5 and the lower end portion of the flange 2 is inwardly stepped as indicated at 7.

Suitably secured along the outer longitudinal margin of the stepped portion 7 of the flange 2 is an upstanding wing or plate 8. The upper marginal portion of the plate 8 is continued by the rearwardly directed extension 9 of predetermined length and which has its free end portion passing through a slit 10 cut in the upper marginal portion of the plate 1 and the portion of the extension 9 overlying the back of the plate 1 is suitably secured thereto by solder or any other means. In the present embodiment of my invention the maximum space between the inner marginal portion of the extension 9 and the flange 2 is less than the diameter of a "one cent" coin and in excess of the diameter of a "dime" coin so that when a "one cent" coin is delivered upon the flange 2 from the chute C the coin will be discharged from the flange 2 at the outer side of the plate 8 so that when the coin delivered upon the flange 2 is a "dime" the same will pass beneath the extension 9 and be discharged at the lower extremity of the flange 2 and plate 1. Secured to the marginal portion of the flange 2 adjacent the stepped portion 7 is a second upstanding plate 11 which is also provided at its upper portion with the rearwardly disposed extension 12. The free extremity of the extension 12 is disposed through a slot 14 cut in the upper portion of the plate 1 at a predetermined point inwardly of the slot 10 and the portion of the extension 12 underlying the plate 1 is secured thereto by solder or other suitable means. The maximum space between

the extension 12 and the flange 2 is slightly in excess of a "nickel" coin so that such a coin traveling along the flange 2 will be deflected by the extension 12 and the plate 11 and properly discharged.

While the present embodiment of my invention discloses a coin separator particularly adapted for use in connection with "one cent" pieces, "nickel" pieces, and "dime" pieces, it is to be understood that the same can be readily constructed to be effectively employed in connection with coins of other denominations. It is also to be understood that the various coins as ejected from the separator as herein employed are adapted to be conveyed by suitable means to registers or other places of deposit.

From the foregoing description, it is thought to be obvious that a coin separator constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:

1. A coin separator consisting of a plate arranged on a predetermined incline and having its lower longitudinal marginal portion defined by an outstanding flange over which coins are adapted to travel, the upper longitudinal margin of the plate being provided with a series of longitudinally spaced slits, and upstanding plates carried by the lower end portion of the flange and spaced apart transversely of the flange, each of said plates being provided at its upper portion with a rearwardly directed extension disposed through a slit in the first named plate and secured to the rear face of said first named plate, the spaces between the extensions of the second named plates and the flange varying.

2. A coin separator consisting of a plate arranged on an incline, the lower longitudinal marginal portion of the plate being provided with an outstanding flange over which coins are adapted to traverse, an upstanding plate carried by the lower portion of the flange and spaced from the first named plate, the upper portion of the second named plate being provided with an extension secured to the first named plate at a point rearwardly of the second named plate, an upstanding wing carried by the upper portion of the flange, and a chute discharging upon the flange of the first named plate at the upper end portion thereof, the discharge end portion of the chute extending between the wing and the adjacent portion of the first named plate and secured thereto.

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

JOSEPH BOZIC.

Witnesses:
H. G. NICKEL,
HELEN VON ALT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."