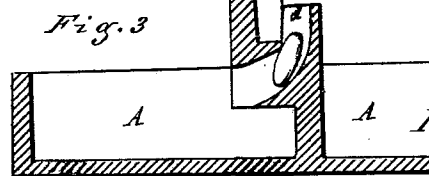
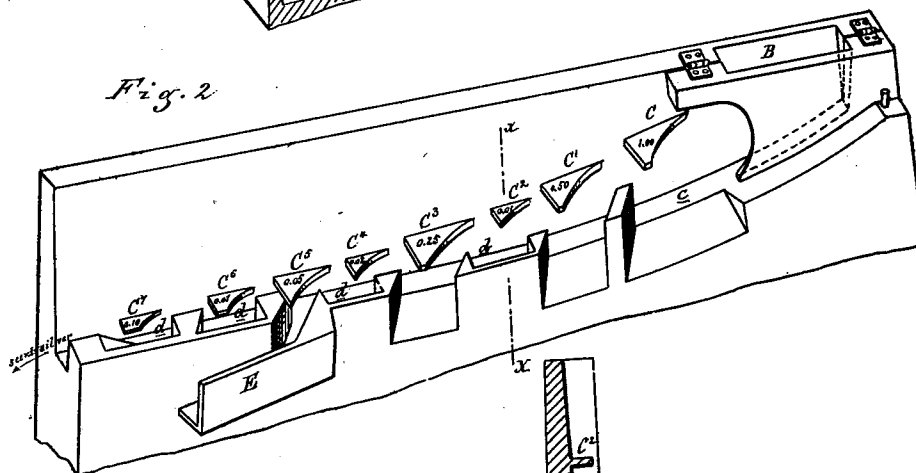
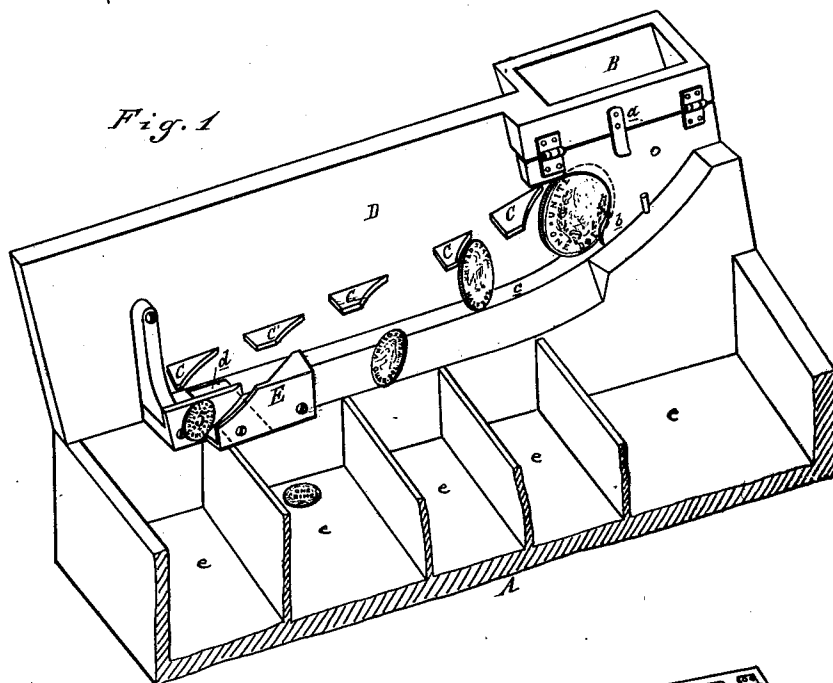


(No Model.)

J. H. JUNKIN.
Coin Separator.

No. 229,712.

Patented July 6, 1880.



Attest:
A. Barthel
Charles J. Nunk

Inventor:
J. H. Junkin
By
J. H. Junkin

UNITED STATES PATENT OFFICE.

JAMES H. JUNKIN, OF JACKSON, MICHIGAN, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO WINFIELD C. HEYSER AND WALTER J. HEYSER, OF SAME PLACE.

COIN-SEPARATOR.

SPECIFICATION forming part of Letters Patent No. 229,712, dated July 6, 1880.

Application filed March 12, 1880. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. JUNKIN, of Jackson, Jackson county, Michigan, have invented an Improvement in Coin-Separators, of which the following is a specification.

My invention relates to coin-separators; and it consists in certain improvements therein, as hereinafter more fully set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is sectional perspective, showing the construction of a box adapted to sort and hold the silver coinage of the United States, including and from the dime upward, and the five-cent nickel piece. Fig. 2 is a like view adapted to the silver, nickel, and copper coinage of the United States. Fig. 3 is a vertical cross-section on the line *x x* in Fig. 2.

In the accompanying drawings, which form a part of this specification, A represents a cash-box or money-drawer subdivided into compartments *e* to receive coins of different value, as shown and marked. B is a hopper or orifice, into which the coins, as received, are dropped. One side, *o*, of the hopper is hinged, as shown, and is provided with a spring, *a*, to enable the side to yield slightly to prevent coins choking in the throat *b*, through which they roll upon edge along the slightly-inclined plane *c*. Curved deflecting-stops C are secured, as shown in Fig. 1, so that they project at right angles from a riser, D, supported above the box, and these stops are arranged thus: The one nearest the hopper will allow every coin to pass under it except the silver dollar, which, as it rolls along the slightly-inclined plane, will abruptly turn and be compelled to drop into the compartment designed for it, and so on, each successive stop is arranged to deflect from its course and compel to drop into its compartment the coin next in size—to wit, the silver half-dollar—and so on for the smaller silver coins. As the five-cent nickel coin is larger than the dime, the stop C' is interposed between the stops C for the dime and quarter-dollar, and it deflects the nickel coin into the chute E, by means of which it is guided into its compartment. With this arrangement the silver dime will pass under the stop C' and be dropped into the channel *d*,

(shown in dotted lines in Fig. 1 and in section in Fig. 3,) which conducts the coin into its proper compartment, so that, commencing with the left-hand compartment in the box, which is designed for the five-cent nickel, each successive multiple of such coin, in regular gradation, will be found in the compartments to the right.

In Fig. 2 an arrangement is shown embodying the same general features as hereinbefore described, by means of which all the nickel, copper, and silver coins are distributed—for instance, C deflects the dollar, C' the half-dollar, C² the large copper cent into a chute, *d*, as herein described, C³ the quarter-dollar, C⁴ the copper two-cent piece into another chute *d*, C⁵ the five-cent nickel into the chute E, C⁶ the small copper cent into the chute *d*, and C⁷ the silver dime into another chute, *d*, leaving the silver coin of smaller denomination to be delivered at the end of the inclined plane.

It will readily be seen that by the arrangement of parts every coin, no matter what its denomination, dropped into the hopper or orifice B will be automatically deposited, each in its own compartment of a drawer or box, which compartments are so arranged from left to right or right to left that the end compartment will receive the smallest coin in value and each of the succeeding compartments each its coin of succeeding value.

What I claim as my invention is—

1. The combination, with the hopper B, of the hinged side *o* and spring *a*, whereby coins are prevented from choking in the throat of the hopper in their passage through it, substantially as described, and for the purpose set forth.

2. The combination, with the box A, provided with compartments *e*, of the incline *c*, having chute E and opening *d*, stops C C', riser D, and hopper B, arranged above the incline, and provided with the hinged side *o* and spring *a*, substantially as described, and for the purpose set forth.

JAMES H. JUNKIN.

Witnesses:

A. BARTHEL,
CHAS. J. HUNT.