U. B. WHITE AND M. H. WETZEL.

CARD DISTRIBUTING DEVICE.

APPLICATION FILED MAY 19, 1919.

1,341,695.

Patented June 1, 1920.

2 SHEETS—SHEET 1.

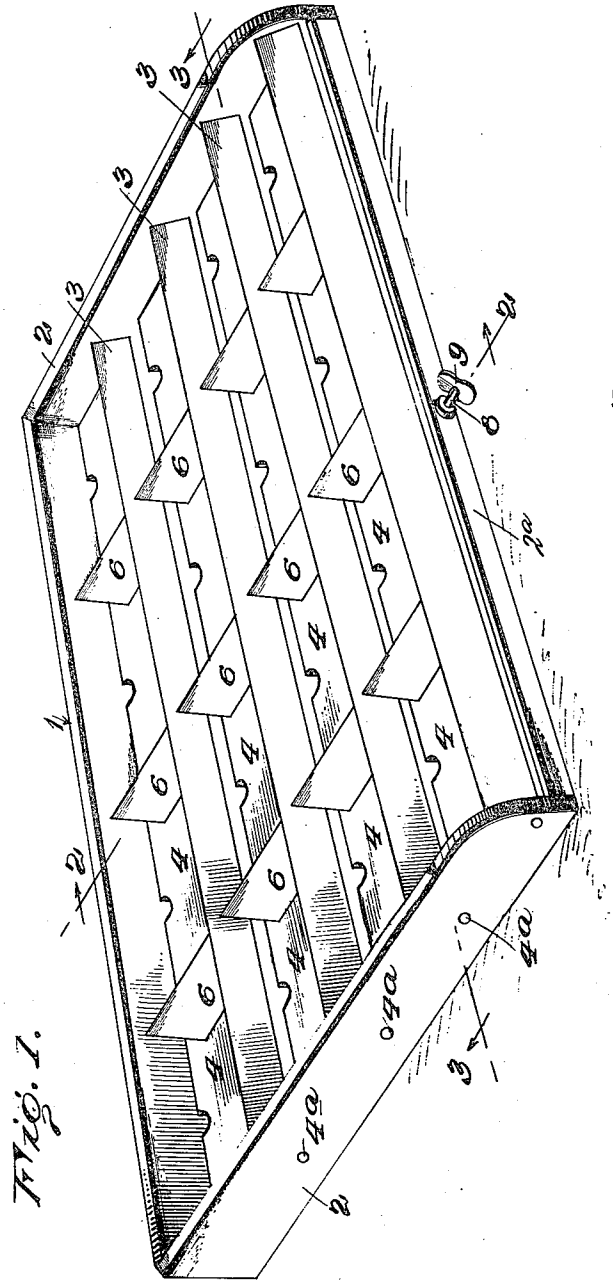


Fig. 1.

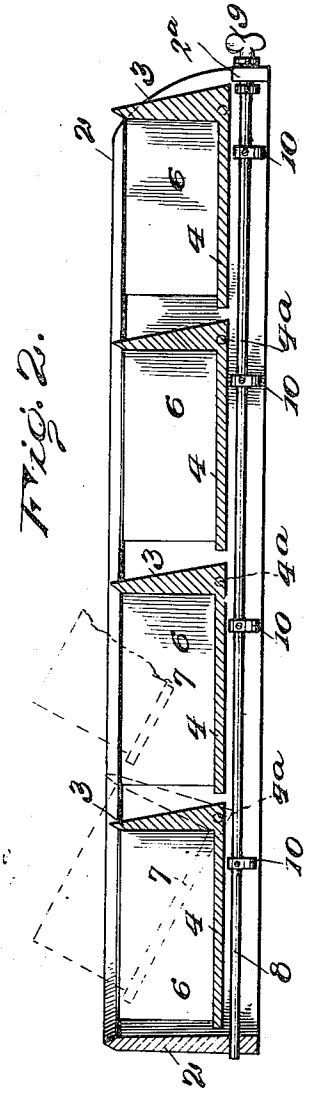


Fig. 2.

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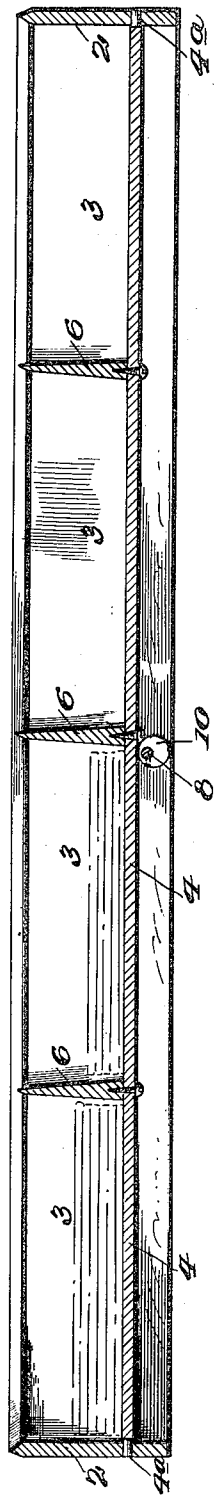


Fig. 3.

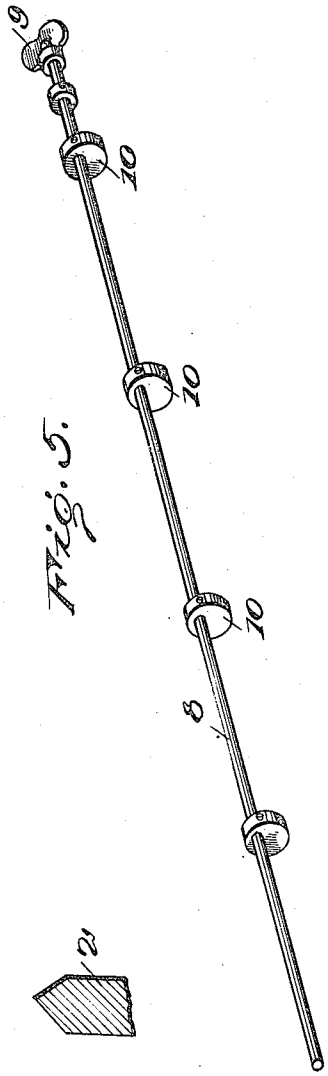


Fig. 5.

Fig. 4.

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UNITED STATES PATENT OFFICE.

UNION B. WHITE AND MYRON H. WETZEL, OF SEATTLE, WASHINGTON.

CARD-DISTRIBUTING DEVICE.

1,341,695. Specification of Letters Patent. Patented June 1, 1920.

Application filed May 19, 1919. Serial No. 298,088.

To all whom it may concern:

Be it known that we, UNION B. WHITE and MYRON H. WETZEL, citizens of the United States, residing at Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Card-Distributing Devices, of which the following is a specification.

This invention relates to an improvement in card distributing devices, in the use of which a number of cards may be readily and quickly distributed according to predetermined definition.

The invention contemplates a tray or the like divided into compartments into which the cards are to be distributed, the bottoms of the compartments being adapted for oscillation in order that the cards failing to exactly and properly reach the particular compartment, may through the oscillation of such bottoms be caused to gravitate into the particular compartment.

In the accompanying drawings:—

Figure 1 is a perspective view of the improved distributing device.

Fig. 2 is a transverse section of the same.

Fig. 3 is a longitudinal section of the same.

Fig. 4 is an enlarged vertical sectional view of one of the partitions, showing particularly the upper edge thereof.

Fig. 5 is a perspective view of the rocker shaft.

The improved distributing device as here illustrated, comprises a tray 1 of the size desired for the number of compartments contemplated, the marginal edge of the tray, having flanges 2, rising above the upper surface of the tray, to form in part an edge outline of the compartments.

The space within the flanges 2 is divided, longitudinally of the tray for example by regularly spaced strips 3, mounted pivotally upon the pins 4^a in the end flanges, as shown. The free ends of the flanges 2 are connected by a strip 2^a as shown in Fig. 1. The spaces between the respective partition strips 3, and between such strips and the side flanges have movable bottoms in the form of sections 4, extending approximately throughout the length and breadth of the space. These sections 4 are mounted for pivotal movement with relation to the end flanges, and partition strips, on pins 4^a, as above described, though ordinary hinges may be used if desired. The pivotal mounting of the bottoms is adjacent one and the similar side edge of each, the opposing side edge of each being free.

On each bottom is secured at appropriate intervals transverse strips 6, which thus divide the space between the longitudinal strips 3 into a series of card receiving compartments, indicated at 7. The upper or free edges of the strips 3 and 6 are preferably formed by convergent cuts into inverted V-shaped edges, extending longitudinally of the strip as seen in Fig. 4, for a purpose which will later appear.

A rocker shaft 8 is mounted beneath the tray bottoms, and provided with an operating handle 9 at one end. This shaft is preferably arranged transversely of the tray at about the central portion thereof, and is provided beneath each movable bottom 4, preferably adjacent the supported edge thereof with cam members 10, which when the shaft is rocked or rotated will be caused to periodically raise and lower the free edges of the bottoms 4, as will be apparent.

In distributing a mixed series of cards in accordance with a predetermined arrangement and to collect all the cards of particular sets in the particular compartments marked or otherwise designated for their reception, the cards are delivered as nearly into the proper compartment as may be possible consistent with required speed of distribution. Of course there will be a number of cards particularly where the compartments are large in number, which will not be accurately placed in the proper compartment, though even, under approximate accuracy such cards will rest for the greater portion of their length or width within the proper compartment. Oscillation of the bottoms, through movement of the rock shaft will impart movement to such partially displaced cards, to cause said cards to finally position themselves in the proper compartments. This tendency of the displaced cards to gravitate toward the proper compartment under the oscillations of the bottoms is materially facilitated by the form of the upper edge of the partition strips, as directing surfaces for the cards as thereby provided.

The longitudinal strips 3 are rigid with the bottoms 4 so that their right angular relation will be preserved at all times

throughout their course of movement, the purpose of which is to prevent a card pack from jamming.

The improved device permits a very speedy distribution of the cards or the like, as the operator does not have to take the time and exercise the care necessary to carefully and distinctly place each card accurately within its proper compartment, but may finally so place all slightly displaced cards through the oscillation of the bottoms.

What is claimed as new is:—

1. A tray having a marginal flange, spaced parallel partition strips secured in opposing sections of the flange, a bottom between each adjacent pair of strips, means for hingedly supporting each bottom and strip adjacent one longitudinal edge thereof, a rock shaft mounted below the bottoms, and a cam on such shaft beneath each bottom.

2. A card distributer, comprising a tray, having a back flange, side flanges extending therefrom, a strip connecting the free ends of the side flanges, spaced parallel partition strips, bottoms secured thereto, said partition strips and bottoms being disposed between the side flanges, pins extending from said bottoms near one longitudinal edge and pivotally supported by the side flanges, spaced transverse partitions carried by the bottoms, a rock shaft mounted below the bottoms in the strip and back flange, cams on the shaft beneath each bottom, and an operating handle on one end of the shaft.

In testimony whereof we affix our signatures in the presence of two witnesses.

UNION B. WHITE.
MYRON H. WETZEL.

Witnesses:
P. D. BROWNING,
W. J. MONTGOMERY.