

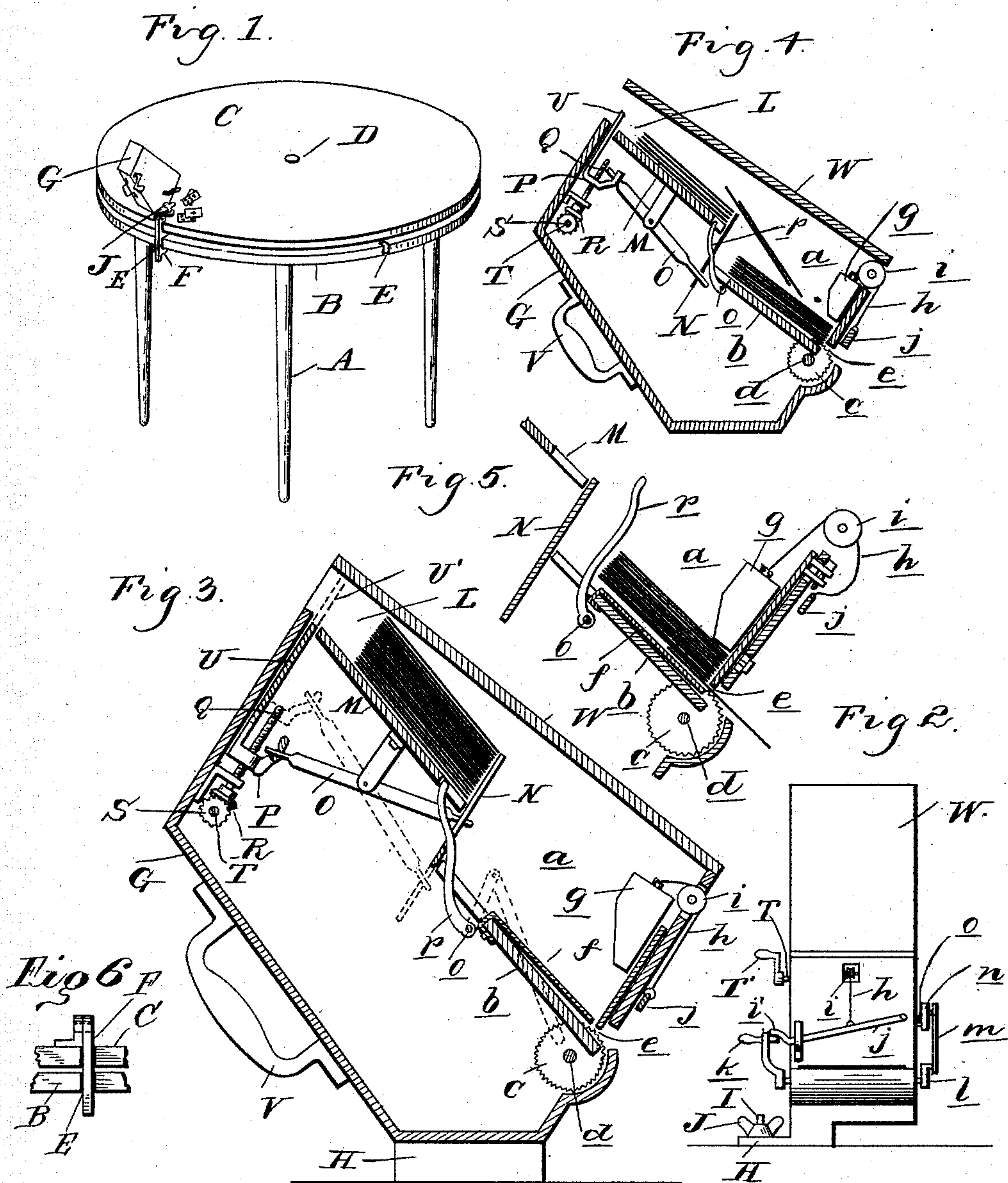
(No Model.)

W. H. RANNEY.

## CARD SHUFFLING AND DEALING MECHANISM.

No. 483,364.

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# UNITED STATES PATENT OFFICE.

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## CARD SHUFFLING AND DEALING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 483,364, dated September 27, 1892.

Application filed February 29, 1892. Serial No. 423,200. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. RANNEY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Card Shuffling and Dealing Mechanism, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to new and useful improvements in card shuffling and dealing machines; and the invention consists in the peculiar construction of a case containing a card-receptacle, mechanism for receiving the  
15 cards, and mechanism for dealing the same, the case being pivoted to the table, so that the cards may be dealt in various piles around the table.

20 The invention further consists in the peculiar construction of the table having a revolving top carrying the case, so that the case may be moved around to the various players at the table, with means for locking it in its adjusted position.

25 The invention further consists in the peculiar combination, arrangement, and construction of the various parts, all as more fully hereinafter described.

30 In the drawings, Figure 1 is a perspective view of my improved table and card shuffling and dealing machine attached thereto. Fig. 2 is a front elevation thereof. Fig. 3 is a vertical central longitudinal section. Fig. 4 is a similar section showing the parts in a different position. Fig. 5 is a similar section illustrating the manner of dealing the cards. Fig. 6 is a detail view of the catch.

40 My table is provided with suitable legs A and the stationary top B, upon which is secured the supplementary false top C, pivoted upon the central pivot D and adapted to turn around its pivotal point.

45 The top B is provided with suitable notches E, and the top is also provided with a pivoted latch F, adapted to engage in said notches and hold the top in its adjusted position, there being a suitable number of these notches, and so placed that they represent the number of players at the table, so that the top C may be  
50 stopped at a point where each player is seated, and thus insure a perfect rotation in the dealing. The latch F, as shown in Fig. 6, is piv-

oted at its upper end and its lower end extends down below the top. It is only necessary to lift the lower end of the latch out of the  
55 groove when the top is to be turned.

G is a case of any suitable shape having the foot H resting upon the table and pivoted upon a pin I, projecting from the top C, being preferably detachably secured by means  
60 of the winged nut J. In this manner the case may be turned with its forward side to any point on the table. The case is substantially rectangular in shape, the foot H being preferably formed at one corner, and in form-  
65 ing it it may be cut away or squared, as shown in Fig. 3. The casing being supported upon one corner, its forward face will be inclined.

70 At the upper corner of the box a card-receptacle L is formed by the stationary partition M and the movable partition N. The partition N is slidably secured in bearings and forms the lower end of the card-chamber L, the bottom M of which is inclined at a sharp  
75 angle. The partition N is supported at the end of the lever O, which at its other end pivotally engages in a bearing in a screw-block P, which engages upon a screw-shaft Q, journaled in bearings at the side of the  
80 casing and having a gear-wheel R at its lower end, with which the pinion S upon the shaft T engages. This shaft extends to the side of the machine and at its outer end is provided with a crank T'. By turning the crank T'  
85 the screw-shaft Q will be rotated and the nut P will be raised or lowered, carrying through the medium of the lever O the partition N. To this nut P is secured a sliding door U, adapted to open and close the aperture U',  
90 through which the cards are adapted to be placed in the chamber L.

a is a chamber formed in the casing beneath the partition N and having a stationary inclined bottom b, the front of the casing  
95 forming the front of the partition.

c is a delivery-roll of any suitable material—such as rubber—secured upon the shaft d, arranged transversely of the casing and projecting with its upper edge slightly above  
100 the lower end of the bottom b of the chamber a.

e is an exit-aperture in the front of the casing and over the roll c.



*f* is a spring-bottom secured upon the partition *b* and normally separated therefrom sufficiently to close the exit-opening *e*.

*g* is a weight suspended by a cord *h*, which passes over a grooved wheel *i* and is secured to the lever *j* on the front of the machine, provided with a handle *i'* at the side, with suitable means for holding it in its lowered position.

*k* is a crank secured at the end of the shaft *d*. At the opposite end of this shaft is the crank-arm *l*, to which is connected the connecting-rod *m*, secured at its other end to the crank-rod *n* on the shaft *o*.

*p* is an arm or finger secured to the shaft *o* centrally of the casing and acting as a compressor to bunch and arrange the cards in proper position for dealing after they are shuffled, as will be more fully hereinafter described.

The parts being thus constructed, the casing secured upon the table, and the screw *P* in its lowered position, so that the door *U* leaves the aperture *U'* open, the cards may be inserted therethrough into the chamber *L* and will rest with their lower ends against the partition *N*. The operator now turning the crank *T'* will gradually raise the nut *P*, closing the door *U* as it rises, and lowering the partition *N*. As this partition is lowered the top cards will slide off the pack and fall into the chamber *a*, resting upon the false spring-bottom *f*. The cards will fall in small bunches of one, two, or five, seldom falling one at a time, because the inclination of the bottom *M* is such that the friction between the cards is sufficient to prevent their movement until ordinarily more than one card has been released by the lowering of the partition *N*. Thus the cards will be thoroughly shuffled and be delivered from the chamber *L* into the chamber *a*. In the meantime the aperture *U'* will have been closed by the door *U*. The operator to get the cards in compact form for delivery will now turn the crank *k*, which will oscillate the packer *p* from the position shown in Fig. 3 to that shown in Fig. 5. As soon as the cards are packed, as shown in Fig. 5, the operator will by a forward motion release the lever *i*, allowing the weight *g* to impinge upon the top of the cards, as shown in Fig. 5, which will overcome the tension of the spring-bottom *f* and open the exit-opening *e*, bringing the lower card in contact with the surface of the delivery-roller *c*. Now by turning the casing upon its pivot *I* toward the person to whom the first card is being delivered the operator turns the crank

and the lower card will be delivered, as shown in Fig. 5, and in this way the cards can be dealt to the players in the ordinary manner.

To again use the device, the operator turns the crank *T'* in the opposite direction from that which it has been previously moved, lowering the door *U* and also depressing the lever *i* to raise the weight *g* to the position shown in Fig. 3.

*V* is a suitable handle on the casing, by means of which it may be moved or carried.

*W* is a hinged cover, which may be opened when it is desired to take the cards out of the casing.

What I claim as my invention is—

1. In a game apparatus, the combination, with a rotatable support, of a card-dealing apparatus mounted on the support and a latch for locking the support, substantially as described.

2. The combination, with a casing of a card-receptacle having an inclined bottom, of a movable partition at the lower end thereof, means for lowering that partition, a second receptacle below the first one, and means for dealing the cards from said second receptacle, substantially as described.

3. The combination, with the casing having a card-receptacle at its upper end and provided with an inclined bottom, of a movable partition at the lower end thereof and means for lowering said partition, substantially as described.

4. The combination, with the casing of a card-receptacle having an inclined bottom, of a movable lower end for said receptacle, a second receptacle below the movable partition, bunching mechanism in said second receptacle, and card-delivery mechanism therein, substantially as described.

5. The combination, with the casing of the receptacle *a*, having the spring-bottom *f* and the exit-aperture *e* at the lower edge, of a delivery-roll and a weight *g*, substantially as and for the purpose described.

6. The combination, with the casing having the receptacle *a* therein, the inclined bottom therefor, and the exit-partition at the lower edge of said receptacle, of the buncher *p*, the delivery-roll *c*, and weight *g*, substantially as described.

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

WM. H. RANNEY.

Witnesses:

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