

H. HURM.

DEVICE FOR SHUFFLING AND DISTRIBUTING CARDS.

APPLICATION FILED JAN. 23, 1912.

1,043,109.

Patented Nov. 5, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

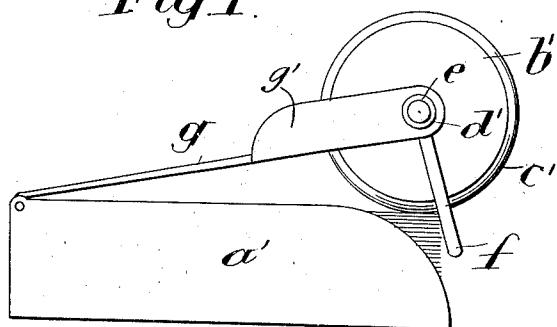


Fig. 2

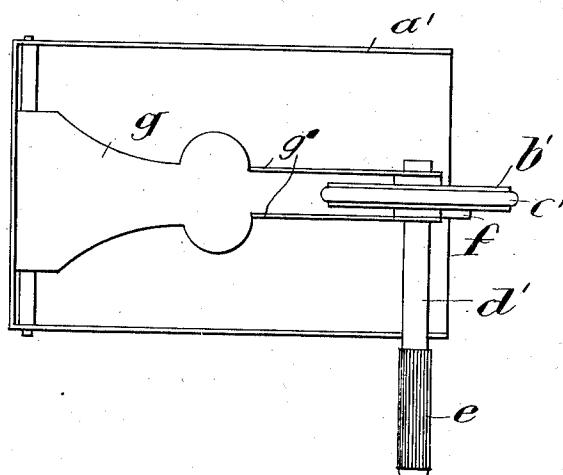
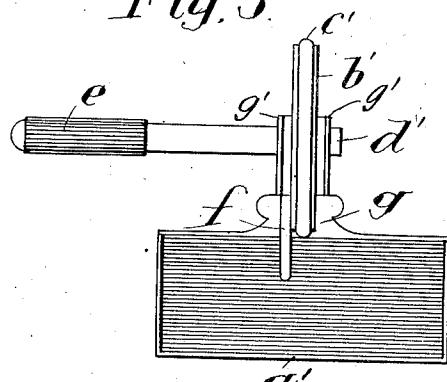


Fig. 3



Witnesses:

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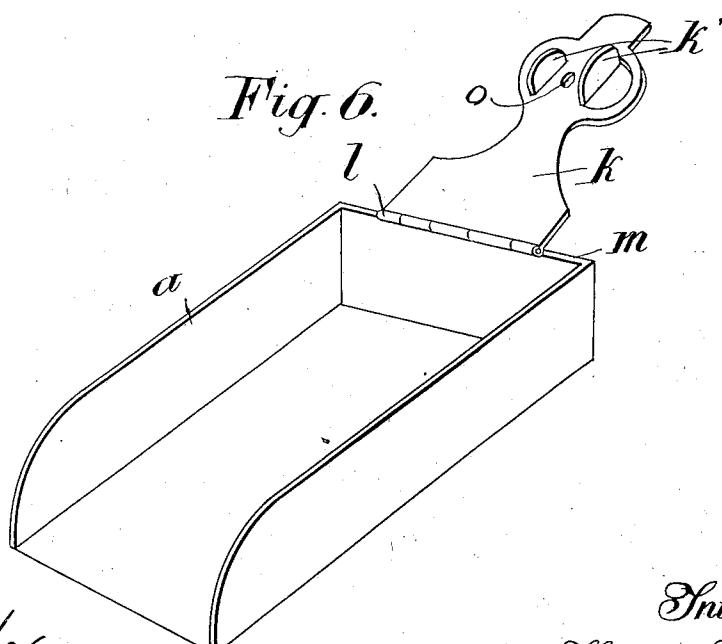
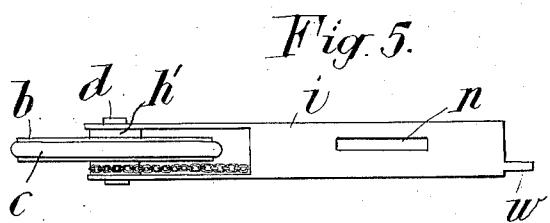
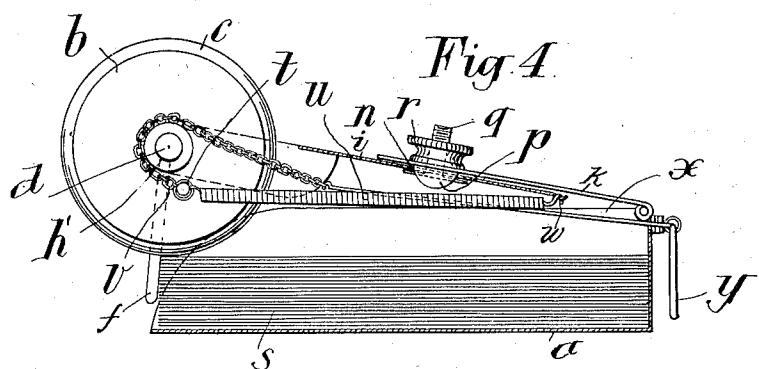
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

HORACE HURM, OF PARIS, FRANCE.

DEVICE FOR SHUFFLING AND DISTRIBUTING CARDS.

1,043,109.

Specification of Letters Patent.

Patented Nov. 5, 1912.

Application filed January 23, 1912. Serial No. 672,925.

To all whom it may concern:

Be it known that I, HORACE HURM, a citizen of the French Republic, and resident of 14 Rue Jean Jacques Rousseau, Paris, France, have invented certain new and useful Improvements in Devices for Shuffling and Distributing Cards.

My present invention relates to devices for the preliminary manipulation of playing cards, in which the pack is shuffled by providing a receptacle to receive part of the pack of cards while the remaining cards are disposed to position themselves by gravity between those in the receptacle, and the cards are delivered from the receptacle by manually aiming it toward the place in front of the player participating in the game.

The principal objects of my invention are, to provide a device which is simple in construction, inexpensive to manufacture, and one which is adapted to quickly distribute the cards.

Further objects of my invention are to provide means for the shuffling and distribution of the cards, that the possibility of fraud and the undesirable soiling of the cards by moisture of the hands in dealing, is avoided.

In the drawings, forming a part of this specification: Figure 1 is a side elevation of a device constructed according to my invention. Fig. 2 is a top plan view of the same. Fig. 3 is an end elevation of the same.

Fig. 4 is a longitudinal sectional view of a modified form of device embodying my invention. Fig. 5 is a top plan view of one of the details of the device as disclosed in Fig. 4. Fig. 6 is a perspective view of the card receptacle and appertaining parts thereof.

Similar characters refer to similar parts throughout the views.

With particular reference to Figs. 1, 2 and 3, *a'* designates a box-like receptacle for the cards, open at the top and one end and adapted to be grasped in the hand of the manipulator. Adjacent the upper margin of the closed end of the receptacle, and projecting forwardly therefrom, I pivot an oscillatable arm *g*, having upturned portions *g'* which conveniently form bearings for a spindle *d'*, fluted longitudinally as at *e*, exteriorly of the bearings *g'*. This spindle *d'* carries, keyed thereto in any suitable manner, a wheel *b'* intermediate the bearings *g'*,

and this wheel is preferably provided with a peripheral covering *c'* of such material as rubber, as having a high co-efficient of friction, so as to impart its movement to the cards, in the desired manner. The spindle *d'* is so disposed with respect to the arm *g* as to position the wheel *b'* to tangentially engage the top card of the pack contained in the receptacle *a'*, adjacent its margin at the open end of the receptacle. The spindle *d'* carries with it, a finger *f* which limits oscillation of the spindle and positions the cards for successful operation by the wheel *b'*. This finger *f* projects beyond the periphery of the wheel *b'* and its covering *c'*, and is disposed preferably to one side next adjacent the wheel *b'*. When the wheel is turned, in one direction, say forwardly, by the spindle *e*, this finger *f* ultimately engages the front of the ends of the cards forming the pack, and brings their margins into alignment. When the wheel is turned rearwardly, that is, in a counterclockwise direction as viewed in Fig. 1, the upper card is advanced and the finger *f* engages the arm *g* to prevent further actuation of the wheel *b'* to advance more than one card. Oscillation of the wheel *b'* successively advances the top card. If desired, the thumb of the hand grasping the receptacle *a'* may be placed on the arm *g* to give slight pressure thereupon when advancing the cards and relieving the same when returning the wheel for another advance.

In the device as disclosed in Figs. 4, 5 and 6, a receptacle *a* for the cards is provided, having an open end and open top. Adjacent the upper margin of the closed end *m* of the receptacle, I pivotally mount, as at *l*, an arm member *k* provided with downwardly extending guide means *k'*, spaced apart from each other, and an aperture *o*, for a purpose to be subsequently disclosed. An arm extending portion *i* is adapted to reciprocate between the said guide means *k'* and is provided with a longitudinally extending slot *n*, bearings *h'* and preferably a hook portion *w*, at the end opposite bearings *h'* for a purpose to be subsequently disclosed. The bearings *h'* are designed to carry a spindle *d* upon which is mounted a wheel *b*, having a peripheral covering *c* of rubber or the like. The arm member *k* and the extension portion *i* are designed to be coupled together by alining slot *n* of the latter with

the aperture σ in the former, and passing a screw threaded stud q having a head p , through the slotted aperture and providing a nut r for the stud, whereby the two portions k and i may be held in rigid relation to position the periphery of the wheel b to tangentially engage the top card of the pack s , in the receptacle a , in the most effective manner for advancing the same. This adjustment of the arm formed by members k and i , enables the device to be adjusted for use with packs of cards of different sizes. The wheel b carries laterally thereof, a lug t to which is secured a tension spring u , having the other end operatively connected to arm portion i , as by hook w , a flexible member v , such as a chain, being also connected to the lug t and trained about bearing h' with its free end connected to a second flexible member x , such as a wire, which passes through the closed end of the receptacle a where it is provided with a ring y to facilitate manipulation of the device. I may also provide a finger f , to operate substantially as disclosed in Figs. 1, 2 and 3.

The operation of the device is as follows: When shuffling the cards, a portion of the cut pack is placed in the receptacle, which is held with its upper end uppermost. The receptacle is vibrated to loosen the cards and the remainder of the pack is placed with ends against the upper ends of the portion in the receptacle, until they are dislodged and by gravity fall between the cards in the receptacle. By repeating this action, four or five times, the cards are thoroughly shuffled. The cards are dealt by the manipulator grasping the receptacle a in one hand and by alternately directing it to the place in front of the players, advancing a card or more as may be desired at each place, by drawing on cord x by the aid of the ring y . This action of drawing on cord x rotates the wheel b forwardly, advancing the top card in the device, as disclosed in Figs. 1, 2 and 3, and placing the spring u under tension, which returns the wheel b to a normal position when the flexible member is operated to so permit.

I claim:

1. A device for shuffling and distributing cards comprising in combination, a receptacle for the cards, having an open end and adapted to be grasped by the operator and manually directed with the said open end toward the place of disposition of the cards, and means carried by said receptacle for successively advancing the cards in the receptacle from the said open end thereof.
2. A device for shuffling and distributing cards comprising in combination, a receptacle for the cards having an open end adapted to be grasped by the operator and directed with the said open end toward the place of distribution of the cards, an oscil-

latable wheel, and means for positioning said wheel to tangentially engage the top card in said receptacle, substantially as and for the purpose set forth.

3. A device for shuffling and distributing cards comprising in combination, a receptacle for the cards, an oscillatable wheel, means for positioning said wheel to tangentially engage the top card in said receptacle, and means for limiting oscillation of said wheel.

4. A device for shuffling and distributing cards comprising in combination, a receptacle for the cards, an oscillatable wheel, an arm for positioning said wheel to tangentially engage the top card in said receptacle, and a finger oscillatable with said wheel and adapted to engage the margins of the cards adjacent the open end of said receptacle upon movement of the wheel in one direction, and to engage said arm upon movement of said wheel in the other direction, to limit oscillation thereof, substantially as and for the purpose set forth.

5. A device for shuffling and distributing cards comprising in combination, a receptacle for the cards having an open end, an arm portion pivoted to said receptacle adjacent the closed end, an extension for said arm, means for retaining said extension in an adjusted position with respect to said arm portion, a wheel carried by said extension and adapted to tangentially engage the top card in said receptacle, and means for oscillating said wheel, substantially as and for the purpose set forth.

6. A device for shuffling and distributing cards comprising in combination, a receptacle for the cards having an open end, an arm portion pivoted to said receptacle, an extension for said arm, means for retaining said extension in an adjusted position with respect to said arm portion, a wheel carried by said extension and adapted to tangentially engage the top card in said receptacle, means for oscillating said wheel, and means for limiting oscillation of said wheel.

7. A device for shuffling and distributing cards comprising in combination, a receptacle for the cards, an arm pivoted to said receptacle, an oscillatable wheel carried by said arm adapted to tangentially engage the top card in said receptacle, means operatively connected to said wheel for normally retaining it in a position for advancing the top card, and mechanism operatively connected to said wheel to actuate it against action of said last mentioned means to advance the card, substantially as and for the purpose set forth.

8. A device for shuffling and distributing cards comprising in combination, a receptacle for the cards, an arm pivoted to said receptacle, an oscillatable wheel carried by said arm adapted to tangentially engage the

top card in said receptacle, a spring operatively connected to said wheel for normally retaining it in position for advancing the top card, and a flexible member operatively connected to said wheel to actuate it against action of said spring to advance the card, substantially as and for the purpose set forth.

In testimony whereof, I have hereunto set my hand in presence of witnesses.

HORACE HURM.

Witnesses:

H. C. COXE,
CHARLES FRINFROCK,
MAURICE SHIRE.