Aug. 18, 1953 W. E. SCHOULTZ 2,649,305

PLAYING CARD SHUFFLER

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Fig. 1.

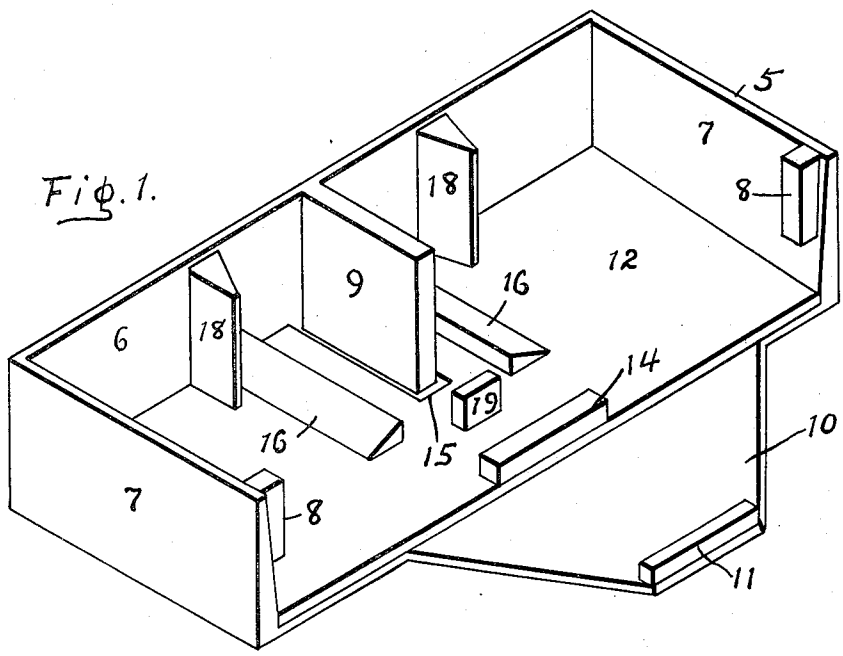
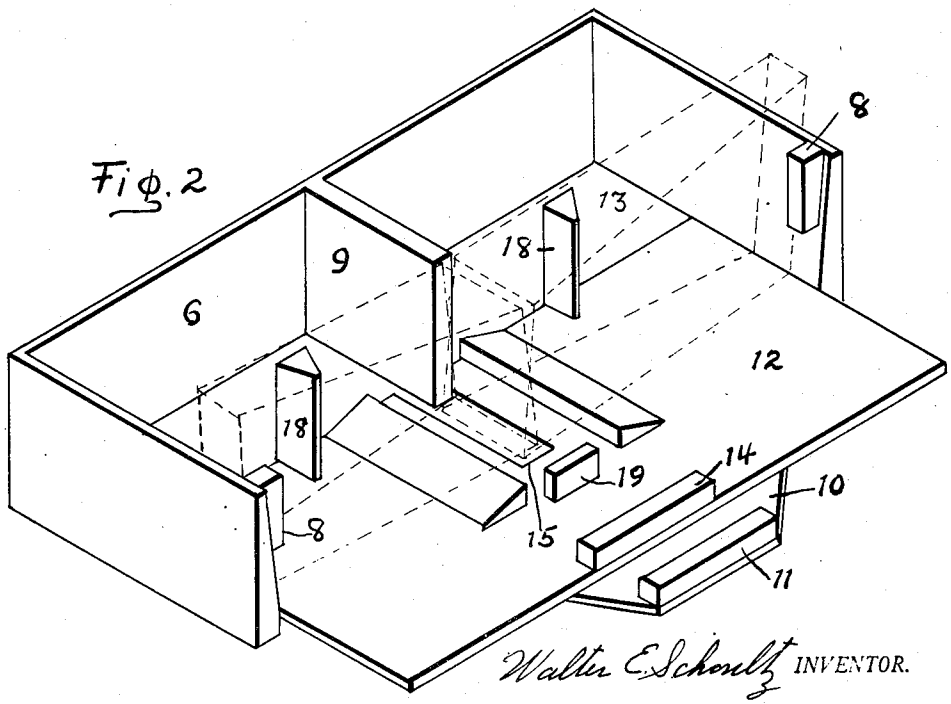


Fig. 2



Walter E. Schoultz INVENTOR.

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Fig. 3.

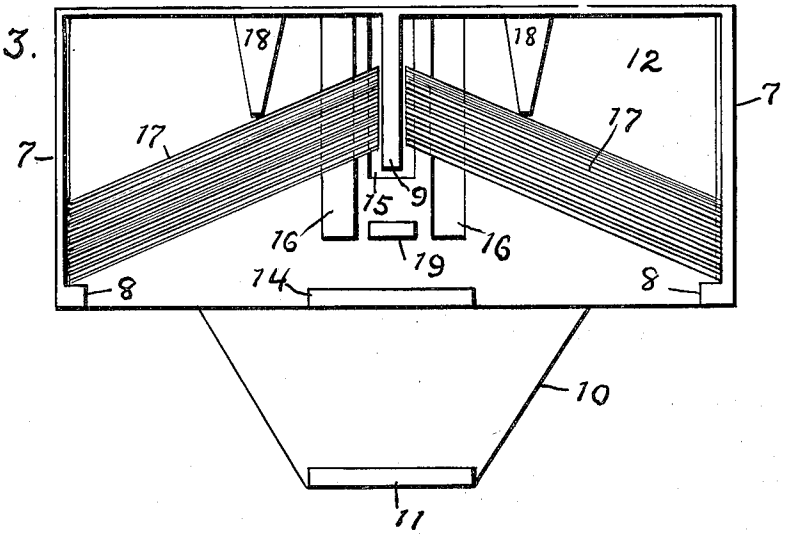
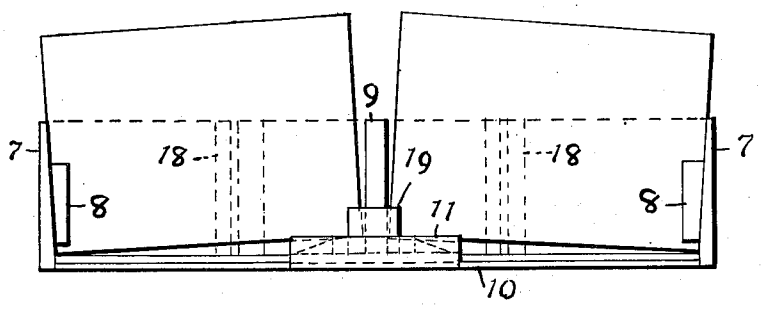


Fig. 4



Walter E. Schoultz INVENTOR.

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PLAYING CARD SHUFFLER

Walter E. Schoultz, Fort Wayne, Ind.

Application March 17, 1950, Serial No. 150,195

7 Claims. (Cl. 273—149)

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This invention relates to improvements in a playing card shuffler.

Ordinarily devices for shuffling playing cards are such that the cards are loosely arranged in a container to be shifted about by applying motion to the container resulting in mingling of the cards at random without certainty of equal intermingling of the cards being shuffled.

The purpose of the instant invention is to provide a device by which one pack of cards is disposed oppositely respecting another pack of cards and then sprung uniformly together so the cards of one pack initially overlap those in the other pack to permit them to be moved together in a completely shuffled condition.

Another object of the invention is to provide a device by which playing cards are accurately and quickly shuffled with but slight effort.

And a further object of the invention is to construct the device so that opposing stacks of cards are initially held divergently in opposite slanting positions and subsequently moved so the individual cards of the opposing packs overlap each other as the device is operated.

Other objects and advantages of the invention appear in the following description.

An illustrative embodiment of the invention is shown in the accompanying drawings, in which:

Fig. 1 is a perspective view of a structure in which the invention is incorporated as it appears in readiness for use;

Fig. 2 is a similar view as the device appears after completion of the card shuffling operation, there also being included, in dotted lines, opposing stacks of cards disposed therein in the positions assumed during the shuffling operation;

Fig. 3 is a top plan view of the appliance including opposing packs of cards arranged in positions preparatory to the shuffling operation; and

Fig. 4 is a front elevational view projected from Fig. 3.

The illustrative embodiment of the invention consists of a case 5, open at its top and front, having an upstanding back 6, and end walls 7 provided adjacent their forward ends with inwardly extending stops 8 respectively.

A partition 9 extends forwardly from the back 6 midway between its ends, the forward end of the partition terminating at a point spaced from the open front of the case, and the case has a shelf 10 that extends forwardly beyond the open front of the case, the outer end of the shelf being provided with an anchor strip 11.

The inner walls of the ends 7 of the case have slight upward and outward slant for the purpose hereinafter referred to.

Within the case 5 is arranged a slide 12 that overlies the bottom 13 of the case, which has movement out through the open front of the case over the shelf 10 thereof, and is provided at its forward end with an upstanding cleat 14 by which the slide is manipulated to and fro.

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The rear portion of the slide 12 has made therein a slot 15 arranged astride the partition 9 on the case and on said slide are ridges 16 that extend parallel with and are spaced from the slot 15. The ridges are disposed oppositely with respect to the slot and slant upwardly toward each other so that card packs 17 when placed in the case upon the slide rest in upward slanting positions against the partition.

When the card packs are positioned as shown in Figs. 2 and 3, the outer ends of the card packs rest against the slanting inner walls of the ends 7 of the case and their inner ends bear against the partition 9, said card packs being relatively divergent inwardly, with their outer ends bearing against the inwardly extending stops 8.

Upon the rear marginal portion of the slide 12 are secured vertically extending push-posts 18 spaced outwardly from the ridges 16 that contact respectively with the backs of the card packs 17 when the slide is moved forwardly and cause slippage of the inner ends of the card packs past the partition 9 uniformly so the individual cards of the two packs overlap each other successively as their inner ends leave the partition.

Upon the slide 12, ahead and in alinement with the slot 15 is an upstanding stop 19 by which is limited movement of the cards as they are flipped from contact with the partition 9 during the forward advance of the slide, thus preventing disarrangement of the cards. By this means the overlapping cards, upon completion of the forward movement of the slide, are prevented from becoming scattered.

In use, the slide is moved to its inwardmost position in the case, as in Fig. 1, after which the card packs 17 are positioned, as shown in Fig. 3, with their backs against the push-posts respectively, their inner ends bearing against the partition, and with their outer ends bearing against the slanting inner walls of the ends 7 of the case and against the inwardly extending stops 8. The slide 12 is then moved outwardly by manipulating the cleat 14 accordingly, thus causing the card packs to be sprung outwardly past the partition 9, during which operation the cards in the two packs become closely intermingled, after which they are readily shoved by the operator into a single pack accurately shuffled.

By use of this invention thorough shuffling of the cards without requirement of more than ordinary skill is accomplished with dispatch.

Variations from the particular construction above disclosed may be resorted to by the exercise of skill in the art, without departure from the spirit or scope of the invention.

What I claim is:

1. A card shuffler consisting of a case, the top and front of which are open, said case having an upstanding back and end walls, the inner faces of said end walls having upward and outward slant, and the forward ends of said end walls having inwardly extending stops, a parti-

tion in said case extending from said back partway toward the open front, a shelf extending forwardly from the bottom of the case provided with an anchor strip, a slide overlying the bottom of the case having outward movement and provided with a cleat at its forward edge, said slide having a slot extending astride said partition and provided with parallel ridges adjacent the sides of said slot that slant upwardly toward each other, upstanding posts on the rear marginal portion of said slide spaced outwardly from said ridges adapted to have engagement with corresponding card packs when said packs are positioned obliquely in opposite positions in the case between the end walls and said partition and against said inwardly extending stops, and an upstanding stop on said slide ahead of and alined with said slot by which to limit movement of the card packs as the cards of said packs are flipped from the partition during outward movement of said slide.

2. A card shuffler consisting of a case having an open top and front and provided with back and end walls, a stationary vertical partition located in the midportion of the case, inwardly extending stops on the end walls adjacent the open front of the case, and a movable slide in said case provided with two upstanding push-posts arranged on the rear portion thereof so as to be positionable on opposite sides of said partition, and an upstanding stop on said slide alined with said partition, ridges on said slide located respectively between said partition and the corresponding push-posts, the parts being arranged so that when card packs are placed in opposite positions in vertical divergent planes on said slide between the end walls and said partition, and the slide is moved outwardly, the packs are moved accordingly by action of said push-posts so the individual cards in said packs are flipped from contact with said partition into overlapping relation with each other, the stops on the end walls and the slide being adapted to prevent scattering of the cards.

3. A card shuffler consisting of a case having a back and ends, the inner walls of said ends having upward and outward slant, inwardly extending stops on said ends adjacent the front of the case, a vertical partition extending forwardly from said back located in the midportion of said case, a movable slide in said case, push-posts on the rear portion of said slide extending upwardly therefrom, and an upwardly extending stop on said slide alined with said partition, said push-posts being positioned on said slide with respect to said partition in such a manner as to engage card packs placed oppositely in vertically divergent planes between said ends and the partition to cause the individual cards in said card packs to become flipped from said partition into overlapping relation with each other, and said stops on said ends and slide being adapted to prevent scattering of the cards.

4. A card shuffler consisting of a case provided with an upstanding back and ends, a vertical partition disposed in the midportion of said case, an inwardly extending stop on each of said ends adjacent the front portion thereof, a movable slide in said case, upstanding push-posts on the rear portion of said slide located oppositely with respect to said partition, an upstanding stop on said slide alined with said partition, and forwardly extending ridges on said slide adjacent the opposite sides of said partition adapted to support card packs in divergent planes placed on said ridges in said case between said partition and ends, said push-posts, when the slide is moved forwardly in said case, being adapted to engage said card packs and cause the individual cards in said packs to become flipped from said partition into overlapping relation with each other, and the stops on said ends and slide being adapted to engage and prevent scattering of the overlapping cards.

5. A card shuffler consisting of a case having a forwardly extending vertical partition supported in its midportion and provided with upstanding ends the inner faces of which slant upwardly and outwardly, and a slide in said case movable forwardly therein and provided with upstanding push-posts on its rear portion disposed respectively opposite the sides of said partition, each of said ends having at its forward portion an inwardly extending stop and said slide having an upwardly extending stop alined with said partition, said push-posts and the stops on said ends and slide being arranged to have engagement with card packs placed in said case on said slide between said ends and the partition as the slide is moved forwardly and cause the individual cards of said packs to be flipped from said partition into overlapping relation with each other and prevent scattering of said cards.

6. A card shuffler consisting of a case having an open top and front and provided with back and end walls, a stationary vertical partition located in the midportion of the case, inwardly extending stops on the end walls adjacent the open front of the case, and a movable slide in said case provided with two upstanding push-posts arranged on the rear portion thereof so as to be positionable on opposite sides of said partition, and an upstanding stop on said slide alined with said partition, the parts being arranged so that when the card packs are placed in opposite positions in vertical divergent planes on said slide between the end walls and said partition, and the slide is moved outwardly, the packs are moved accordingly by action of said push-posts so the individual cards in said packs are flipped from contact with said partition into overlapping relation with each other, the stops on the end walls and the slide being adapted to prevent scattering of the overlapping cards.

7. A card shuffler consisting of a support member having a forwardly extending vertical partition supported in its midportion and provided with abutments at its ends the inner faces of which slant upwardly and outwardly, and a slide movable forwardly on said member and provided with upstanding push-posts disposed respectively on opposite sides of said partition, each of said ends having at its forward portion an inwardly extending stop and said slide having an upwardly extending stop means cooperatively alined with said partition, said push-posts and the stops on said ends and slide being arranged to have engagement with card packs placed on said slide between said abutments and the partition as the slide is moved forwardly and cause the individual cards of said packs to be flipped from said partition into overlapping relation with each other and prevent scattering of said cards.

WALTER E. SCHOULTZ.

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