Aug. 7, 1934. J. GINSBERG 1,968,885

DICE THROWING APPARATUS

Filed Nov. 30, 1932

Fig. 1.

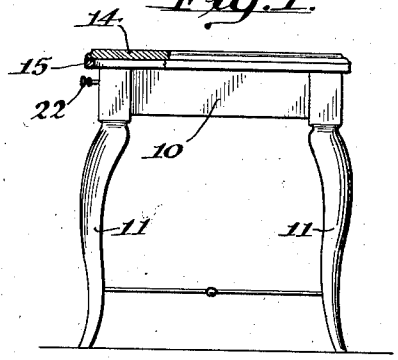


Fig. 2.

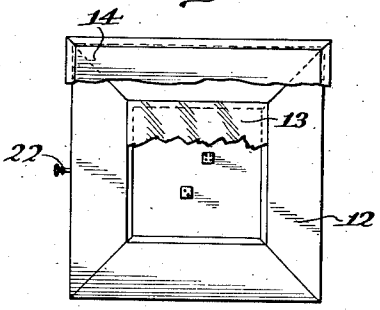


Fig. 3.

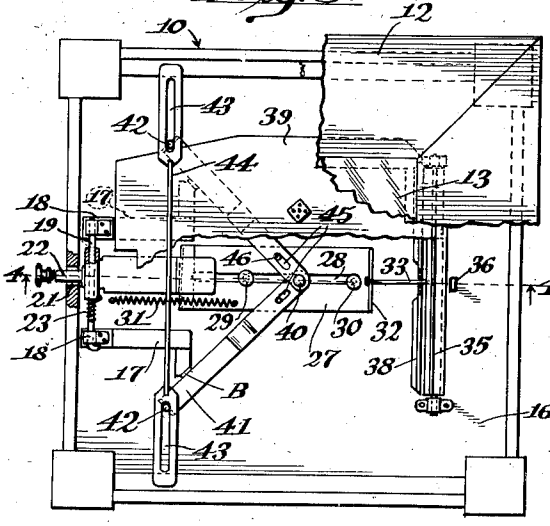


Fig. 6.

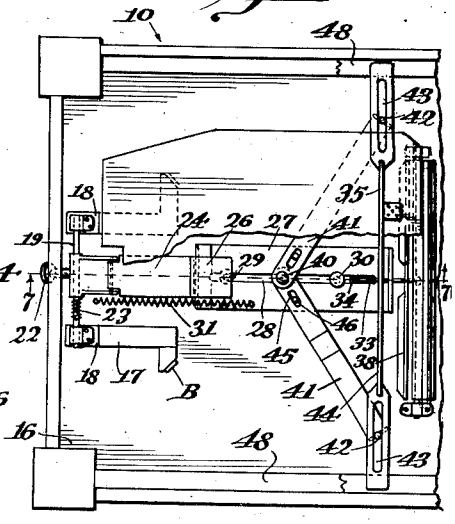


Fig. 4.

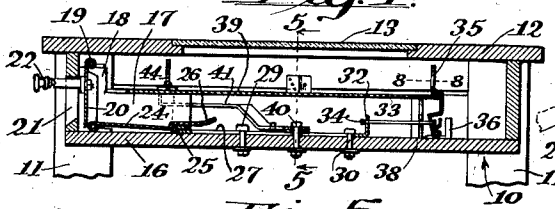


Fig. 7.

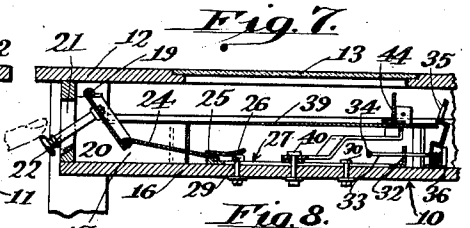


Fig. 5.

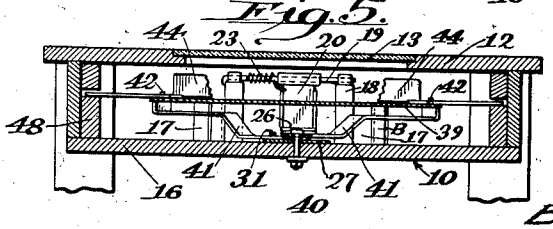
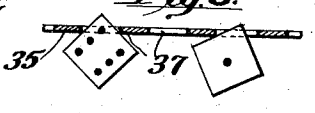


Fig. 8.



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UNITED STATES PATENT OFFICE

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DICE THROWING APPARATUS

Jacob Ginsberg, Los Angeles, Calif.

Application November 30, 1932, Serial No. 644,946

6 Claims. (Cl. 273—145)

My invention relates to a dice throwing apparatus and has for its principal object, the provision of relatively simple manually operable means for throwing or rolling dice over a flat surface and the latter, together with the dice operating mechanism being located in a suitable container, preferably a box or housing that forms the body of a table and the top of said body being provided with a window or section of transparent material through which the dice, at all times, may be readily observed.

A further object of my invention is, to provide a dice throwing apparatus having a plate or bar that is arranged to move over the surface on which the dice are thrown so as to position the dice immediately against a kick plate and which latter "kicks" the dice over the flat surface toward and against the plate or bar after the same has returned to its normal position at the opposite side of the flat surface from said kick plate.

With the foregoing and other objects in view, my invention consists in certain novel features of construction and arrangements of parts that will be hereinafter more fully described and claimed and illustrated in the accompanying drawing in which:

Fig. 1 is an elevational view of a table with the body portion thereof serving as a housing for the dice throwing mechanism.

Fig. 2 is a top plan view of the table and showing the removable top of said table partly broken away.

Fig. 3 is a top plan view of the body of the table, with the top thereof broken away in order to more clearly illustrate the dice throwing mechanism.

Fig. 4 is a vertical cross section taken on the line 4—4 of Fig. 3.

Fig. 5 is a cross section taken on the line 5—5 of Fig. 4.

Fig. 6 is a plan view similar to Fig. 3 and showing the dice setting plate or bar moved into position immediately adjacent to the kick plate.

Fig. 7 is a cross section taken on the line 7—7 of Fig. 6.

Fig. 8 is an enlarged detail section taken on the line 8—8 of Fig. 4.

Referring by numerals to the accompanying drawing which illustrates a preferred embodiment of my invention, 10 designates a shallow box or housing that serves as a container for the dice throwing mechanism and where the housing serves as the body of a table, the same is supported by suitable legs 11.

The top of the housing is closed by a rectangular frame 12 and arranged in said frame is a panel 13 of glass or transparent material which serves as a window through which the dice my be readily observed.

The upper surface of the transparent panel 13 is preferably flush with the upper surface of frame 12 and in order to enable the table to be used for serving refreshments or as a card table, a removable top 14 is provided and arranged on the undersides of the edges of this top are rails 15 that fit over the edges of the frame 12.

The underside of the removable top 14 may be marked for the playing of games such as checkers, chess, backgammon and the like.

Secured to the bottom panel 16 of the box or container at one side thereof, are spaced blocks 17 having supports 18 for a transversely disposed rod 19 and journaled thereon is the upper end of a depending plate 20.

Projecting outwardly from said plate through a vertically disposed slot 21 in the adjacent side wall of the container, is a short handle 22.

A torsional spring 23 is secured to rod 19 and bears against the front face of plate 20 so as to normally hold same in a vertical position.

Hinged to the lower end of plate 20, is the rear end of a sliding plate 24 provided on its underside adjacent to its forward end with a shoulder 25 and the forward portion of said plate in front of said shoulder is curved upward as designated by 26.

Arranged for sliding movement on the bottom panel 16 in front of plate 24, is a plate 27 provided with a longitudinally disposed slot 28 and passing through said slot and seated in the bottom panel 16, are screws or bolts 29 and 30.

The forward sliding movement of plate 27 is yieldingly resisted by a retractile spring 31, one end of which is connected to said plate and the other end to the bottom panel 16.

The rear end of plate 27 normally occupies a position beneath the curved upper end 26 of plate 24, with the end of said plate 27 bearing against shoulder 25. The opposite or forward end of sliding plate 27 is provided with an upturned flange 32 and arranged for sliding movement therethrough, is a horizontally disposed rod 33 provided on both ends with heads 34.

The headed forward end of rod 33 is pivotally connected to the lower central portion of a vertically disposed kick plate 35 and which latter is suitably hinged at its ends to the bottom panel 16. This kick plate is hinged so that it tends to swing rearwardly away from the sliding

plate 27 by gravity and its rearward swinging movement is limited by a stop 36.

Formed through the upper portion of the kick plate 35 are openings 37.

Suitably supported upon blocks 17 and upon posts 38 that are located in front of the ends of kick plate 35, is a horizontally disposed table 39, upon which the dice are rolled and the forward edge of this table terminates immediately adjacent to the intermediate portion of kick plate 35.

Pivoted upon a pin or bolt 40 that passes through slot 28 and which is seated in the bottom panel 16, are the inner ends of a pair of swinging arms 41 and projecting upwardly from the outer ends of said arms are pins 42. These pins project through longitudinally disposed slots 43 that are formed in the end portions of a plate or rail 44 and which latter overlies the table 39.

Formed through the swinging arms 41, adjacent to the pivot 40, are short longitudinally disposed slots 45 and projecting upward from sliding plate 27, through these slots 45, are pins 46.

The dice to be thrown are placed on table 39 and in order to throw said dice, the player engages the outer end of handle 22 and presses same downward, thereby swinging the lower portion of plate 20 forwardly and correspondingly moving sliding plate 24.

The shoulder 25 on plate 24 engages the rear end of sliding plate 27 and moves the latter forwardly against the resistance offered by retractile spring 31 and the forward movement of plate 27 is guided by the screws or bolts 29 and 30 that pass through slot 28.

The pin and slot connections between sliding plate 27 and arms 41 cause the outer ends of said arms to swing forward, thereby carrying plate or bar 45 forwardly over table 39 and the dice positioned on said table will be moved forward into position against the upper portion of the kick plate 35.

The dice when moved against kick plate will lie flat against the face thereof or the corners of said dice may enter the openings 37 in the kick plate as illustrated in Fig. 8.

As the plate 44 reaches its rearward limit of movement or a position immediately adjacent and parallel with the upper portion of the kick plate, the curved forward end of plate 24 will engage and ride upwardly over the head of screw or bolt 29 so that shoulder 25 or plate 24 is disengaged from the rear end of sliding plate 27.

Retractile spring 31 will now act to instantly return sliding plate 27 to its normal rearward position and as such action takes place, the arms 41 will be swung rearwardly so as to move plate or bar 44 to its normal position as illustrated in Fig. 3.

As plate 27 was moved forward as just described, the flange 32 on the forward end of said plate slides rearwardly upon rod 33 away from the head 34 on the rear end thereof and when plate 27 returns to its normal position under the influence of spring 31 as just described, the flange 32 will strike against the head 34 on the rear end of rod 33, thereby imparting a quick swinging movement to kick plate 34 and as a result of such movement the dice positioned against said kick plate will be projected with a quick movement across the surface of table 39 and said dice will strike against plate or bar 44 and then rebound and come to rest upon the surface of the table between plate 44 and the kick plate.

After depression of the handle 22, the same is released and torsional spring 23 returns plate 20 to its normal position and the apparatus is set for subsequent manipulation.

In order to cushion the arms 41 as the same return to their normal positions, the forward portions of the blocks 17 may be provided with small blocks or buttons B of rubber or other cushioning material.

In order to support the plate or rail 44 in position just above the surface of the table 39, the ends of said plate or rail rest upon ledges 48 that are secured to the inner faces of the side walls of the container 10.

Thus it will be seen that I have provided a dice throwing apparatus that is relatively simple in construction, inexpensive of manufacture and very effective in performing the functions for which it is intended.

In some instances the housing or box that contains the dice throwing mechanism may be constructed separately from the table and used on counters, show cases, or other suitable supports.

It will be understood that minor changes in the size, form and construction of the various parts of my improved dice throwing apparatus may be made and substituted for those herein shown and described without departing from the spirit of the invention, the scope of which is set forth in the appended claims.

I claim as my invention:

1. In a dice throwing apparatus, a table, a swinging kick plate mounted adjacent to one edge of said table, a portion of which kick plate projects above the surface of said table, a dice moving bar arranged for movement over the table toward and away from said kick plate, manually operable spring held means for moving said bar toward said kick plate and means including a perforated flange on said manually operable spring held means and a headed pin carried by said kick plate and extending through said perforated flange whereby said kick plate is swung toward the adjacent end of the table as said dice moving bar approaches its limit of movement away from said kick plate.

2. In a dice throwing apparatus, a table, a kick plate mounted for swinging movement adjacent to one end of said table, which kick plate projects above the surface of said table, a spring held plate mounted for sliding movement adjacent to said kick plate, a pair of pivotally mounted swingings arms having pin and slot connections with said sliding plate and a dice moving bar having pin and slot connections with the outer ends of said swinging arms, which bar is arranged for movement over said table toward and away from said kick plate.

3. In a dice throwing apparatus, a table, a kick plate mounted for swinging movement adjacent to one end of said table, which kick plate projects above the surface of said table, a spring held plate mounted for sliding movement adjacent to said kick plate, a pair of pivotally mounted swinging arms having pin and slot connections with said sliding plate, a disc moving bar having pin and slot connections with the outer ends of said swinging arms, which bar is arranged for movement over said table toward and away from said kick plate and manually operable spring held means for moving said sliding plate toward said kick plate.

4. In a dice throwing apparatus, a table, a

kick plate mounted for swinging movement adjacent to one end of said table, which kick plate projects above the surface of said table, a spring held plate mounted for sliding movement adjacent to said kick plate, a pair of pivotally mounted swinging arms having pin and slot connections with said sliding plate, a disc moving bar having pin and slot connections with the outer ends of said swinging arms, which bar is arranged for movement over said table toward and away from said kick plate, manually operable spring held means for moving said sliding plate toward said kick plate and means whereby a part of the manually operable means is automatically released to permit said sliding plate to return to its normal position.

5. In a dice throwing apparatus, a table, a kick plate mounted for swinging movement adjacent to one edge of said table, manually operable spring held means for moving dice over said table toward said kick plate the upper portion of said kick plate being provided with openings for the reception of the corners of the dice said manually operable spring held means including a sliding plate, a perforated flange projecting upwardly from the rear portion of said plate, a headed rod pivotally connected to said kick plate and extending through said perforated flange, the length of which rod is such that the head thereon is engaged by said perforated flange as the sliding plate approaches its limit of movement away from the kick plate.

6. In a dice throwing apparatus, a table, a kick plate mounted for swinging movement adjacent to one edge of said table, manually operable spring held means for moving dice over said table toward said kick plate, the upper portion of said kick plate being provided with openings for the reception of the corners of the dice said manually operable spring held means including a sliding plate, a perforated flange on the rear end of said plate, a headed rod pivotally connected to said kick plate, which rod passes through said perforated flange, the length of which rod is such that the head thereon is engaged by said flange as the sliding plate approaches its limit of movement away from the kick plate and means for automatically releasing a part of said manually operable spring held means to permit the same and the dice moving bar to return to their normal positions.

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