

June 9, 1936.

S. SALOMON

2,043,677

GAME

Filed April 18, 1934

2 Sheets-Sheet 1

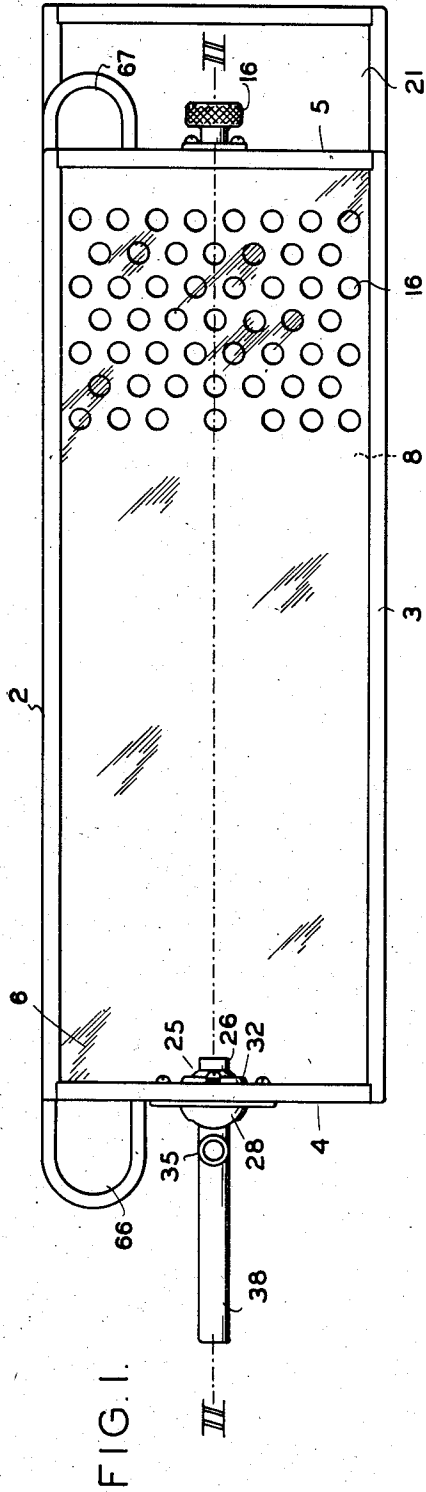


FIG. 2.

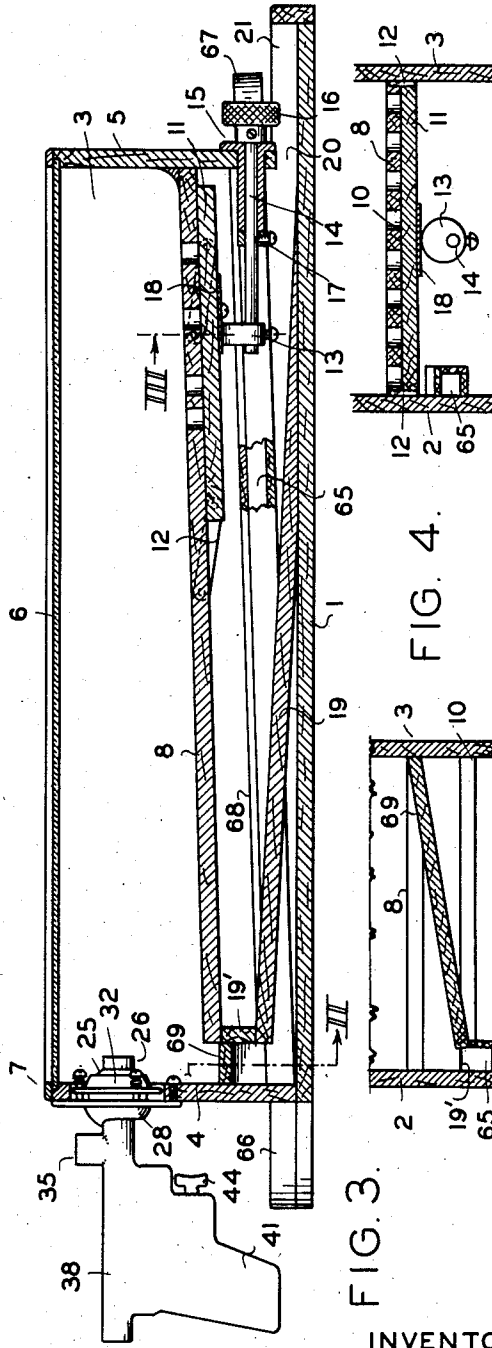


FIG. 3.

FIG. 4.

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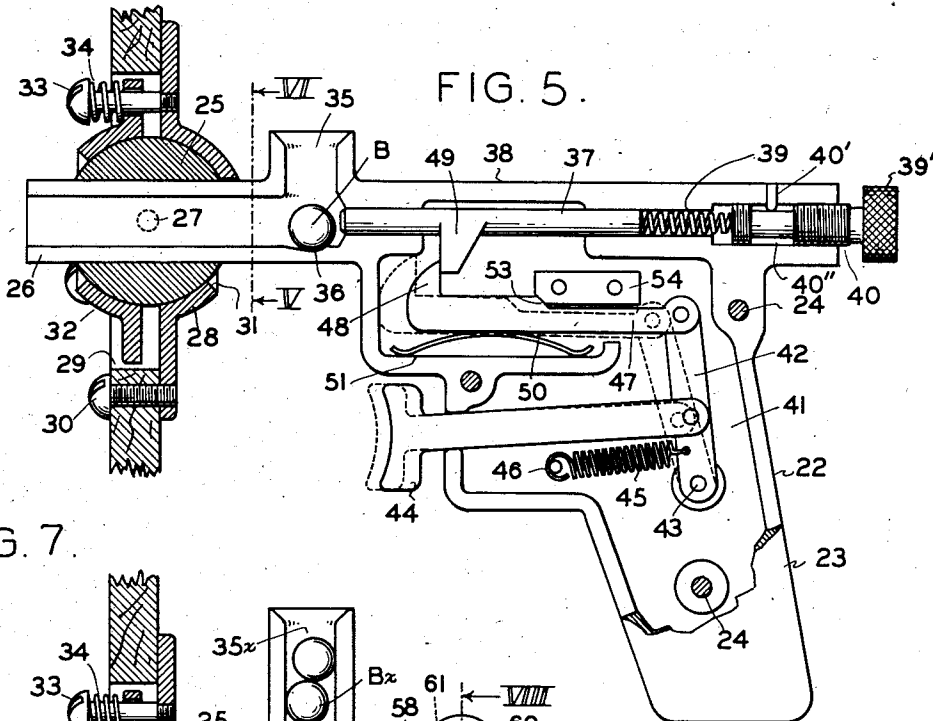


FIG. 7.

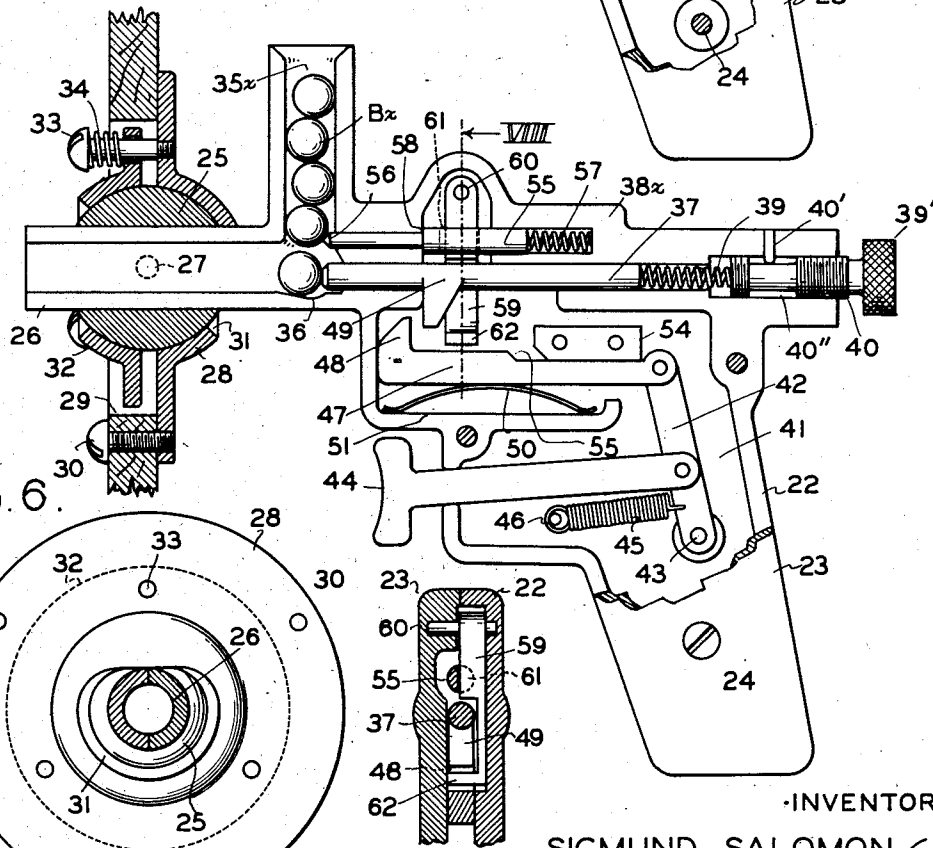


FIG. 6.

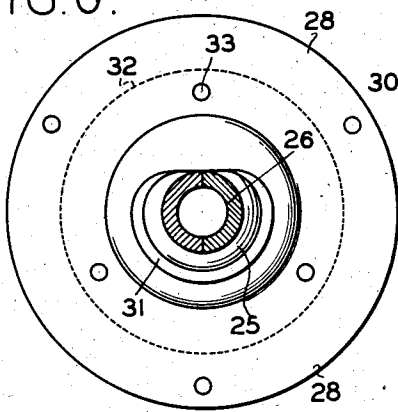


FIG. 8.

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2,043,677

GAME

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2 Claims. (Cl. 273—129)

This invention relates to improvements in games and more particularly to games of skill.

The principal object of the invention is to provide a simple and inexpensive piston shooting game affording an opportunity for a high degree of skill in its use.

Another object is to render the game suitable for use in merchandizing as in cigar stores.

Another object is to flexibly mount the pistol so as to enable the aiming thereof.

Another object is to render the operative parts of the game inexpensive and durable of construction and reliable in operation.

Other objects and advantages appear as this description progresses.

In this specification and the accompanying drawings, the invention is disclosed in its preferred form. It is, however, to be understood that it is not limited to this form because it may be embodied in other forms within the purview of the claims following the description.

In the two sheets of drawings:

Fig. 1 is a plan view of a game constructed in accordance with this invention.

Fig. 2 is a longitudinal vertical section of the same taken along the line II—II in Fig. 1.

Fig. 3 is a fragmentary transverse vertical section taken along the line III—III in Fig. 2.

Fig. 4 is a similar view taken along the line IV—IV in Fig. 2 and showing the means for dumping the balls at the end of the game.

Fig. 5 is an enlarged vertical section of the pistol with the parts in firing position.

Fig. 6 is a transverse vertical section taken along the line V—VI in Fig. 5 and showing the mounting of the pistol.

Fig. 7 is a vertical section of a modified form of pistol having a magazine for receiving a plurality of balls for individual firing.

Fig. 8 is a fragmentary detail view in transverse vertical section taken along the line VIII in Fig. 7 and showing the trip for the detent for the balls in the magazine.

In detail, the construction illustrated in the drawings, referring more particularly to Figs. 1 and 2 comprises the enclosing casing, preferably constructed of wood and having the base 1 with the sides 2, 3, the front and back 4, 5 nailed or otherwise fixed together. The glass pane 6 closes the top of the casing and is retained in position by the beading strip 7.

The table 8 is spaced from the base 1 and is fixed to the sides 2, 3 and the back 5 and sloped toward the front 4. It is visible through the pane 6. A multiplicity of pockets 10 are pro-

vided through the table 8 near the rear thereof. These pockets are individually labeled with the designations of a deck of playing cards or other numerical value.

The gate 11 is movably attached to the underside of the table 8 by the pivoted links 12 and is adapted to close the bottoms of the pockets 10. The cam 13 is fixed on the shaft 14 which extends through the back 5 of the casing in the journal 15. The outer end of the shaft 14 is provided with the knurled operating knob 16 for the manual rotation of the cam 13. The boss 17 confines shaft 14 against longitudinal movement. The gate 11 has the wearing plate 18 therebeneath which is adapted to be impinged upon by the cam 13 to raise or lower the gate.

The runway 19 is mounted on the base 1 beneath the table 8 and is inclined toward the rear of the casing. The baffle 19' is provided at the upper end of the runway 19. The back 5 is spaced at 20 from the runway 19 to allow the passage of playing balls therebeneath. The runway terminates in the box 21 which is accessible to the salesman behind the counter.

The inclined chute 65 extends from rear to front of the casing and discharges into the receptacle 66 accessible to the player. The hopper 67 is provided at the entrance of the chute 65 to feed the balls therinto. The chute 65 is closed by the cover 68 in proximity to the gate 11.

The runway 69 is mounted between the casing front 4 and the end of the sloping table 8. The runway is inclined toward the chute 65 which is open at the top at this point.

The pistol has a two piece casing consisting of the members 22 and 23, preferably diecast and joined together by the screws 24. The mounting ball 25 is telescoped over the barrel 26 of the pistol and secured thereto by the setscrew 27. The hemispherical socket 28 is fixed by the screws 30 to the front 4 of the casing in juxtaposition to the hole 29 therein. The socket has the hole 31 therethrough to pass the barrel 26 and is adapted to receive the side of the mounting ball 25.

The hemispherical cover 32 slidably engages the opposite side of the ball 25 and is secured to the socket 28 by the screws 33. The ball 25 is movable between the socket 28 and the cover 32 and enables the aiming of the pistol in the direction desired. The yielding springs 34 interposed between the cover 32 and the heads of the screws 33 cushion the mounting of the ball 25. This enables free movement of the ball 25

within its mounting in spite of inequalities in its shape.

The barrel 26 has the open throat 35 extending upwardly therefrom and adapted to receive the steel playing balls B singly. The depression 36 is provided in the bore of the barrel to retain the ball B in position for firing. The upper portion of the hole 31 is restricted so that its margin engages the barrel 26 to confine the downward tilting thereof. This insures against the pistol being tilted downward to such an extent that the ball B rolls out of the depression 36.

The firing pin 37 is slidably mounted in the breech 38 of the pistol and projects therefrom in juxtaposition to the ball B. The spring 39 expands between the end of the firing pin 37 and the setscrew 40 and urges the firing pin into advanced position.

The setscrew 40 has the knurled head 39' which may be manually turned by the player to regulate the tension of the spring 39. The pin 40' abutting the reduced portion 40'' of the setscrew prevents accidental removal of the setscrew.

The hollow handle 41 of the pistol has the lever 42 pivoted therein at 43. The trigger 44 extends into the handle 41 and is pivoted intermediate the length of the lever 42. The spring 45 contracting between the lever 42 and the pin 46 urges the trigger 44 forward into inoperative position.

The drawbar 47 is pivoted to the top of the lever 42 and has sear 48 which is arranged to operatively engage the shoulder 49 depending from the firing pin 37. The flat spring 50 seated at 51 urges the sear upward into engagement with the shoulder 49. The drawbar 47 has the inclined cam surface 53 which is adapted to be deflected by the stationary block 54 to disengage the sear 48 from the shoulder 49.

In the form shown in Figs. 6 and 7, the mounting of the pistol and the firing mechanism are identical with the preferred embodiment and the similar parts thereof are indicated by like reference numerals. In the modification, the loading throat is extended upward to form the magazine 35x adapted to receive the plurality of steel balls Bx. The lowermost ball is discharged into the depression 36.

The detent 55 is slidable in the breech 38x and has the tapered end 56 which is arranged to engage under the series of balls in the magazine 35x to maintain the succeeding balls out of contact with the ball in firing position. The spring 57 expanding against the end of the detent 55 urges the detent forward into operative position. The shoulder 58 limits the movement of the detent under the tension of the spring 57.

The trip 59 is pivoted at 60 and extends downward through and operatively engages the shouldered recess 61 in the detent 55. The lower end of the trip has the lateral shoulder 62 which is arranged to be engaged by the sear 48 at the latter end of its movement.

The game is operated substantially as follows: The salesman or attendant places a predetermined number of steel balls in the hopper 67. These descend the chute 65 and discharge into the receptacle 66 within reach of the player. The balls are loaded singly in the throat 35 and come to rest in the depression 36. The player grasps the handle 41 and adjusts the ball 25 in its mounting 28, 32 to aim the pistol toward the hole 10 desired.

The trigger 44 is then pulled. This swings the

lever 42 rearwardly and pulls back the drawbar 47. The sear 48, urged upward by the spring 50 engages the shoulder 49 and retracts the firing pin 37 against the tension of the spring 39.

As the drawbar 47 approaches the end of its movement, the cam 53 impinges on the block 54 and deflects the drawbar downward. This disengages the sear 48 from the shoulder 49 and releases the firing pin. The spring 39 instantaneously snaps the firing pin 37 forward against the ball B resting in the depression.

The ball is thus forcibly projected from the barrel 26 and travels in the direction in which the pistol is aimed. When the ball descends onto the table 8, it will usually drop into one of the pockets 10 and is retained therein by the gate 11. Failing this, the ball rolls down the sloping table 8 and falls onto the runway 69. The ball then descends into the chute 65 and is delivered into the receptacle 66 for a free play.

The succeeding balls are similarly loaded in the throat 35 and shot from the pistol until they all occupy a pocket 10 in the table. The playing card designations of the pockets in which balls have been placed may constitute a hypothetical poker hand and the score computed accordingly.

At the end of the game, the knob 16 is manually turned by the attendant rotating the cam 13 beneath the gate 11. The gate, following the contour of the cam, descends by gravity and uncovers the bottoms of the pockets 10. The balls in the pockets 10 then roll therefrom down the gate 11 and fall onto the runway and travel down into the box 21. The balls may then be lifted therefrom and placed in the hopper 67 for another game.

In the modified form illustrated in Figs. 6 and 7, the several steel balls Bx are loaded in the magazine 35x before the play is begun. Manual pressure applied to the top of the stack in the magazine forces the lowermost ball past the yielding detent 55 into operative position in the depression 36.

The pistol is then aimed and the trigger 44 pulled operating the drawbar 47. The sear 48 retracts and releases the firing pin 37 thus discharging the operative ball Bx in the manner described above. The sear 48 at the end of its operative movement engages the lateral shoulder 62 of the trip 59. This swings the trip rearwardly retracting the detent 55 and allowing the succeeding ball in the magazine 35x to drop down into operative position in the depression 36.

When the trigger 44 is released, the sear 48 disengages from the trip 59. The spring 57 then advances the detent into operative position. The tapered end of the detent engaging the rounded surface of the second ball raises this ball above the level of the ball in the depression 36. The trigger may then be again pulled to discharge the succeeding ball and subsequently feeding another ball from the magazine 35x.

Having thus described this invention, what is claimed and desired to be secured by Letters Patent is:

1. In a game apparatus; a pistol comprising: a firing pin adapted to discharge balls from said pistol; resilient means for actuating said firing pin; a setscrew adapted to adjust the tension of said resilient means and having a portion reduced in diameter; a pin cooperating with said reduced portion to prevent removal of said setscrew; a lever in said pistol; a trigger pivoted on said lever; a drawbar connected to said lever and

having an inclined cam intermediate its length and a sear adapted to retract said firing pin; a stationary block arranged to cooperate with said cam to deflect said drawbar and disengage
5 said sear from said firing pin; and resilient means expanding against said drawbar and urging said sear into engagement with said firing pin.

2. In a game apparatus; a pistol comprising:
a firing pin adapted to discharge balls from said
10 pistol; resilient means for actuating said firing

pin; a drawbar having a sear adapted to retract said firing pin; means for deflecting said drawbar and disengaging said sear from said firing pin; a magazine adapted to receive a plurality of balls; a detent having a shouldered recess and
5 a tapered end extending into said magazine to retain said balls therein; and a trip engaging said recess and having a lateral shoulder adapted to be operatively engaged by said sear.

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