

June 2, 1942.

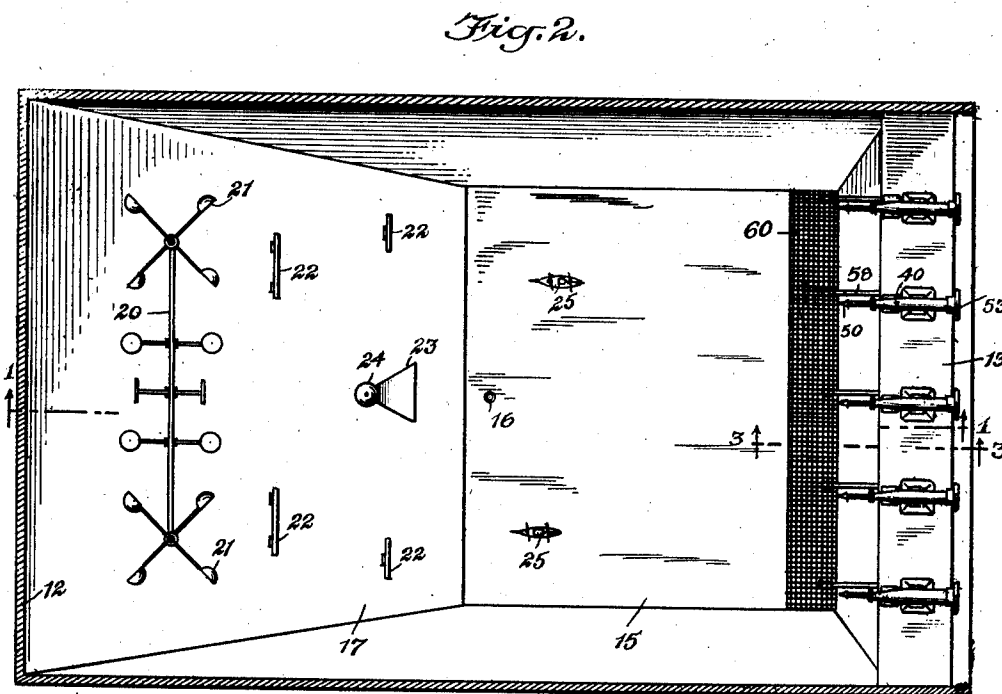
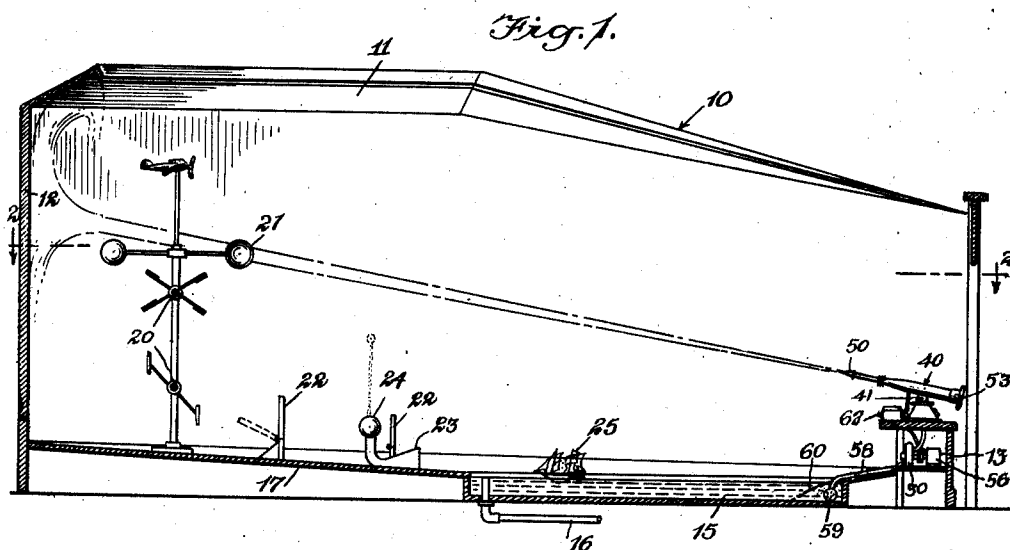
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2,285,292

DISPENSING DEVICE

Filed Nov. 5, 1940

3 Sheets-Sheet 1



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Fig. 3.

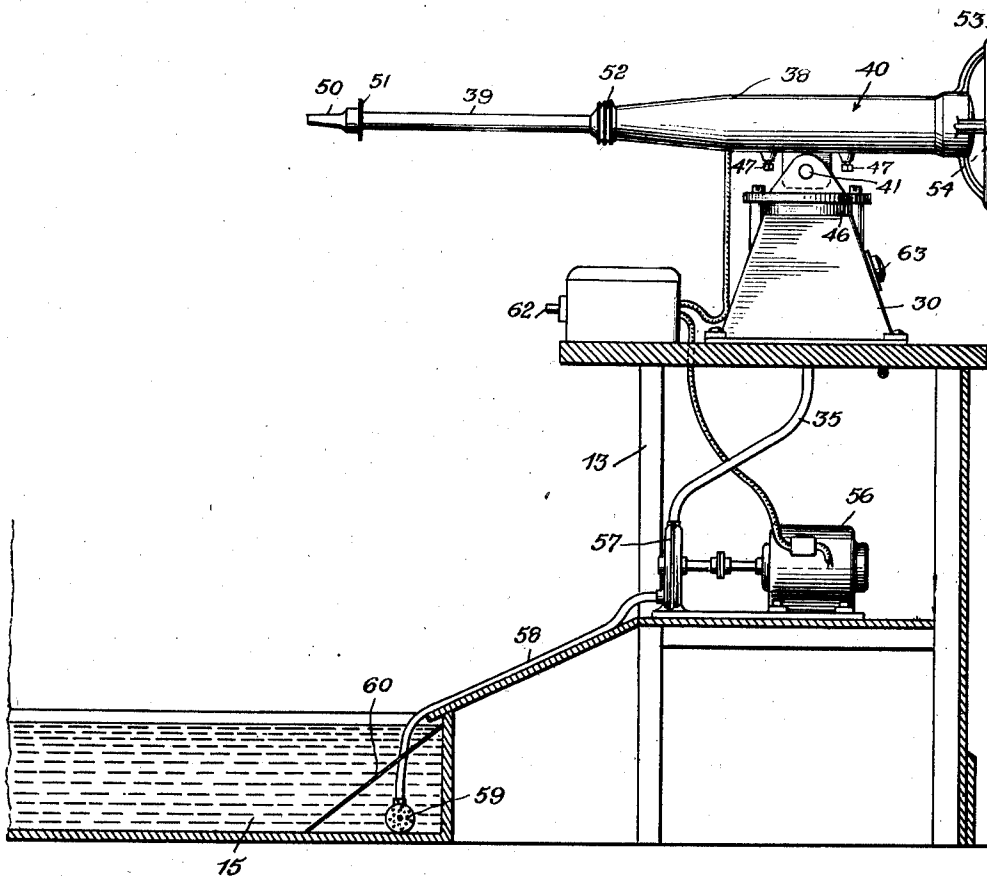
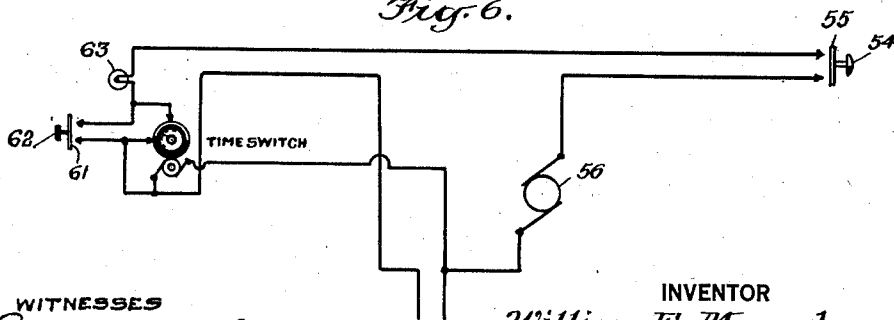


Fig. 6.



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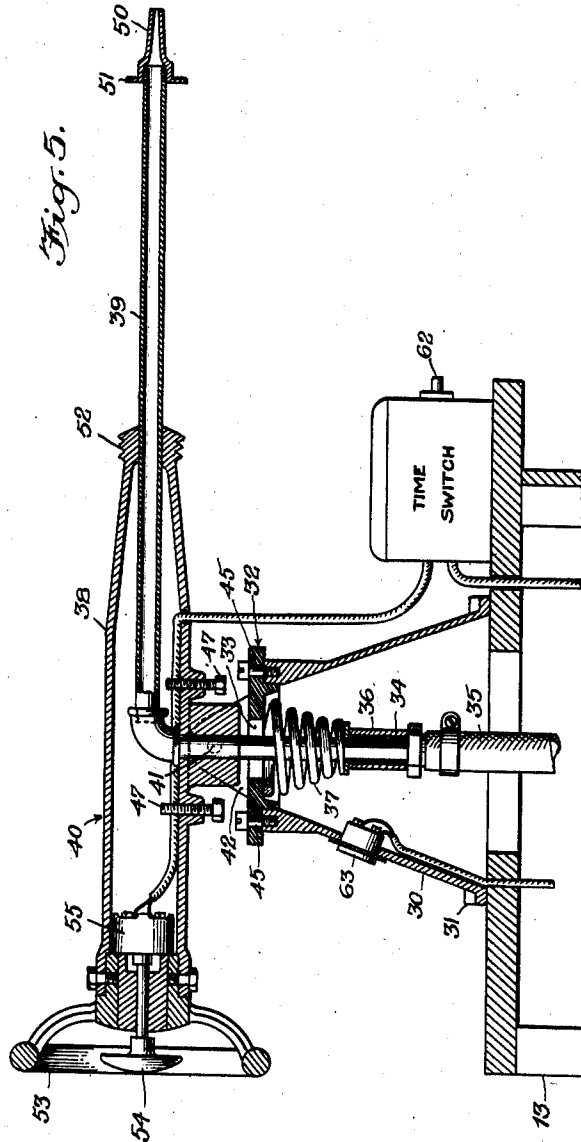
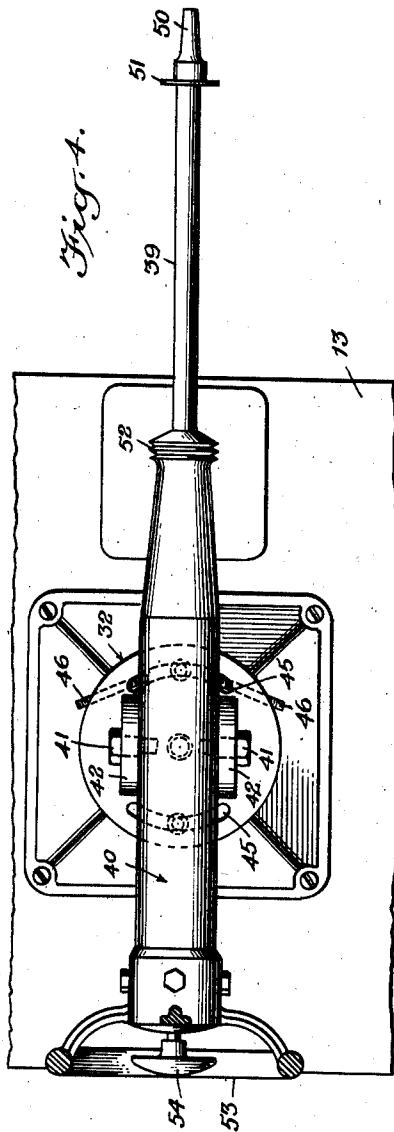
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3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE

2,285,292

DISPENSING DEVICE

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Application November 5, 1940, Serial No. 364,377

5 Claims. (Cl. 221—31.5)

This invention relates to amusement devices, and more particularly to an amusement device which operates in the nature of a machine gun but employs water instead of bullets.

An object of the invention is to provide a device of the character described for the purpose of amusement and also for the purpose of developing the sense of direction of the user.

A further object of the invention is to properly supply and time the use of the object so that it is adaptable for use in amusement centers and similar places.

Included in the invention is a gallery enclosing the gun, at one end of which the gun is mounted. The gun is freely mounted so that it may be raised or swung within certain limits. A series of guns are used in an amusement center and one operator may use his gun to intercept another's stream. Water is kept in the bottom of the gallery and is pumped by a motor connected with the gun through the gun. The trigger on the gun operates the pump so that when the player presses the trigger the pump is started and is stopped when the trigger is released. Targets of many kinds can be provided but it is believed that most satisfactory targets are those of the type that show animation when struck by a stream of water.

In addition to the foregoing, the invention includes a timing mechanism whereby the motor is controlled by a time switch which will shut off after the gun has been available for use for a limited time.

In the accompanying drawings—

Fig. 1 is a sectional side view of a gallery employing my invention;

Fig. 2 is a cross-sectional plan view taken on the line 2—2 of Fig. 1;

Fig. 3 is an enlarged view taken on the line 3—3 of Fig. 2, showing the gun;

Fig. 4 is a top plan view of the gun;

Fig. 5 is a cross-sectional view thereof;

Fig. 6 is a diagram of the circuit including the timing mechanism and trigger.

Referring more particularly to the drawings, I provide a gallery 10 having a suitable ceiling 11 and walls 12. At one end of the gallery is a counter 13. In front of the counter is a tank 15 which may be drained and filled by the pipe 16. Leading from the tank 15 is an inclined floor 17 to the back wall 12. It will be seen that water hitting the walls or ceiling will flow down the inclined floor 17 back into the tank 15.

Mounted on the floor 17 are a series of targets 20. These targets may be of any type that suits

the operator but, as previously stated, targets which show animation and move, such as the water mills 21 and the hinged targets 22, are most suitable. Another type of target is represented by the funnel 23 at the upper end of which a ball 24 may rest. The player may then shoot the stream into the funnel so that the ball will dance on the fountain caused thereby and then endeavor to hit the ball before it can fall again. Other targets, such as ships 25, may be placed at various positions around the gallery.

Mounted on the counter 13 is a base 30 which is affixed to the counter by means of bolts or screws 31. A turntable 32 tops the base and through the opening 33 extends a water pipe 34. The water pipe at its lower end is fastened to a hose 35 which extends through the counter 13. A sleeve 36 on the pipe 34 contacts a spring 37. The spring 37 abuts with its upper end the bottom of the turntable 32. The upper end of the pipe 34 goes into the housing 38 of the gun 40 and is joined there with the barrel 39 positioned in the housing 38. The housing 38 is pivoted at 41 to the flange 42 of the turntable 32. It will be seen that the gun may be rotated from right to left to the extent of the slots 45. Set screws are provided to limit the movement of the gun from left to right. Additional set screws 47 are provided to limit the elevation and depression of the gun, if desired.

At the end of the barrel a nozzle 50 is attached to provide a sharp stream. The nozzle 50 has a flange or collar 51 to prevent water from rolling back along the outside of the barrel when the gun is turned off. Similar flanges 52 are provided at the end of the housing.

A hand wheel 53 is provided at the back of the gun and a trigger button 54 operating a conventional switch 55. It will be appreciated that the pressing of the trigger button operates the switch 55 and closes the circuit.

A motor 56 is mounted under the counter 13 and operates a pump 57. The hose 35 runs from the pipe 34 to the pump 57, and an additional hose 58 runs to the tank 15. The end 59 of the hose 58 is provided with a screen to prevent the entry of foreign matter, and an additional screen 60 is also provided to prevent the clogging of the hose.

A conventional time switch is included in the circuit, as well as a starting switch 61 controlled by the button 62. In operation, at the pressing of the button 62 current becomes available to the motor for a predetermined period of time and the light 63 is turned on. The closing of the

switch 55 by means of the trigger 54 will close the circuit and start the motor and pump, thus supplying water for the gun. As soon as the trigger 54 is released the motor will be stopped but will continue again when the trigger is pressed, and the gun may be fired intermittently until the end of the predetermined interval, when the time switch will break the circuit until the button 62 is pressed again. By this construction the gun may be fired in "bursts" or short streams, as a machine gun. The gun may be swung on a vertical axis by reason of the turntable 32 and on a horizontal axis by reason of the pivots 41, in order to point the gun in different directions. The spring 37 restrains the movement of the gun on its horizontal axis and serves to always return the gun to a normal horizontally disposed position.

In operation at a paid gallery the attendant may collect the usual fee and then press the button 62. This will make the gun available for action for a predetermined interval, for instance, three minutes. The "gunner" may then operate the gun for that period of time by pressing the trigger 54. He may use a continual stream of water or a series of short streams by pressing and releasing the trigger. If the trigger is pressed and held pressed, the stream will be continuous. Each time the trigger is released the stream will stop. In this way the firing of a machine gun may be simulated and the "gunner" may fire at the various targets available or may attempt to deflect the stream of another "gunner's" gun.

It will be appreciated that while I have shown certain types of targets these are only suggestions and that many, many different types may be employed.

I claim:

1. For mounting a water gun, a base, a turntable mounted on said base, a housing pivoted on said turntable, a rigid water pipe member extending through said housing and through said

turntable, a flexible water feed member joined to said rigid pipe member, a sleeve on said pipe member above the junction, and spring means engaging said sleeve and said turntable for yieldingly positioning said gun.

2. For a water gun having a rigid water pipe extending therefrom, means for mounting said gun to allow its limited movement thereon, said means including a base, a turntable on said base, a pivotal mounting on said turntable, an opening through said turntable adapted to receive said pipe, a sleeve on said pipe, and a spring means engaging said turntable and said pipe to yieldingly retain the pivotal mounting in a position to point said gun horizontally.

3. For adjustably supporting a gun, a mounting comprising a turntable, means to limit the turning of the turntable, a pivotal element on said turntable, and resilient means engaged with said element to retain it in a position to point said gun horizontally and yieldable so that said element may pivot to point the gun in different directions about a horizontal axis.

4. For mounting a gun, a base, a turntable on said base whereby the gun turns about a vertical axis, a second part pivoted on the turntable whereby the gun may be tilted on a horizontal axis, and resilient means cooperating with the turntable and second part to restrain the same in their movements and adapted to return the second part in a position in which the gun will be normally pointed horizontal.

5. For mounting a water gun, a turntable supported to turn on a vertical axis, an assembly connected with the turntable for pivotal movement on a horizontal axis, said assembly including conduit means to supply water to the gun, and resilient means bearing on the turntable whereby to restrain the movement of the assembly and to return it to a position in which said gun will be normally pointed horizontal.

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