

March 8, 1927.

1,619,988

H. N. RIDGWAY

AMUSEMENT APPARATUS

Filed July 15, 1925

2 Sheets-Sheet 1

Fig. 1.

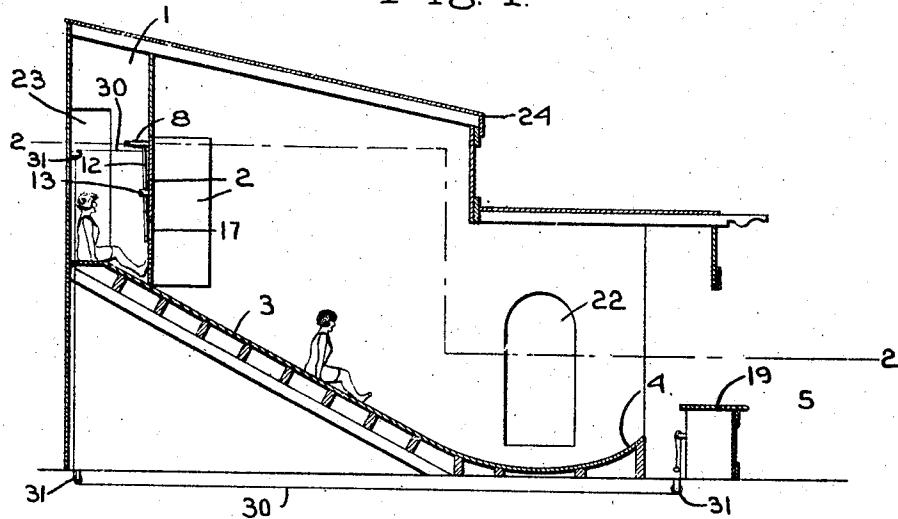
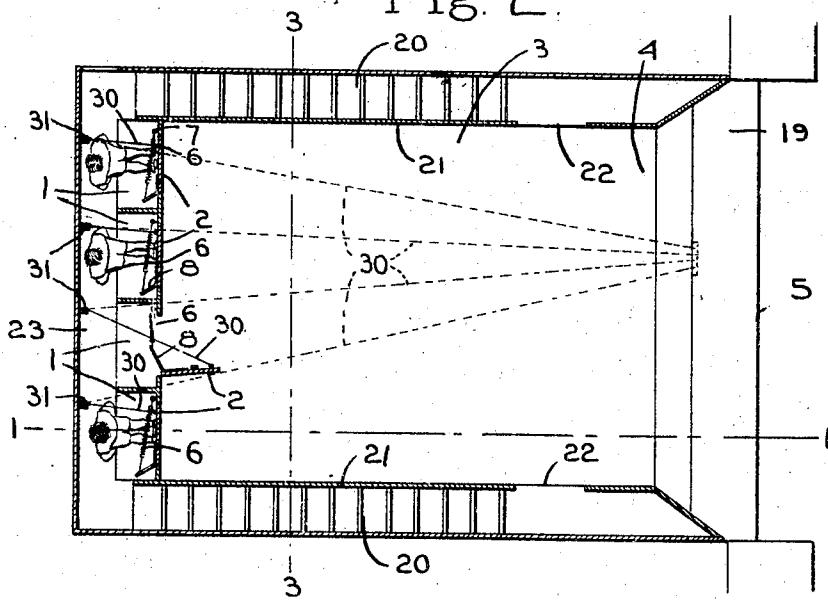


Fig. 2.



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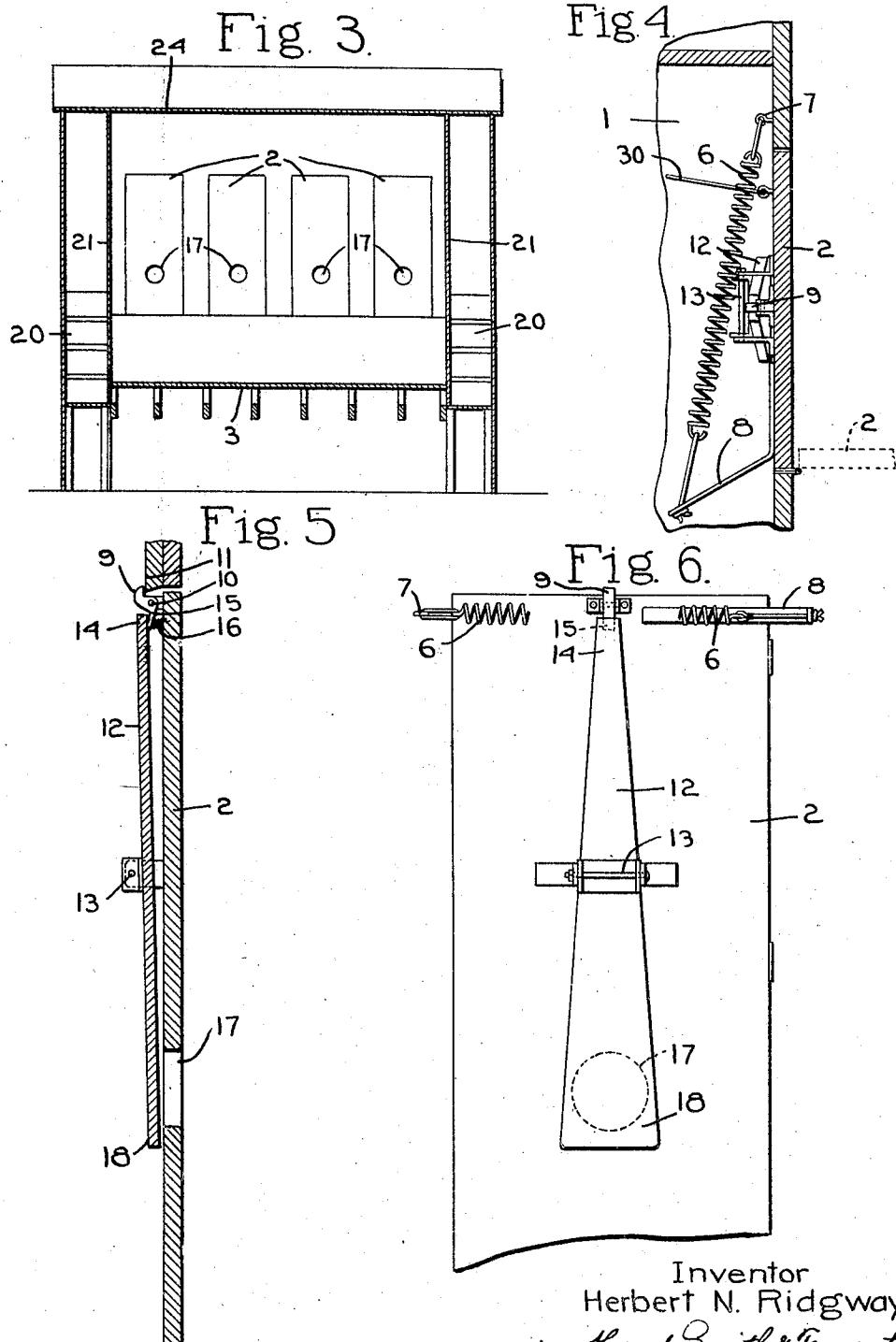
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE.

HERBERT N. RIDGWAY, OF WINTHROP, MASSACHUSETTS.

AMUSEMENT APPARATUS.

Application filed July 15, 1925. Serial No. 43,867.

This invention relates to an amusement apparatus and has for its object to provide a novel apparatus comprising one or more compartments each adapted to be occupied by a person or some object, and each having an exit opening, a door normally closing said opening, a chute extending downwardly from the door, and means to open the door so as to allow the occupant of the compartment, if the compartment is occupied by a person, or the contents of the compartments to slide down the chute.

A further object of the invention is to provide a device of this sort in which the door for each compartment is normally latched by a latch device which can be released by the impact of a thrown object. This form of the invention is specially adaptable for amusement resorts, in which case I prefer to arrange the doors and the latch-releasing mechanisms thereof so that each door will have a target which when hit by a thrown ball will release the latch. With this arrangement the patrons of the apparatus may by paying a required fee have a certain number of chances to throw balls at the targets on the doors and if any throw is accurate and the target is hit the corresponding door will be opened so that the occupant of the compartment may slide down the chute.

In order to give an understanding of my invention I have illustrated in the drawings a selected embodiment thereof which will now be described after which the novel features will be pointed out in the appended claims.

Fig. 1 is a vertical sectional view through an apparatus embodying my invention taken on substantially the line 1—1, Fig. 2;

Fig. 2 is a horizontal view taken on the line 2—2, Fig. 1;

Fig. 3 is a section on the line 3—3, Fig. 2;

Fig. 4 is an enlarged horizontal section through one of the doors showing the door-opening device;

Fig. 5 is a vertical section through one of the doors showing the latch and the latch-releasing means;

Fig. 6 is an inside view of one of the doors.

Referring to the drawings 1 indicates compartments, of which there may be one or any desired number, and each of which is large enough to accommodate a person. Each compartment is provided with a door 2 which is normally closed but is arranged to be

opened as will be presently described. Extending downwardly from the door of each compartment is a slide or chute 3 which terminates at its lower end in an upturned portion 4. The arrangement is such that whenever a door 2 of any compartment is opened the occupant thereof or any object in the compartment may slide down the chute.

Situated in front of the chute is a space 5 which is intended to be occupied by the patrons of the amusement apparatus. The persons in the area 5 have a view of the doors of the compartment and also of the chute.

Means are provided for normally holding the doors 2 closed thus concealing the occupants of the compartments from the view of the patrons. Means are also provided whereby the latch for each door may be released by the impact of a ball or other similar object thrown against a target carried by the door and in using the device the proprietor will offer for sale at a stipulated price a certain number of chances to throw balls or other objects at the targets of the doors. If the person throwing the ball makes an accurate shot he will hit the door so that the occupant of the opened compartment may slide down the chute in full view of the patrons.

While any suitable means for accomplishing this may be employed I have herein illustrated a simple but practical construction.

Each door 2 is acted on by a spring 6 which tends to open the door, said spring being herein shown as a pulling spring connected at one end to the wall of the compartment as shown at 7 and at the other end to an arm 8 extending at an angle from the inside of the door adjacent the hinge. The doors are made to open outwardly and when each door is unlatched the spring 6 quickly throws the door open. Each door may be latched in its closed position by means of a latch member 9 pivoted to the door at 10 and adapted to engage a keeper 11 on the door frame. This latch may conveniently be situated at the top of the door.

As stated above the means for releasing the latch includes a target at which the patrons may throw balls or other objects. Situated on the inside of each door 2 is a latch-releasing member 12 which is pivoted intermediate of its ends, to the door as shown at

13. The upper end 14 of this latch-releasing member overlies the tail 15 of the latch, the latter being acted on by a spring 16 which normally holds the latch in its operative position.

14. The door 2 has an opening 17 therein in line with the lower end 18 of the latch-releasing member and the construction is such that when a ball or other object is 19 thrown through the opening 17 and impacts against the lower end 18 of the latch-releasing member the latter will be given a slight turning movement which will bring the upper end 14 against the tail 15 of the latch 15 with a hammer-like movement which will be sufficient to release the latch and allow the spring 6 to open the door.

16. 19 indicates a table or counter situated between the chute and the space 5 for the patrons, this being a counter at which the balls or other objects to be thrown at the target will be sold.

17. Situated at one or both sides of the chute 25 is a runway 20 leading from the lower end of the chute back to the compartments. Each runway will preferably be separated from the chute by a partition 21 which is shown as having a door opening 22 therein 30 opposite the lower end of the chute so that when the occupant of any compartment has slid down the chute he or she may enter the doorway 22 and pass back to the compartment through the runway 20. The compartments 1 preferably all communicate with 35 each other through a passageway 23 at the back with which also the runways 20 communicate.

18. The apparatus may be provided with a roof 24 or may be in the open as desired.

40. Means are provided whereby the doors may be closed from the front of the chute so that after a door has been opened by reason of the fact that its target has been hit by the ball said door may be closed by the attendant at the counter. For this purpose each door has secured thereto a pull cord 30 which extends around direction pulleys 31 and leads to a position within convenient 45 reach of the operator at the counter 19.

46. One way of using the device is to station a person in each compartment 1. These persons may be attired in different costumes if desired. Each customer or patron who desires to can purchase at the counter 19 the right to throw three or more balls at the targets 18. If any thrown ball hits the target then the corresponding door will be opened automatically as above described and 50 the occupant of the compartment will slide down the chute in full view of the persons occupying the area 5. The descent of such person will be terminated by the upturned part 4 of the chute and said person will then 55 pick himself or herself up and enter the door

22 and return to the compartment through the runway 20.

56. The enjoyment which the patrons receive from this apparatus comes partly from the fact that the throwing of the balls at the 70 targets is a test of skill and partly from the uncertainty as to what will be forthcoming from the compartment and partly from the amusement which is always afforded by watching a person slide down a chute in 75 various attitudes which result from being unexpectedly precipitated onto the chute.

I claim—

1. In an amusement device the combination with a chute, of a compartment at the upper end of the chute having a door opening leading to the chute, a door for closing said opening, a latch to hold the door closed, a latch-releasing member situated on the inside of the door, the latter having an opening through which a portion of the latch-releasing member is exposed, said portion forming a target at which an article may be thrown, the movement of the latch-releasing member due to the impact of an article thrown against it operating to release the latch, and means to automatically open the door when the latch is released. 80

2. In an amusement device the combination with a chute, of a compartment at the upper end of the chute having a door opening leading to the chute, a door for closing said opening, said door having an opening therein, means normally holding the door closed, a member situated inside the door and having a portion exposed through the opening in the door, said portion forming a target at which an article may be thrown, means actuated by said member when it is moved by the impact of an article thrown against it to release the door, and means for automatically opening the door when it is released. 90

3. In a device of the class described, the combination with a chute, of a plurality of compartments at the head of the chute each having a door opening leading to the chute, a door for closing each opening, a latch to hold each door closed, a latch-releasing member for each latch, each latch-releasing member being situated on the inside of the door, and the latter having an opening through which a portion of the latch-releasing member is exposed, thereby to form a target at 110 which an article may be thrown, the movement of said latch-releasing member due to the impact of an article thrown against it operating to release the latch, and means to automatically open the door when the latch 120 is released.

In testimony whereof, I have signed my name to this specification.

HERBERT N. RIDGWAY.