A. JAVELET.

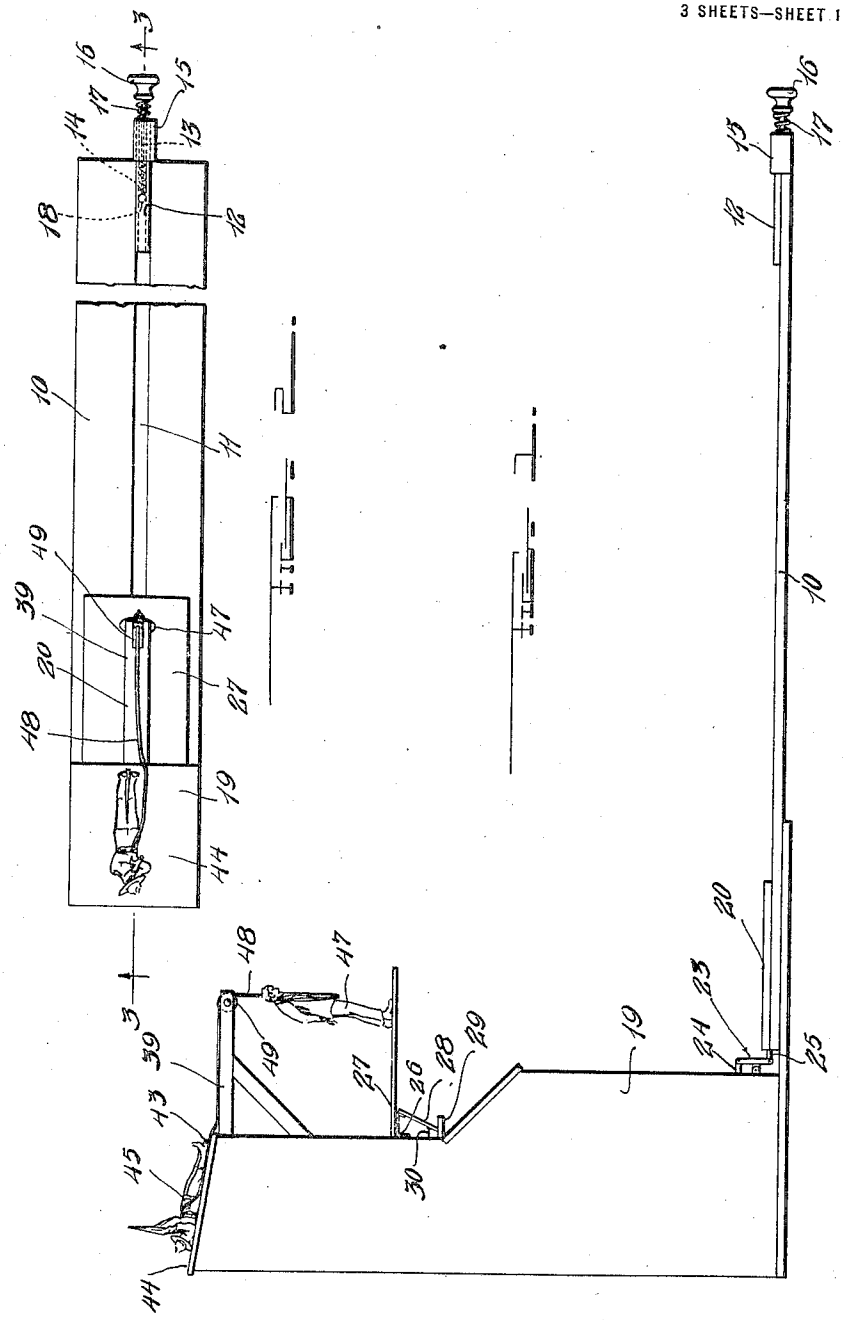
AMUSEMENT DEVICE.

APPLICATION FILED OCT. 6, 1919.

1,343,136.

Patented June 8, 1920.

3 SHEETS—SHEET 1.



WITNESS:

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3 SHEETS—SHEET 2.

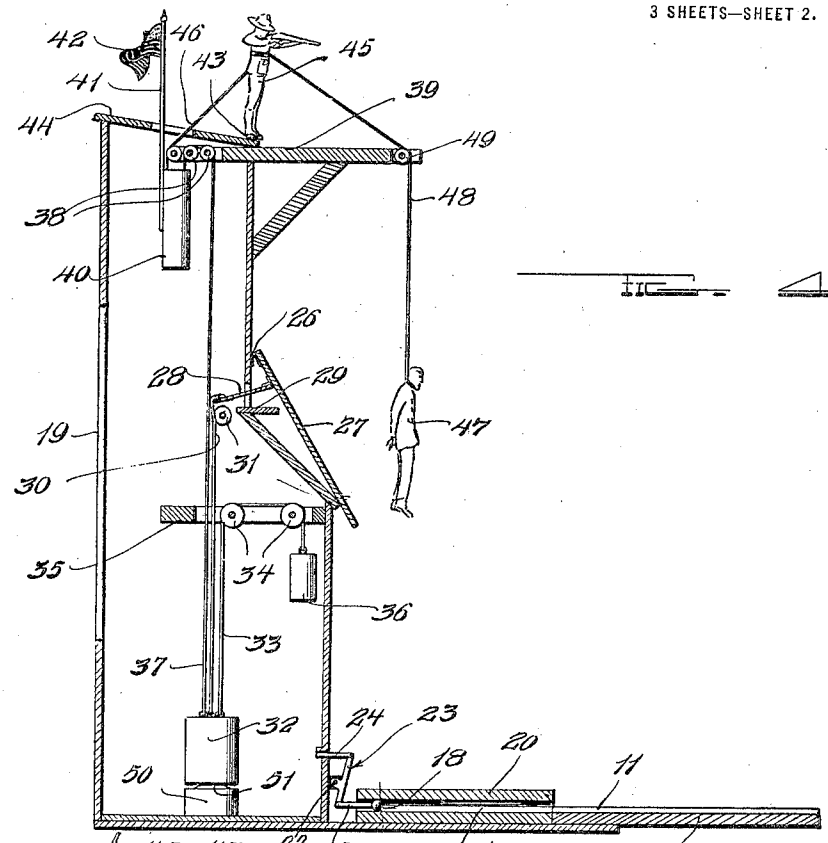


FIG. 2.

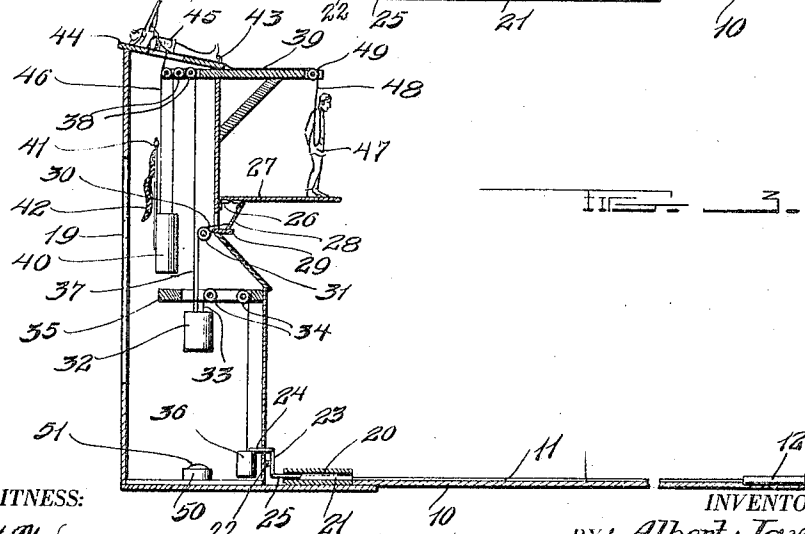


FIG. 3.

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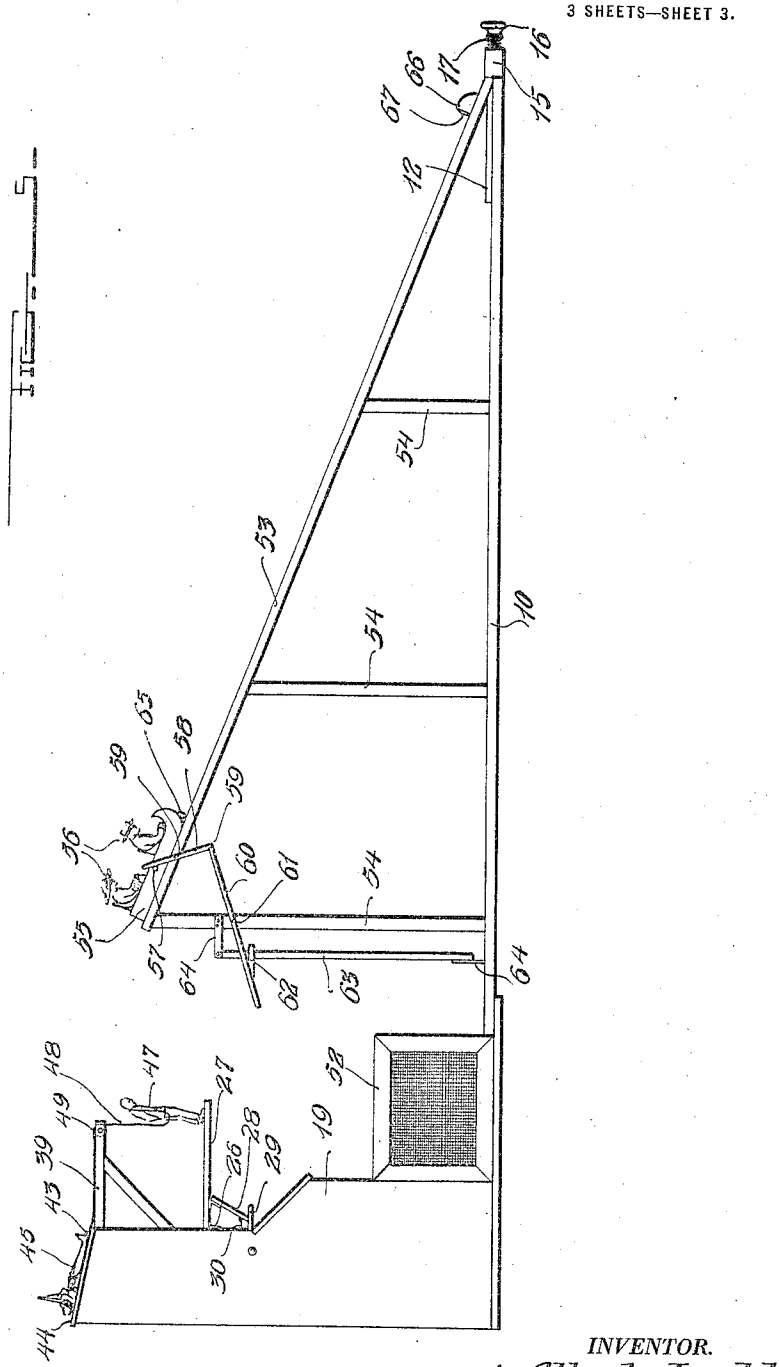
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3 SHEETS—SHEET 3.



WITNESS:

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UNITED STATES PATENT OFFICE.

ALBERT JAVELET, OF NEW ORLEANS, LOUISIANA.

AMUSEMENT DEVICE.

1,343,136. Specification of Letters Patent. Patented June 8, 1920.

Application filed October 6, 1919. Serial No. 328,658.

To all whom it may concern:

Be it known that I, ALBERT JAVELET, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented new and useful Improvements in Amusement Devices, of which the following is a specification.

This invention has reference to improvements in toys and particularly pertains to that class of amusement devices in which a missile is projected and, if properly directed, will contact with means for operating a plurality of figures or other devices.

An object of the invention is to produce a toy of this character which not only creates amusement, but which requires a certain amount of skill to cause the proper operation thereof.

A still further object of the invention is to produce a toy or amusement device of this character wherein figures or the like will be brought to moving positions when a projectile is properly directed and also wherein a detonator will be sounded upon the movement of the figures.

Many other objects and advantages will present themselves as the nature of the invention is better understood, reference being had to the accompanying drawings, in which:

Figure 1 is a side elevation of the improvement.

Fig. 2 is a top plan view thereof.

Fig. 3 is a sectional view approximately on the line 3—3 of Fig. 2, the parts being in the position illustrated in Fig. 1.

Fig. 4 is a detail enlarged sectional view of a portion of the device showing the arrangement of parts when the projectile has been properly directed to actuate the figures, etc.

Fig. 5 is a side elevation illustrating the improvement provided with additional moving elements that are actuated by the projectile.

The improvement contemplates the employment of a base or table which may be constructed in sections of any desired length, and if desired, of course, only one of such sections may be employed. The base is broadly indicated by the numeral 10 and may be approximately centrally formed with a longitudinal groove providing an alley 11. At the outer end of the base 10 in the alley 11 is arranged a barrel 12 in which is a plunger 13 that is influenced by a spring 14. The plunger passes through a suitable metallic block 15 in the outer end of the base and this end of the plunger is provided with a handle 16. Arranged on the plunger rod between the handle and the block is a shock absorbing spring 17. The barrel is designed to receive therein the operating means for the improvement and is adapted to be projected through the barrel by the plunger. The projectile is preferably in the nature of a metallic ball 18, and the alley is of greater width than the ball so that a determined degree of accuracy is required in the projecting of the ball to operate mechanism hereinafter described. To add to the degree of skill to be exercised by the operator the block 15 may be pivotally secured to the end of the base or table.

On the end of the base or table opposite that provided with the projecting means for the operating element there arises a housing or casing 19. On the base directly forward of the housing 19 is a metallic block 20 provided with a central longitudinal bore 21 arranged in a line with the alley 11. It is necessary that the ball be projected through the bore 21 in order to operate the mechanism hereinafter to be described, which, it will be noted, requires a determined amount of skill upon the part of the operator.

Hingedly secured to the front of the housing 19, as at 22 is a contact trigger 23. The trigger includes a straight central portion having its ends offset in opposite directions. These offset ends are hingedly connected to the central straight portion of thet trigger. The upper offset end, indicated by the numeral 24 is received in the opening in the face of the housing. The lower offset end, indicated by the numeral 25, has its outer portion received in the bore 21 of the block 20.

On the front of the housing, that is, the face thereof confronting the base and the projecting mechanism which may be referred to as the gun, there is hinged, as at 26, a shelf 27. Hingedly secured to the bottom of the shelf 27 slightly outward of the hinge 26 is a link 28, the said link resting upon an outwardly projecting ledge 29 secured upon the front face of the housing. Connected to the link 28 is a flexible element 30 which may be in the nature of a chain or cord and which is trained around

a grooved wheel or pulley 31 that has its shaft journaled in suitable bearings in the sides of the housing 19. The end of the flexible element 30 is connected to a weighted member 32. Also connected to the upper end of the weighted member 32 is a second flexible element 33 that is trained over the sheave wheels or pulleys 34 that have their shafts journaled in a transverse beam 35 in the housing 19. The end of the last mentioned flexible element 33 is connected to the top of a smaller weighted element 36, and the said element 36 is normally engaged by the upper arm 24 of the trigger 23. It will be apparent from the foregoing that should the projectile be properly directed through the bore 21 of the block 20 the same will contact with the lower arm 25 of the trigger 23, swing the same upon its pivot 22 to cause the trigger to release the lighter weighted element 36, and allow the heavier weighted element 32 to fall downwardly, and as a result cause the flexible element 30 to pull on the link 28 and thus release the shelf 27 from its support and permit of the same to drop downwardly. The downward movement of the shelf is limited by contact with the end of the ledge 29 or by contact with an angle portion at approximately the center of the front of the housing 19.

A third flexible element, indicated by the numeral 37 is secured to the upper face of the weight 32, and this element is arranged over sheave wheels or pulleys 38 that have their shafts journaled in a beam 39 that projects partly inwardly but which is also extended outwardly of the casing 19. The free end of the flexible element 37 is connected to a comparatively light weighted member 40, and on the member 40 there is secured a staff 41 having at its outer end a flag or emblem 42. The top of the housing 19 is provided with a suitable opening through which the staff and emblem will pass when the weight 32 is in its descended or lowered position, the said staff and emblem being wholly received in the housing when the device is in its set position, or until the trigger 23 is operated by the projectile.

Hingedly secured, as at 43 to the inclined top 44 of the housing 19 is a figure 45 connected by a flexible element 46 to the light weight 40.

When the shelf 27 is in its normal horizontal position there rests thereon an upright figure 47. Connecting the figure 47 with the figure 45 is a flexible element 48 that travels over a grooved wheel 49 that is journaled in the outwardly projecting end of the beam 39. The figure 47 is of a greater weight than the figure 45, and it will be apparent that when the device is operated and the shelf dropped the weight of the figure 47 will draw on the flexible element 48 to operate the figure 45 to an upright position. As stated, the top of the housing is arranged at an inclination and the figure 45 is normally concealed, resting on the said inclined top, but if desired the figure 45 may be received in a suitable pocket in the top of the housing to more effectively conceal the same. The figure 45 is designed to represent a soldier provided with an armed firing piece, and in the bottom of the housing, directly in the path of contact with the weight 32 is an anvil 50. On the anvil is a detonator in the nature of a cap 51, and the weighted element 32, in its descent is designed to contact with this cap to explode the same, thus simulating the firing of the gun by the figure of the soldier 45. The housing 19, preferably at the back thereof has a suitable opening through which access to the members therein may be obtained, and also whereby the detonator may be placed on the anvil 15.

The block 20 and the trigger 23 may be inclosed by a screen 52, and on the table or base 10 outward of the said screen there may be arranged an inclined plane 53 supported by suitable uprights 54 secured upon the base. On the inclined plane 53 may be arranged a slide 55 that may represent a sled and in the sled are figures 56. On one side of the sled 55 is a pin 57 that is designed to be contacted by a link 58 that is pivotally secured, as at 59 to the side of the inclined plane or chute 53. This link 58 has its free end loosely connected as at 59 to a second link or lever 60, the latter being loosely pivoted, as at 61 to one of the end uprights that support the inclined plane or chute 53. The link 60 is normally contacted by a lug 62 arranged upon one side of a pivoted arm or lever 63, the said lever being pivoted to a bracket 64 that extends outwardly or in the direction of the housing 19 from the upright to which the link 60 is pivoted. The lever 63 has on its outer end an offset element in the nature of a trigger 64 that is in the path of contact of the projectile. It will be apparent that when the projectile contacts with the trigger 64 the lever 63 will be swung in the direction of the housing, thus swinging the lever 60 in one direction which, influencing the link 59 causes the same to become free of engagement with the pin 57. This permits the sled to slide downwardly on the chute or inclined plane 53. The sled has at its forward end a contact member 65, and the lower end of the inclined plane or chute has thereon a bumper which is in the nature of an anvil, and which is designated by the numeral 66. On the inner face of this bumper is arranged a detonator in the nature of an explosive cap 67. When this cap is contacted by the element 65 the same will explode.

If the operating ball is projected with

sufficient force it will not only operate the mechanism to release the sled but will also have sufficient force to operate the trigger 23, and while I have illustrated certain figures designed to be operated by the contact of the projectile with the triggers, it is to be understood that I am not to be limited in the precise construction, arrangement and operation of such figures but that other figures operating in a different manner may be employed with equal efficiency without departing from the spirit or sacrificing any of the advantages of the improvement.

Having thus described the invention, what is claimed as new, is:—

1. An amusement device designed to be actuated by a projected element, including means for projecting a spherical element, comprising a plurality of superimposed figures, a pivoted shelf supporting one of the figures, flexible elements connected to all of the figures, guide sheaves for said flexible elements, weights connected with said flexible elements, a pivoted trigger engaging one of said weights whereby to influence all of the weights to retain the figures in one position and said weights, when the trigger is contacted by the projectile to release the last mentioned weight, designed to draw upon the flexible elements to bring certain of the figures to other positions and to release the shelf supporting the remaining figures.

2. In an amusement device, a base having an alley therein, a spring actuated gun at one end of the alley and said gun designed to project a spherical element through the alley, a block having a longitudinal bore therethrough arranged in the alley adjacent one end thereof, a housing disposed adjacent to the block, a shelf pivoted to the housing, a ledge below the shelf, a pivoted link secured to the shelf and normally resting on the housing for retaining the shelf in one position, a figure supported on the shelf, a second figure pivotally secured on the housing, a flexible element connecting both of said figures, guide means for said element, flexible elements connecting the last mentioned figure and the supporting link for the shelf, guide means for said flexible elements, weighted means connected therewith and designed to influence the same in one direction whereby to bring the last mentioned figure to a second position and to operate the link to release the pivoted shelf, an emblem carried by one of the weighted means and designed to be projected through the housing when the parts are actuated as stated, a pivoted trigger engaging one of the flexible elements for retaining all of the elements in normal position, and said trigger being disposed opposite the bore of the box and in the path of contact with the spherical projectile and designed, when so contacted to release the weighted means.

3. In an amusement device, flexibly suspended figures, certain of which being connected to each other and being disposed one below the other, a pivoted shelf supporting the lowermost figure, latching means therefor, weighted means connected with the first mentioned figure and with the latching means, a detonator arranged in the path of contact with one of the weighted means, an emblem carried by another of the weighted means, a pivoted trigger engaging another of the weighted means, and said trigger being in the path of contact with a projectile whereby to release the weighted means to actuate the latch to release the shelf and bring the figures to a second position and likewise elevate the staff and permit of the sounding of the detonator.

In testimony whereof I affix my signature.

ALBERT JAVELET.