E. G. KELLEY.

AMUSEMENT DEVICE.

APPLICATION FILED MAY 6, 1915.

1,186,206.

Patented June 6, 1916.

2 SHEETS—SHEET 1.

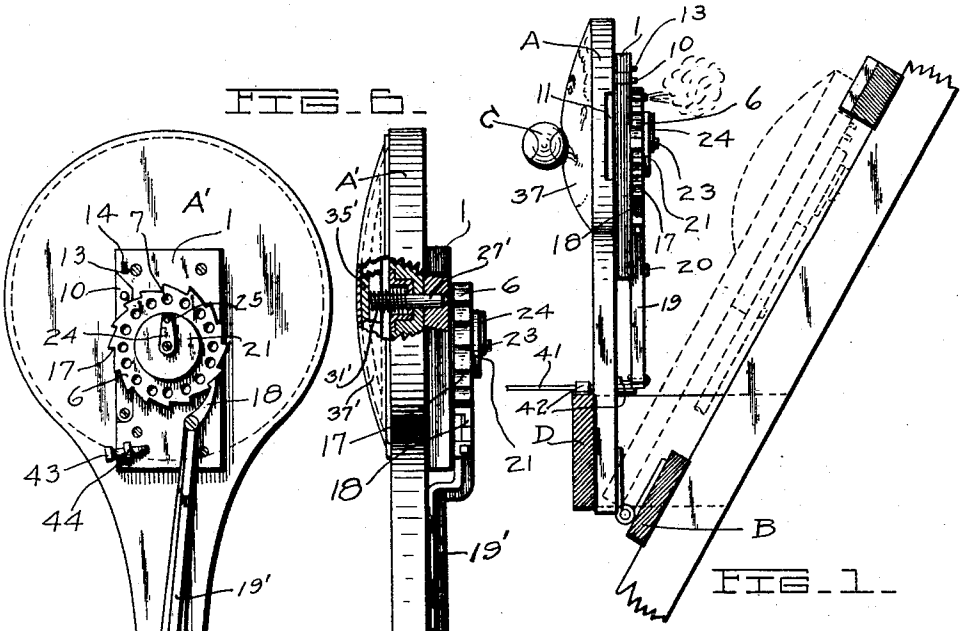


FIG. 1.

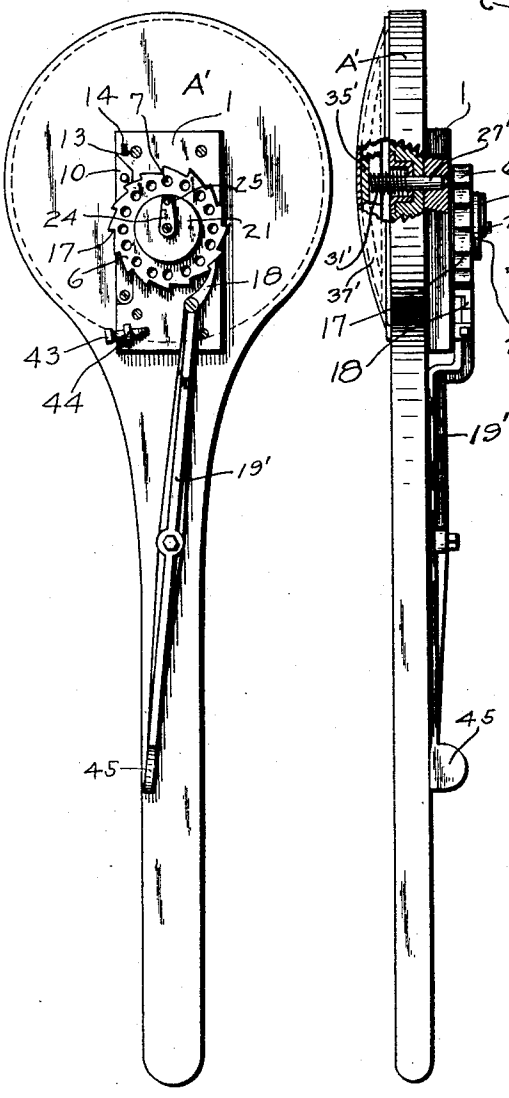


FIG. 6.

FIG. 5.

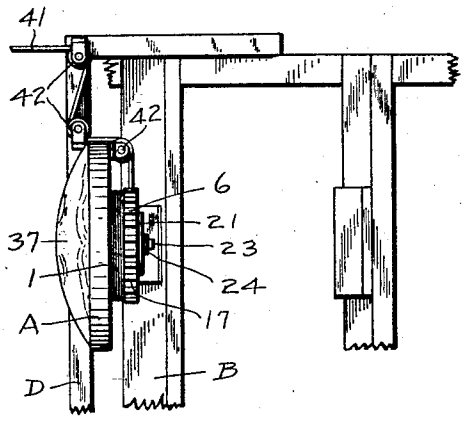


FIG. 2.

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By Ralph Kalish

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THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

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2 SHEETS—SHEET 2.

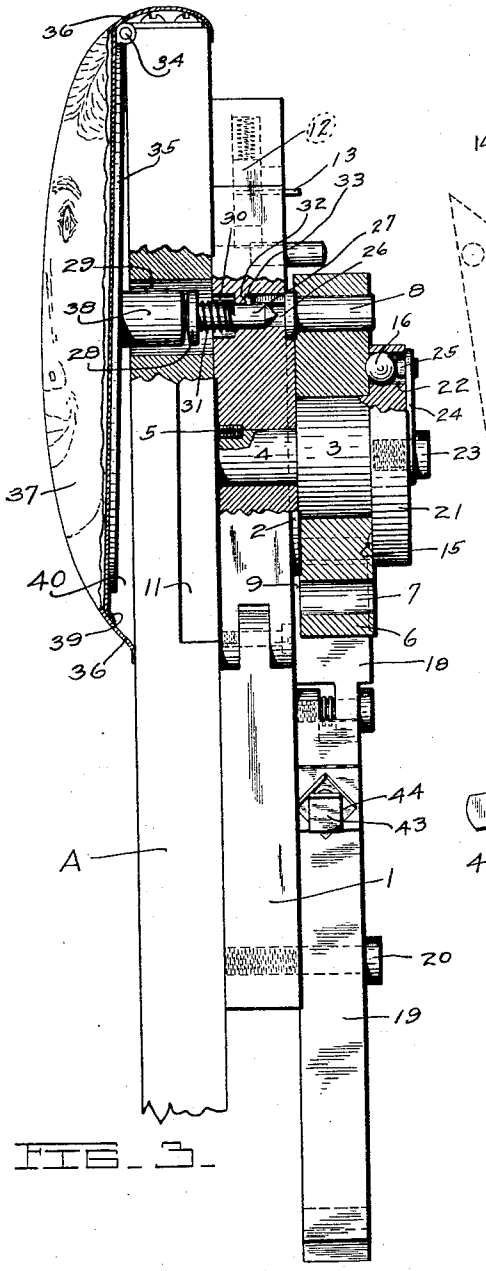


FIG. 3.

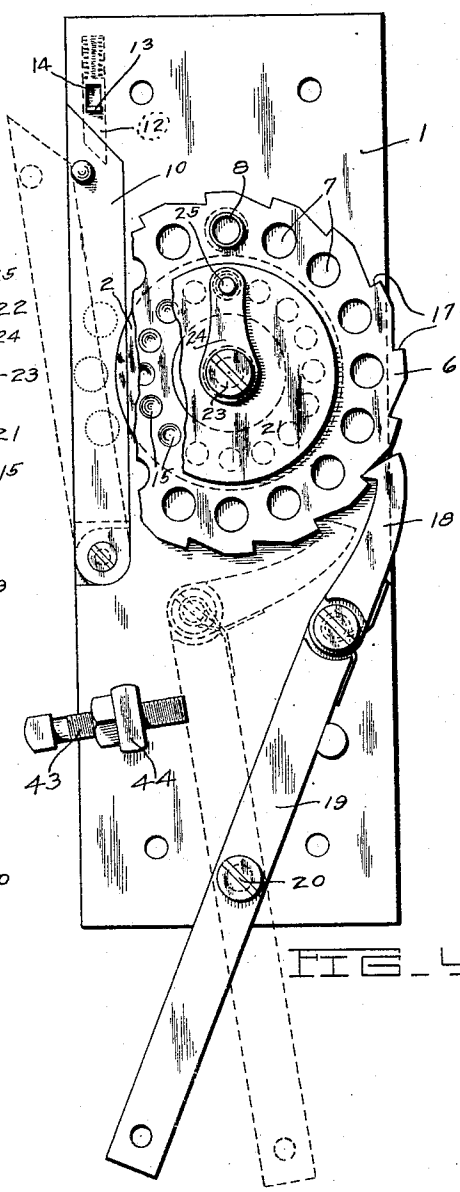


FIG. 4.

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AMUSEMENT DEVICE.

1,186,206. Specification of Letters Patent. Patented June 6, 1916.

Application filed May 6, 1915. Serial No. 26,358.

To all whom it may concern:

Be it known that I, EDWARD G. KELLEY, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Amusement Devices, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

This invention relates to a certain new and useful improvement in amusement devices.

My present invention may be employed and used in ball-throwing games in summer-gardens and the like, on what are commonly known as slap-sticks, and to afford amusement in various other ways and connections, the general object of my present invention being to provide a simple and inexpensive device having an explodable-shell carrying-member or magazine and means for exploding the shells successively, to the amusement of the participants or bystanders of the game, on the application to the device of successive impacting blows, which may be variously delivered, the shell-carrying member being quickly and conveniently actuated or manipulated to deliver the shells successively in explodable position to receive the force of the blow.

With the above and other objects in view, my invention resides in certain novel features of form, construction, arrangement, and combination of parts, all as will hereinafter be described and afterward pointed out in the claims.

In the accompanying drawings, which show my invention both in a preferred and modified form, Figure 1 is a side elevational view of an amusement device embodying my invention, the device being shown as employed in connection with a ball-throwing game and which form of my invention will, for purposes of distinction, be described as the preferred form thereof; Fig. 2 is a plan view of the same; Fig. 3 is an enlarged side elevational view of the same, partly broken away and in section; Fig. 4 is an enlarged rear elevational view of the operating mechanical parts of my invention; Fig. 5 is a rear elevational view of a slap-stick equipped with my invention; and Fig. 6 is a side elevational view of the same, partly broken away and in section.

Referring to the said drawings, in which like reference characters refer to like parts throughout the several views, and particularly to Figs. 1, 2, and 3 thereof, 1 indicates a flat plate or block preferably of metal and of suitable weight, thickness and shape, preferably rectangular, which is adapted to be flatwise fixed upon a suitable body-member A. In use or operation, in this form of my invention, body-member A is adapted to be hinged upon a suitable support B preferably obliquely disposed to provide a rest for body-member A when hingedly thrown under the impact or blow of a thrown ball C, as indicated in dotted lines in Fig. 1, support B having a portion D against which body-member A is adapted to bear when in upright, ball-receiving or operative position, as shown in full lines in Fig. 1, and all as will be well understood.

Positioned flatwise upon a disk-boss 2 on the rear face of plate 1 and journaled for rotation upon a bearing 3 fixed to plate 1 by means of a preferably integral stud-shaft 4 and a securing-screw 5, as shown in Fig. 3, is an enlarged disk 6 provided transversely adjacent its periphery with an annular series of cylindrical openings 7 adapted to provide chambers for explodable shells 8. Disk 6 being suitably larger in diameter than is plate-boss 2, a clearance, as at 9, is provided between plate 1 and rotatable magazine-disk or cylinder 6 for the rims or heads of shells 8. Plate 1 at one side edge adjacent disk 6 is suitably cut-away and provided with a hinged-portion 10 adapted to be swung to open position, as indicated in dotted lines in Fig. 4, to permit the ready insertion of shells 8 in their chambers 7, body-member A, for such purpose, being also suitably cut-away, as at 11. Arranged in plate 1 to engage with its hinged-portion 10 to releasably lock the same in closed position, is a suitable spring-pressed slidable latch 12 having an operating finger-piece 13 workably fitting in a slot, as at 14, in plate 1, as clearly seen in Fig. 4. On its rear face, disk 6 is also provided, as shown, with an annular series of recesses 15 adapted to form ratchet-seats for a ratchet-ball or spherical-pawl 16, for purposes hereinafter appearing.

On its periphery, disk 6 is provided with a series of ratchet-teeth 17, with which a spring-pressed dog or pawl 18 is adapted to engage to rotatably actuate disk or cylinder 6, pawl or dog 18 being pivotally connected to one end of a lever or bar 19 pivotally secured as by means of a pivot-bolt 20 to plate

or block 1. Also preferably integral with bearing 3 and adapted to rotatably secure disk 6 thereupon, is a circular head-portion 21 provided transversely with a cylindrical opening 22, within which is contained spherical-pawl or ratchet-ball 16. Fixed at one end, as by a screw 23, to and upon the outer face of head 21, is a flat spring 24 provided at its free end with a pin 25 projecting into opening 22 to engage with ball 16 to resiliently hold the same in engagement with respective recesses 15 of disk 6 to yieldingly lock disk 6 against rotation.

Slidable lengthwise in a suitable transverse opening or aperture 26 provided in plate 1 in operative position relatively to disk 6 and its shell-openings or chambers 7, is a shell-firing-pin 27 preferably pointed at one end to engage the respective shells 8 and provided at its other end with an enlarged preferably circular head 28, body-member A being correspondingly provided transversely with an enlarged cylindrical opening or aperture, as at 29, to accommodate head 28 of firing-pin 27. At its outer face, plate 1 is counter-bored, as at 30, concentric with opening 26, and interposed on firing-pin 27 between its head 28 and the base of counter-bored portion 30 of plate 1, is a coiled spring 31 adapted to yieldingly hold firing-pin 27 in outermost or striking position relatively to disk or cylinder 6 and its carried shells 8. On its rear face and also at its said opening 26, plate 1 is further cut-away to provide a shoulder, as at 32, with which a lateral stud 33 on firing-pin 27 is adapted to engage to hold pin 27 in operative position in plate 1 under the tension of spring 31.

Hingedly secured, as at 34, to swing flatwise relatively to and upon the outer face of body-member A, is a preferably flat circular plate 35, and fixed at its fabric outer or cover-portion 36 to and upon body-member A with swingable plate 35 inclosed and covered thereby, is a cushion-member 37 preferably bearing upon its exposed or projectile-receiving surface the imitation or representation of a man's face, as illustrated. Fixed to and upon the rear face of plate 35 and projecting into said opening 29 to engage the head 28 of firing-pin 27, is a member or hammer, as I will call it, 38. As seen particularly in Fig. 3, the inner lining 39 of cushion-member 37 is so secured to fabric cover-portion 36 as to provide a space, as at 40, to permit of a limited swinging movement of plate 35, plate 35 being normally yieldingly held swingably away from body-member A under the tension of firing-pin spring 31.

In operation or use, body-member A with plate 1 and its associate parts being mounted and in upright position upon support B, as before described, and disk or cylinder 6 carrying explodable shells 8 in its chambers 7, on a ball or other projectile C striking with suitable or sufficient force upon cushion-member 37, the impact or blow thereof will be imparted through plate 35 and hammer 38 to firing-pin 27 and, in turn, by firing-pin 27 to the particular shell 8 extending in proper alinement therewith, the said shell being thereby exploded. At the same time, under the impact or blow of the thrown ball or other projectile C, body-member A and its carried parts will be hingedly moved to down or struck position, as indicated in dotted lines in Fig. 1. By means of a flexible member or cord 41 working in suitable pulleys 42, as shown particularly in Fig. 2, and engaging not only with body-member A, but also with lever 19, body-member A will be hingedly returned to operative upright position and, at the same time, lever 19 will be pivotally actuated to rotate disk 6 through the engagement therewith of dog or pawl 18 and against the tension of spring-pressed spherical-pawl 16 to bring a second shell 8 in operative firing position relatively to firing-pin 27. I preferably provide a screw or the like 43 adjustable in a threaded member 44 mounted on plate 1 to regulate the throw of lever 19, and consequently the amount of rotation of disk 6, when actuated pivotally under the pull of cord 41.

As another or modified form or adaptation of my invention, I show the same in Figs. 5 and 6 in connection with a body-member A′ having the shape of what is commonly known as a slap-stick. This form of my invention is substantially similar to the form thereof hereinbefore described, but differs therefrom in that the front or face plate 35′ is spherically convexed in shape, with firing-pin 27′ fixed at one end upon the rear face thereof, firing-pin-spring 31′ being adapted to yieldingly maintain plate 35′ and firing-pin 27′ in striking position relatively to the explodable shells carried by disk or cylinder 6. Inclosing and covering plate 35′ and holding the same in operative position upon the body-member A′ under the tension of spring 31′, is a fabric covering-member 37′ fixed at its edges to body-member A′. Disk-actuating lever 19′ is also, in this form of my invention, provided preferably with a finger-piece 45 for manipulating the same. The impact or blow imparted to plate 35′ on the application with sufficient force of the slap-stick will, as will be obvious, drive firing-pin 27′ to firing position to explode the shells carried by the cylinder or disk 6.

I am aware that minor changes in the form, construction, arrangement, and combination of the several parts of my new device may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

Having thus described my invention, what

I claim and desire to secure by Letters Patent is:

1. In a device of the kind described, an apertured block, an explodable-shell carrying-disk flatwise mounted for rotation on said block, a yieldable firing-pin slidably fitting lengthwise in the aperture of said block and adapted to engage at its end with a shell carried by said disk to explode the same, and a member adapted to receive the impact of a blow, said firing-pin, under the impact of a blow upon said member, being driven into firing engagement with said shell.

2. In a device of the kind described, an apertured block, an explodable-shell carrying disk flatwise mounted for rotation on said block, a yieldable firing-pin slidably fitting lengthwise in the aperture of said block and adapted to engage at its end with a shell carried by said disk to explode the same, and a blow-receiving member swingably supported in operative position relatively to said firing-pin, said firing-pin, under the impact of a blow upon said member, being driven into firing-engagement with said shell.

3. In a device of the kind described, a body-member, an apertured block fixed upon one side of said body-member, said body-member having an aperture registering approximately with the aperture of said block, an explodable-shell carrying-disk flatwise mounted for rotation on said block, a yieldable firing-pin slidably fitting lengthwise in the aperture of said block and adapted to engage at its end with a shell carried by said disk to explode the same, and a blow-receiving member arranged upon the opposite side of said body-member, said firing-pin, under the impact of a blow upon said blow-receiving member, being driven into firing engagement with said shell.

4. In a device of the kind described, a body-member, an apertured block fixed upon one side of said body-member, said body-member having an aperture registering approximately with the aperture of said block, an explodable-shell carrying-disk flatwise mounted for rotation on said block, a yieldable firing-pin slidably fitting lengthwise in the aperture of said block and adapted to engage at its end with a shell carried by said disk to explode the same, and a blow-receiving member hingedly supported upon the opposite side of said body-member in operative position relatively to said firing-pin, said firing-pin, under the impact of a blow upon said blow-receiving member, being driven into firing engagement with said shell.

5. In a device of the kind described, a body-member, an apertured block fixed upon said body-member, said body-member having an aperture registering approximately with the aperture of said block, an explodable-shell carrying disk mounted for rotation on said block, and a firing-pin adapted to engage at its end with a shell carried by said disk to explode the same, said firing-pin slidably fitting lengthwise in the aperture of said block and having a portion projecting into the aperture of said body-member.

6. In a device of the kind described, the combination with a body-member, of a block fixed on said body-member, an explodable-shell carrying-member mounted for rotation on said block, means on said block for rotatably actuating said carrying-member, means for yieldingly locking said carrying-member against rotation, a yieldable firing-pin lengthwise movable slidably relatively to said block, and means including a swingable plate hinged on said body-member adapted, under the impact of a blow, to slidably actuate said firing-pin into firing engagement with a shell carried by said carrying-member to explode the same.

7. In a device of the kind described, the combination with a body-member, said body-member being transversely provided with an opening, of a block fixed on said body-member, an explodable-shell carrying member mounted for rotation on said block, means on said block for rotatably actuating said carrying-member, means for yieldingly locking said carrying-member against rotation, a yieldable firing-pin slidably mounted on said block, said pin normally projecting at one end into the opening of said body-portion, and means adapted, under the impact of a blow, to actuate said firing-pin into firing engagement with a shell carried by said carrying-member to explode the same, said last-named means including a swingable plate hinged to said body-member and a projection on said plate extending into the opening of said body-member to engage said firing-pin.

8. In a device of the kind described, the combination with a block, of an explodable-shell carrying-disk mounted for rotation on said block, said disk being provided with ratchet-teeth on its periphery, and means for rotatably actuating said disk, said means including a lever pivotally mounted on said block, and a spring-pressed pawl adapted to engage said teeth pivotally connected to said lever.

9. In a device of the kind described, the combination with a block, of an explodable-shell carrying-disk mounted for rotation on said block, said disk being provided with an annular series of recesses, means on said block for rotatably actuating said disk, and a spring-pressed spherical-pawl on said block adapted to resiliently coöperate with said recesses to yieldingly lock said disk against rotation.

10. In a device of the kind described, the combination with a support, of a body-mem-

ber hingedly mounted on said support, a block fixed on said body-member, an explodable-shell carrying-member mounted for rotation on said block, means on said block for rotatably actuating said carrying-member, said means including a lever pivoted on said block, means for yieldingly locking said carrying-member against rotation, a yieldable firing-pin slidably mounted on said block, means on said body-member adapted, under the impact of a blow, to actuate said firing-pin into firing engagement with a shell carried by said carrying-member to explode the same, and a flexible member having engagement with said body-member and with said lever for hingedly moving said body-member into operative blow-receiving position and pivotally moving said lever to rotatably actuate said carrying-member.

11. In a device of the kind described, the combination with a block, of an explodable-shell carrying-disk mounted for rotation on said block, said disk being provided with an annular series of recesses, a yieldable firing-pin slidably movable on said block, said firing-pin being adapted, under the impact of a blow, to engage with a shell carried by said carrying-member to explode the same, and a spring-pressed spherical-pawl on said block adapted to engage with said recesses to yieldingly lock said disk against rotation.

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

EDWARD G. KELLEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."