June 16, 1936. H. E. WILLIAMS 2,044,268

AMUSEMENT APPARATUS

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Fig. 1.

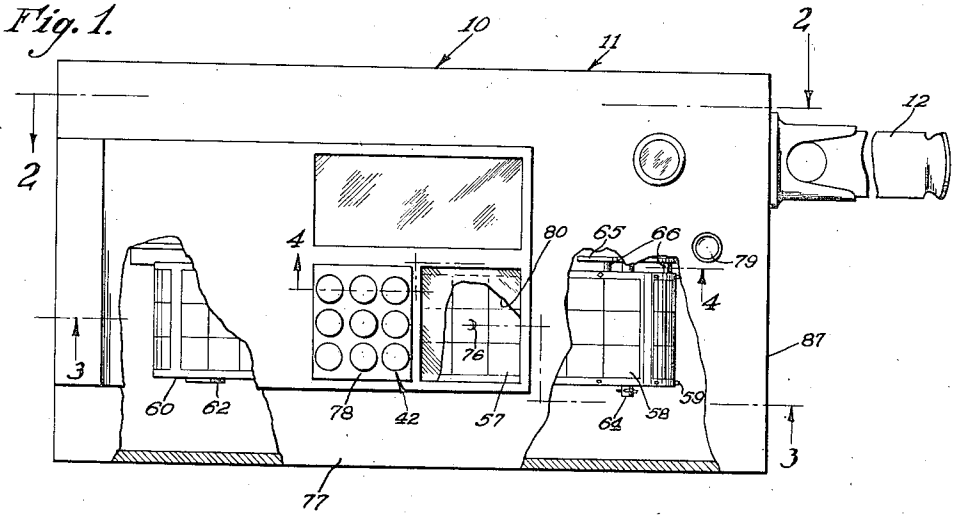
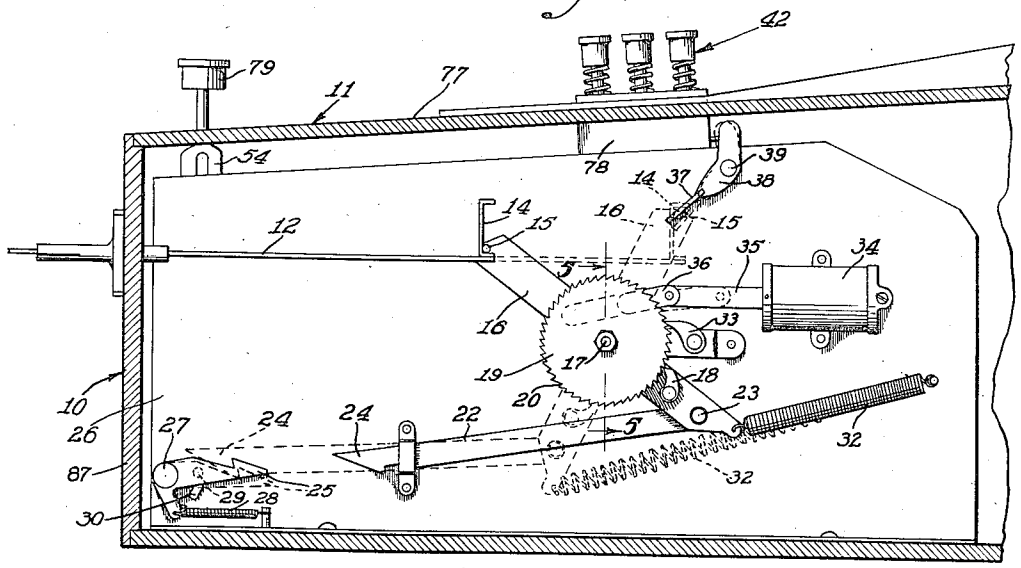


Fig. 2.



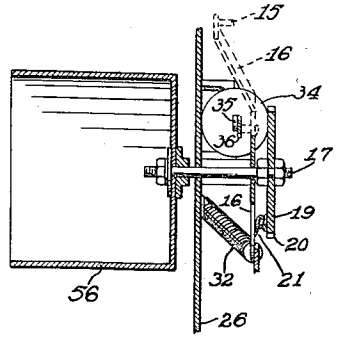


Fig. 5.

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Fig. 3.

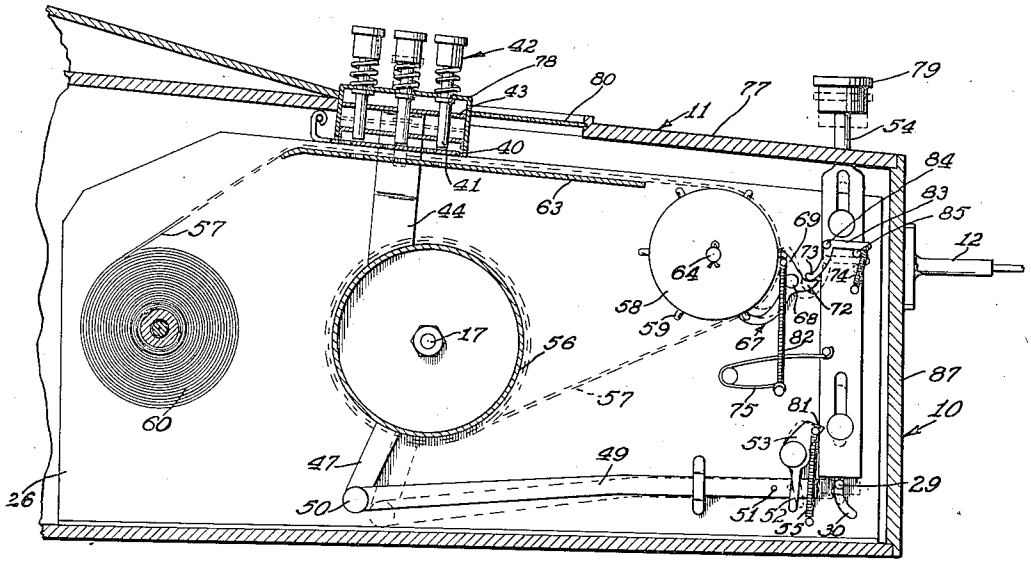
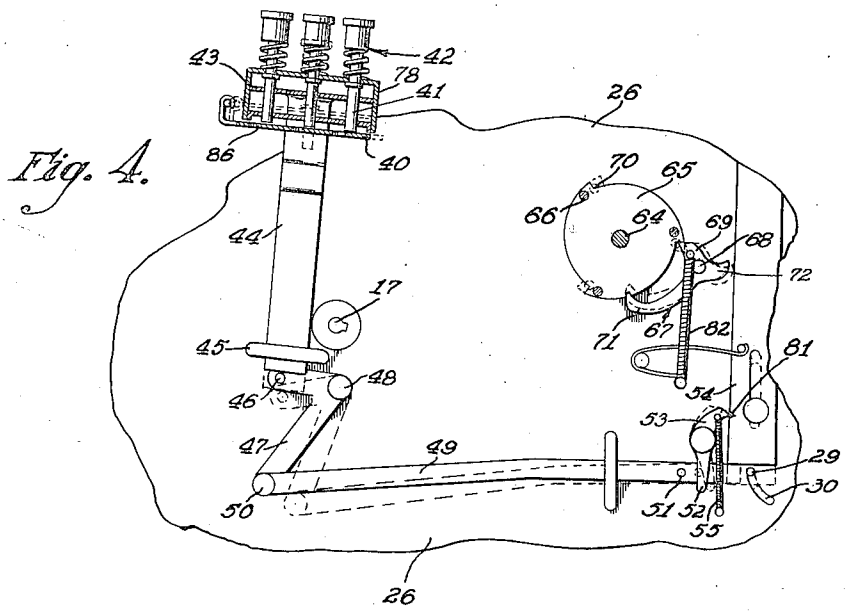


Fig. 4.



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2,044,268

AMUSEMENT APPARATUS

Harry E. Williams, Los Angeles, Calif.

Application August 23, 1935, Serial No. 37,419

4 Claims. (Cl. 273—139)

This invention relates to an amusement apparatus.

It is an object of this invention to provide an amusement apparatus which is relatively simple and inexpensive in construction and efficient in use.

Another object of the invention is to provide in an amusement apparatus the combination of: a cabinet having a sight opening formed therein; a web of indicia-bearing or penetrable material in said cabinet; a member movably mounted in a wall of said cabinet and including a portion engageable with said web for perforating the same; and means including a member movably mounted in a wall of said cabinet for advancing the said web in a step by step movement so as to move the portion of the same perforated or engaged by the said first named member into registration with said sight opening.

Other objects will appear hereinafter.

The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be understood best by reference to the accompanying drawings showing the preferred form of construction, and in which:

Fig. 1 is a top plan view of a preferred embodiment of the new game apparatus with part of the cabinet broken away to show the arrangement of the various operating parts of the mechanism embodied in the invention;

Fig. 2 is a horizontal sectional view taken on line 2—2 in Fig. 1;

Fig. 3 is a sectional view, taken on line 3—3 in Fig. 1, showing certain parts of the apparatus in section and showing certain other parts in elevation;

Fig. 4 is a sectional detail view taken on line 4—4 in Fig. 1; and

Fig. 5 is a detail view taken on line 5—5 in Fig. 2.

Referring to the drawings, in which a preferred form of the present invention is illustrated, the reference numeral 10 indicates generally an amusement device which comprises a cabinet 11.

Slidably mounted in the end wall 87 of the cabinet 11 is a coin slide 12, and carried by the inner end portion of the coin slide 12 (right hand end portion as seen in Fig. 2) is an angled extension 14 which is engageable with a laterally projecting pin 15 which is carried by a member 16. This member 16 is loosely mounted, that is, "floats", on a horizontal shaft 17 which is arranged in the cabinet 11 below the top wall 77 thereof (Fig. 2), and when the coin slide 12 is moved inwardly (from left to right, Fig. 2), the angled end portion or extension 14 thereof engages the pin 15 of the bar 16 and rotates or pivots the latter (clockwise, from full to dotted line position, Fig. 2) against the action of a resetting spring 32 which is attached to the bar 16 (Fig. 2).

Pivotally mounted on the member 16 is a pawl 18, and this pawl 18 is engageable with the teeth 20 of a ratchet 19 which is fixed on the shaft 17, and the pawl 18 is urged into engagement with the teeth 20 of the ratchet 19 by means of a small spring 21 (Fig. 5). Pivotally connected to the member 16, as at 23, is a latch member 22 which has a hooked end portion 24 (Fig. 2), and this hooked end portion 24 of the latch member 22 is latchingly engageable with a latch keeper 25 (Fig. 2). The latch keeper 25 is pivotally mounted in the cabinet 11, as at 27, upon a vertical supporting wall 26, and attached to the latch keeper 25 is a small spring 28 which urges the latch keeper in a counterclockwise direction (Fig. 2). Movement of the latch keeper 25 is, however, restricted by means of a pin 29 which is attached to the latch keeper 25 and which works in a slot 30 which is formed in the vertical wall 26 of the cabinet 11 (Fig. 2).

Engageable with the teeth 20 of the ratchet 19 is a dog 33, and clockwise movement of the ratchet 19 (as seen in Fig. 2) is prevented by the action of the dog 33 which permits movement of the ratchet 19 in a counterclockwise manner only (Fig. 2).

Mounted upon the supporting wall 26 is a dashpot 34 which includes a piston rod 35, and this piston rod 35 is operatively connected to the member 16 by means of a link mechanism 35—36, this link mechanism 35—36 serving to retard any abrupt motion of the member 16 which might result from the action of the tensioned resetting spring 32 upon the member 16.

The angled inner end portion 14 of the coin slide 12 is engageable with a depending extension 37 of a resilient spring member 38 which is pivotally mounted between its ends, as at 39, on the supporting wall 26 (Fig. 2). Attached to the upper end portion of the member 38 (Fig. 4) is a flat perforated metal plate 40, the perforations in this plate 40 being so arranged that they are normally disposed out of vertical alignment or registration with the lower end portions or stems 41 of a bank of keys or push buttons 42 which are slidably mounted in a casing 78 which is arranged in an opening provided therefor in the top wall 77 of the cabinet 11 (Fig. 3), the stem

portions 41 of the keys or push buttons 42 being adapted to engage the web 57 for the purpose of perforating or otherwise marking or inscribing the same.

Slidably mounted in the casing 78 upon the stems 41 of the keys or push buttons 42 is an apertured plate 43, and attached to the plate 43 is a depending arm 44 which extends downwardly in the cabinet 11 through a guide member 45 which is attached to the wall 26 (Fig. 4). The lower end portion of the depending arm 44 rides or bears upon a pin 46 which is attached to one arm of a bell crank 47, and this bell crank 47 is pivotally mounted, as at 48, upon the supporting wall 26. Pivotally connected to the bell crank 47, as at 50, (Fig. 3) is an arm 49, and carried by this arm 49 is a pin 51.

When the depending bar 44 is moved downwardly by the action of one of the keys or push buttons 41—42, the lower end portion of the member 44 engages the laterally projecting pin 46 which is carried by the bell crank 47, thereby pivoting the bell crank 47 (counterclockwise, Fig. 4). This movement of the bell crank 47 moves the arm 49 (left to right, Fig. 4), thereby moving the pin 51, which is carried by the arm 49, into engagement with the depending arm or portion 52 of a latch dog 53, the dog 53 being urged by a spring 55 (Fig. 4) into engagement with a notched portion 81 which is provided in a slide rod 54, this slide rod 54 being slidably mounted in the cabinet 11 for vertical movement and having a knob or finger grip 79 at its upper end (Fig. 3). This knob or finger grip 79 is disposed exteriorly of the cabinet 11 about the top wall 77 thereof.

Floating on the shaft 17 is a web-advancing roll 56 to which is attached one end portion of a web of indicia-bearing material 57. This web of indicia-bearing or penetrable material 57 is guided about a guide roll 58 which has arranged upon its outer periphery a number of small lugs 59 which are engageable in similar perforations provided in the web 57 which is fed from a feed roll 60 (Fig. 3).

The guide roll 58 is free to rotate about its shaft 64, and also floating on the shaft 64 is a ratchet 65 which is attached to the guide roll 58 by means of pins 66 (Fig. 4). A latch dog 67 is pivotally mounted, as at 68, upon the supporting wall 26, and this dog 67 has an extension or arm 69 which rides upon the peripheral surface of the ratchet-wheel 65, this arm 69 being engageable in a recess or notched portion 70 which is formed in the periphery of the ratchet wheel 65.

The dog 67 also includes an arm 71, and this arm 71 normally rides out of engagement with the pins 66, but is engageable with the pins 66 so as to force the arm 69 of the dog 67 into engagement with the recess or notched portion 70 which is formed in the ratchet 65.

The dog 67 also has an angled extension or arm 72 (Figs. 3 and 4), and this extension or arm 72 is engageable with an angled extension 73 of a member 83 which is pivotally mounted, as at 84, upon the slide bar 54—79 (Fig. 3), so that when the slide bar 54 is forced downwardly (from full to dotted line position, Fig. 3), the arm 73 of the member 83 engages the extension 72 of the dog 67 and thereby pivots the dog 67, at 68, (clockwise, Fig. 4) thereby moving the arm 69 of the dog 67 out of latching engagement with the notched portion 70 of the ratchet 65, the dog 67 being normally urged by a spring 82 (in a counterclockwise direction, Fig. 4), so as to project the arm 69 thereof into the notched position 70 of the ratchet 67.

A spring 75 normally keeps the slide bar 54 in raised or full line position (Fig. 3), and a spring 74 urges the member 83 in a clockwise direction (Fig. 3), movement of the member 83 under action of the spring 74 being limited by a stop 85 which is carried by the slide bar 54.

Operation

When the coin slide 12 is moved inwardly (from left to right, Fig. 2), the angled inner end portion 14 thereof engages the pin 15 which is carried by the member 16 and thereby pivots the latter from full to dotted line position (clockwise, Fig. 2); and during this operation the angled end portion 14 of the coin slide 12 also engages the depending arm 37 of the element 38, thereby pivoting the member 38, at 39 (counterclockwise, Fig. 2). This movement of the member 38 (counterclockwise, Fig. 2) moves the apertured plate 40 in a direction (left to right, Fig. 4) to dispose the perforations 86 therein in vertical alignment or registration with the stems 41 of the keys or push buttons 42, so that the stems 41 of the push buttons 42 may be pressed downwardly into engagement with the web 57. The operator of the amusement device may then, by pressing down upon any preselected one of the keys or push buttons 41—42, cause the stems 41 of the same to engage and form a perforation 76 (Fig. 1) in the web 57; it being noted that the thus perforated portion of the web 57 is at this time disposed out of registration with the sight opening 80 (Fig. 1).

When the coin slide 12 is pushed in (left to right, Fig. 2), the member 16, being pivoted (clockwise, from full to dotted line position, Fig. 2), moves the latch bar 22 (from right to left, from full to dotted line position, Fig. 2), thereby causing the hooked end portion 24 of the latch member 22 to become latchingly engaged with the latch keeper 25, and at the same time causing the pawl 18 which is carried by the member 16 to move over the teeth 20 of the ratchet 19 (clockwise, Fig. 2).

The web 57 may be provided with any desired indicia for the purpose of vending merchandise or the like, and in order for the operator of the present amusement device to determine whether or not he has engaged or perforated the web 57 in such a manner as to be entitled to a prize of merchandise, he must first press downwardly the push button or web-advancing member 54—79. When the push button or web-advancing member 54 is pushed downwardly (from full to dotted line position, Fig. 3), the lower end portion of the same engages the pin 29 which works in the slot 30, and the pin 29 being formed as an integral part of the latch keeper 25, thus releases the latch keeper 25 from latching engagement with the hooked end portion 24 of the latch member 22, which is thereupon forced back to its normal or initial position (as in full lines, Fig. 2) by means of the resetting spring 32.

The latch member 22 is thereupon returned to its normal or initial position (as in full lines, Fig. 2) by reason of its resetting spring 32, and this movement of the latch member 22 pivots the member 16 (counterclockwise, from dotted to full line position, Fig. 2), thereby causing the pawl 18 to engage the teeth 20 of the ratchet 19, and thus moving the latter in a counterclockwise direction (Fig. 2). This movement of the ratchet 19 (counterclockwise, Fig. 2) rotates the shaft 17 and the web-advancing roll 56 a corresponding circumferential distance (clockwise, Fig. 3), and

this movement of the web-advancing roll **56** moves the web **57** over the guide roll **58**. The guide roll **58** is thus moved (in a clockwise direction, Fig. 3) a circumferential distance equal to the distance from one recess **70** to the next recess in the ratchet wheel **65**, and this movement of the web **57** moves the thus perforated portion thereof directly under or into registration with the sight opening **80** which is formed in the top wall **77** of the cabinet **11**, so that the operator may thus determine whether or not he has perforated or engaged a portion of the web **57** which entitles him to a prize.

When the coin slide **12** is returned to its initial position (right to left, Fig. 2), the tensioned spring member **38** is released and thereupon returns the perforated plate **40** to its normal or initial position (right to left, Fig. 4), and in which position the push buttons or keys **41—42** cannot be operated by reason of the fact that the perforations **86** in the plate **40** are at this time disposed out of vertical alignment or registration with the stems **41** of the keys **42**.

The web-advancing push button or slide bar **54—79** is returned or raised into its normal or full line position (Fig. 3) by action of the resetting spring **75**, and when in this position the member **54—79** cannot be further operated until the member **49** is moved (left to right, Fig. 4) so as to move the latch dog **53** out of latching engagement with the notched portion **81** in the slide bar **54**, and the member **49** and associated parts cannot again be operated until another coin is inserted into the coin slide **12** and the latter is operated.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention what I claim as new and desire to protect by Letters Patent is:

1. In an amusement apparatus, the combination of: a cabinet, a web of penetrable material in said cabinet; a plurality of members movably mounted in said cabinet and selectively engageable with said web for perforating the same; and means for advancing the said web so as to move the portion of the same perforated by a preselected one of said members into position to be seen.

2. In an amusement apparatus, the combination of: a cabinet; a web of material in said cabinet; a plurality of members movably mounted in said cabinet and having a portion engageable with said web; and means for advancing said web so as to move the portion of the same engaged by a preselected one of said members into position to be seen.

3. In an amusement apparatus, the combination of: a cabinet including a wall having a sight opening formed therein; a web of material in said cabinet; a bank of members movably mounted in a wall of said cabinet and selectively engageable with said web; and means including a member movably mounted in a wall of said cabinet for advancing the said web so as to move the portion of the same engaged by a preselected one of said bank of members into registration with said sight opening.

4. In an amusement apparatus, the combination of: a cabinet including a wall having a sight opening formed therein; a web of penetrable material in said cabinet; a bank of members movably mounted in a wall of said cabinet and selectively engageable with said web for perforating the same; and means including a member movably mounted in a wall of said cabinet for advancing said web so as to move the portion of said web perforated by a preselected one of said members into registration with said sight opening.

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