

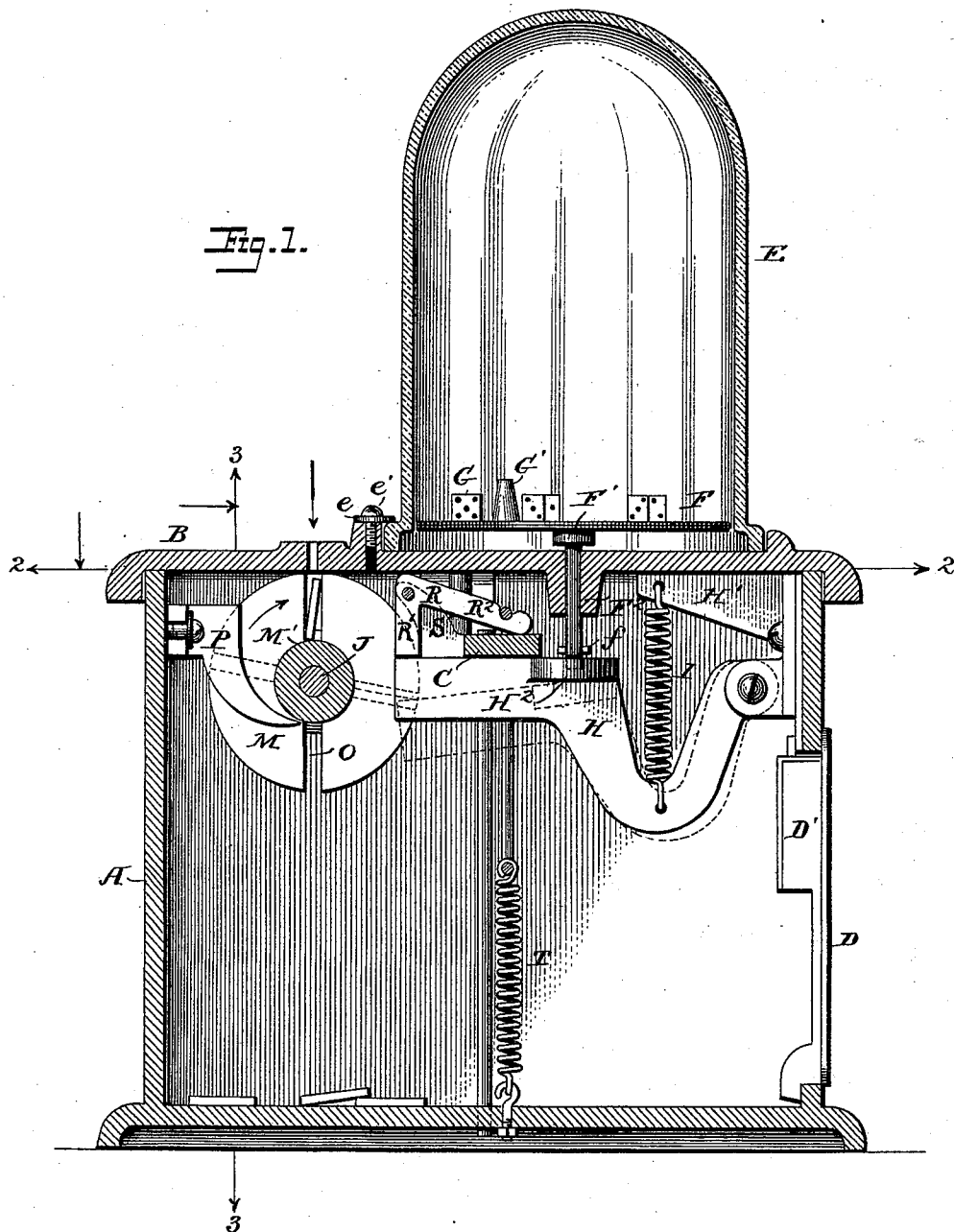
(No Model.)

2 Sheets—Sheet 1.

W. R. POPE.
COIN CONTROLLED DICE MACHINE.

No. 498,363.

Patented May 30, 1893.



Witnesses
John G. Hinkel
A. N. Dobson

Inventor
Wm R Pope
By *Foster Freeman*
Attorneys

(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

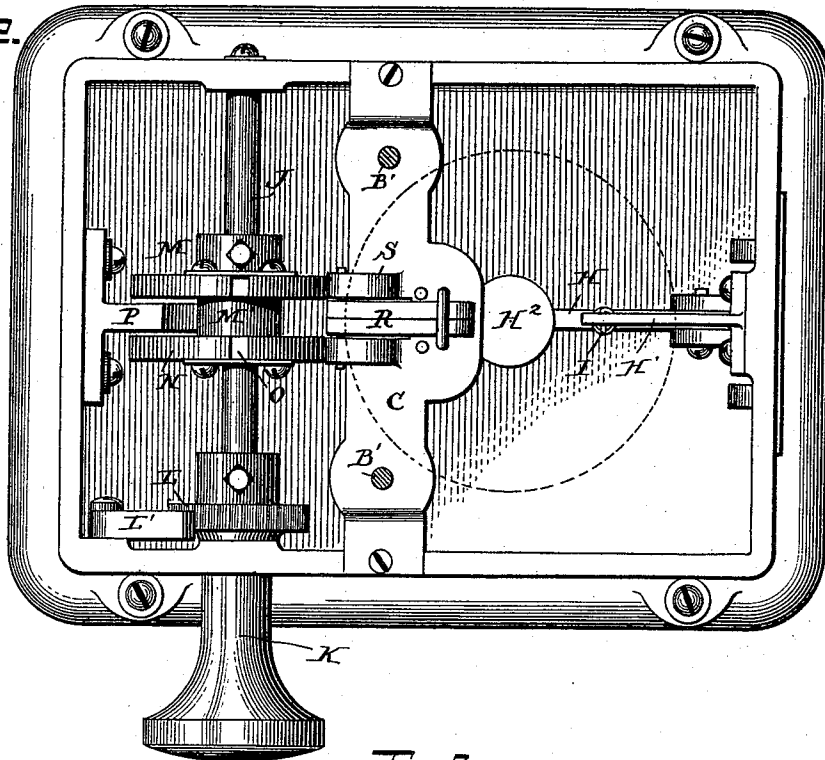
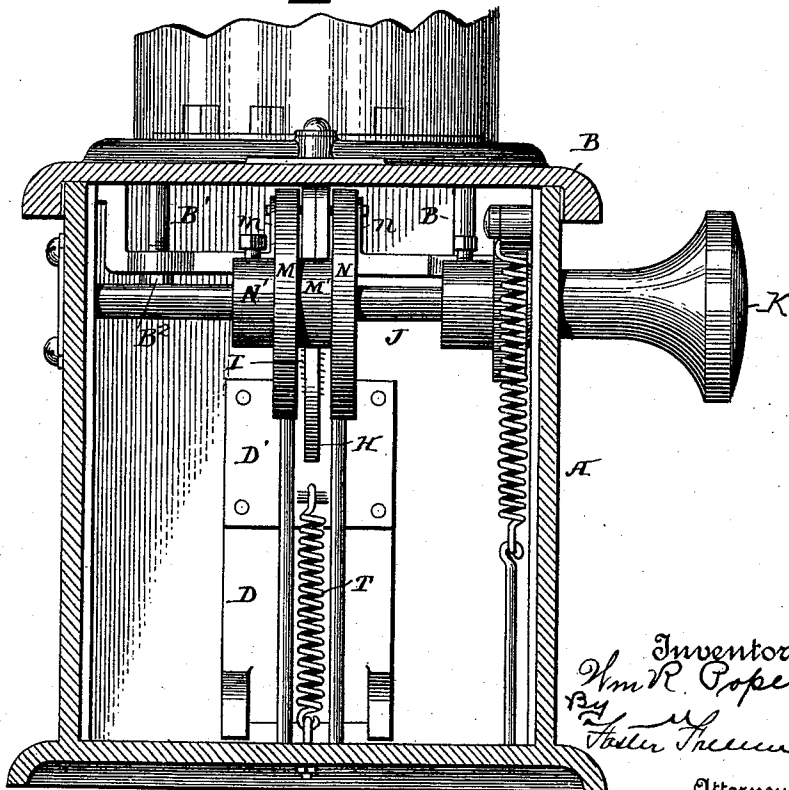


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM R. POPE, OF NEW YORK, N. Y., ASSIGNOR TO THE AUTOMATIC
MANUFACTURING COMPANY, OF SAME PLACE.

COIN-CONTROLLED DICE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 498,363, dated May 30, 1893.

Application filed January 5, 1893. Serial No. 457,312. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. POPE, a citizen of the United States, residing in New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Coin-Controlled Dice-Machines, of which the following is a specification.

My invention relates to a coin operated apparatus, and while it may be applied to many and various devices which are adapted to be controlled by a coin or similar token, I have shown it applied to a coin operated game apparatus, and it has for its object to provide an improved apparatus which shall be simple and cheap of construction, which shall be positive in its operation and free from tampering, and which shall operate only when the proper token is applied to the device. And to these ends my invention consists in the various features of construction and arrangement, and having the mode of operation substantially as hereinafter more particularly pointed out.

Referring to the accompanying drawings, Figure 1, is a longitudinal vertical section of a device embodying my invention. Fig. 2, is a horizontal section on the line 2—2, Fig. 1. Fig. 3, is a transverse section on the line 3—3, Fig. 1.

Heretofore many and various devices have been suggested in which a coin or other similar token is deposited and which controls some sort of mechanism operating to dispense certain articles, to produce certain effects, and generally to accomplish something which cannot be accomplished by the mechanism without the proper deposit of the token. And while some features of my invention may be applied to many and various kinds of devices operating for various purposes, I have shown it embodied in a game apparatus in which dice or other devices are automatically manipulated on deposit of the proper token. And while I prefer to embody my invention in such a device as that illustrated, it will be understood that I do not limit myself to the construction and arrangement shown.

The apparatus embraces a case or receptacle A, which is preferably of metal and cast or molded in one piece, although of course it can

be otherwise arranged and this case is closed by a cover B, which may be secured in any way, preferably by attachments within the case, as for instance, the screw threaded bolts B', cast or otherwise secured to the cover and secured to the case by nuts, as B², the bolts passing through a suitable projection or cross bar C. The case is also preferably provided with an inclosing door D, provided with a suitable lock D', and forming the only means of access to the interior of the case.

In the present embodiment of my invention I mount upon the cover B, a dome piece E, which is preferably of glass and is secured in position by any suitable means, as the washers and screws e, e', projecting over a flange on the bottom of the dome and by means of which it is securely held in position. Arranged within this dome is a platform F, preferably of substantially the contour of the cross section of the dome and this platform is mounted on a suitable rod F', which projects through an opening in the cover B, and this rod is preferably provided with a pin or stop f, to limit the movement of the platform when operated in the manner hereinafter described, and the case is provided with an inwardly projecting boss to furnish a more substantial bearing for the stop.

Placed on the platform are the dice G, or other suitable devices, as for instance, the blocks G', which are shown in the form of a frustum of a cone. Of course it will be understood that any other suitable devices may be mounted on the platform according to the purposes or objects of the apparatus. This platform is arranged to be operated under certain conditions to agitate the dice and in the present instance, I have shown means for causing the platform to move quickly in a vertical direction, and under the impact of a blow, and to accomplish this I have shown a lever H, which is mounted on a suitable pivoted support H', secured to the interior of the case, and it is provided with a spring I, or other actuating mechanism, which normally holds the lever against a suitable stop, in this instance, the cross piece of platform C. The pin F', also normally rests upon the face of the lever which is preferably expanded, as shown at H²,

Fig. 2, so as to give a sufficient bearing for the pin. This lever is controlled and operated directly by a coin or other token, and in order that this may be accomplished, I mount
 5 in the case a suitable shaft J, having a knob K, or other suitable means projecting outside the case, whereby the shaft can be operated. Mounted on the shaft is a ratchet wheel L, and arranged to engage the wheel is a stop or
 10 pawl L', which will permit the shaft to turn freely in one direction but prevent it being turned in the opposite direction. Also mounted on this shaft is the coin carrier and this consists essentially of two disks M, N, secured
 15 to the shaft and having one or more slots O, radially arranged in the disk. While these disks may be variously constructed, I find it convenient to make them as best indicated in Fig. 2, in which both disks M and N, are
 20 provided with integral hubs or bearings M', by turning or cutting away the material between the disks and the hub between the disks, forms a resting place for the coin or token when placed in the slots. A boss or collar N'
 25 may also be formed integral with the disks to secure them to the shaft. The outer sides of these disks are preferably provided with some retaining means, as the plates *m*, *n*, which practically close the outer edges of the slots
 30 and it is evident that instead of making separate pieces attached to a disk, a web or fin may be formed integral therewith, the slots not extending clear through the periphery of the disk. Of course the size of the disk and
 35 the slots therein will be of proper proportion to receive the coin to be used and it will be seen that the coin is supported in the slots preferably with its edge resting on the hub and its outer edges held in the slots in the
 40 disk.

The coin holder and carrier are provided with some suitable ejector to discharge the coin or token after it has performed its function and I have shown a curved arm P, secured to the
 45 side of the platform and extending into the opening or recess between the adjacent disks, so that its sharp point will enter between the coin and the hub and forcibly eject the coin if it does not fall by gravity. This coin carrier is arranged in suitable relation with the
 50 lever H, so that when the carrier is rotated without a coin, the lever will not be operated upon, but when the suitable and proper coin is in position in the slot the coin will
 55 impinge upon the lever and operate it and in the present instance it will force it against the tension of the spring I, and when the coin passes the end of the lever will allow the lever to quickly and positively resume its normal position under the tension of the spring, and in so doing, impinge upon the rod F', forcibly and percussively lifting the platform F, and throwing the dice or other devices thereon to the top of the dome E, from whence
 60 they will fall upon the platform as it resumes its normal position. It will thus be seen that the coin or token itself is made the medium

of operating the lever or other device, and that while so operating it is positively held with its edges in the slots of the two disks
 70 and the central or intermediate portion of the coin will operate the lever. If, for instance a paste-board or other article, not a proper coin, is placed in the slot, it will be seen that the lever will not be operated as the tension
 75 of the spring is sufficient to mutilate the disk of paste-board or similar material and destroy it, and further, the end of the lever passing through the groove or space between the disks tends to keep it clear from paper or
 80 other foreign substances which may be surreptitiously inserted into the coin carrier. The coin will not be mutilated or injured although it is subjected to considerable pressure as it will be seen that it is supported, on
 85 both sides of the portion impinging on the lever by the slots in the disks.

While the coin and carrier may be arranged in the manner described to operate directly upon the lever or other device, I preferably
 90 provide a trip lever or what may be termed a tumbler and I have shown one or more crank levers R, pivoted in bearings S, having their short arms R', arranged to normally move through the space between the disks
 95 while their long arms R², are under tension, as through the medium of the spring T, and its connections, the spring being secured to the bottom of the case. It will thus be seen that before the coin can operate upon the lever it must impinge upon the tumbler or tumblers R, and move them out of the way, and this is an additional safe-guard to the fraudulent operation of the device. When, however, the
 100 tumblers are operated and tilted to the position shown in dotted lines, the coin will impinge upon the lever H, and operate it in the manner before indicated.

What I claim is—

1. In a coin operated mechanism, the combination with a coin carrier comprising a hub having two projecting disks provided with open slots extending to the hub; of a movable platform, a spring-actuated lever for operating the platform one end of which lever extends
 110 into the coin carrier between the disks and arranged to be operated by the coin; substantially as described.

2. In a coin operated device, the combination with a movable platform mounted on the case and having a rod projecting into the case; of a spring actuated lever mounted in the case and arranged to impinge on the rod, and a coin-carrier comprising a hub and projecting disks having open slots to receive the coin, the free end of the spring-actuated lever being arranged to project between the disks of the coin-carrier and to be actuated thereby; substantially as described.

3. In a coin operated device, the combination with a movable platform mounted on the case and having a rod projecting into the case; of a spring-actuated lever pivoted to the side of the case and arranged to impinge on the

rod, a coin-carrier comprising a hub and projecting disks having open slots to receive the coin, and a space between the disks to receive the end of the lever, a pivoted tumbler also
5 extending in said space and bearing on the lever, and a spring bearing on said tumbler; substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM R. POPE.

Witnesses:

ADOLF T. SCHNEIDER,
GEORGE R. SWANTON.