Jan. 27, 1931. F. L. MILLS 1,790,055

COIN CONTROLLED PUNCH BOARD

Filed Dec. 30, 1926 6 Sheets-Sheet 1

Fig. 1

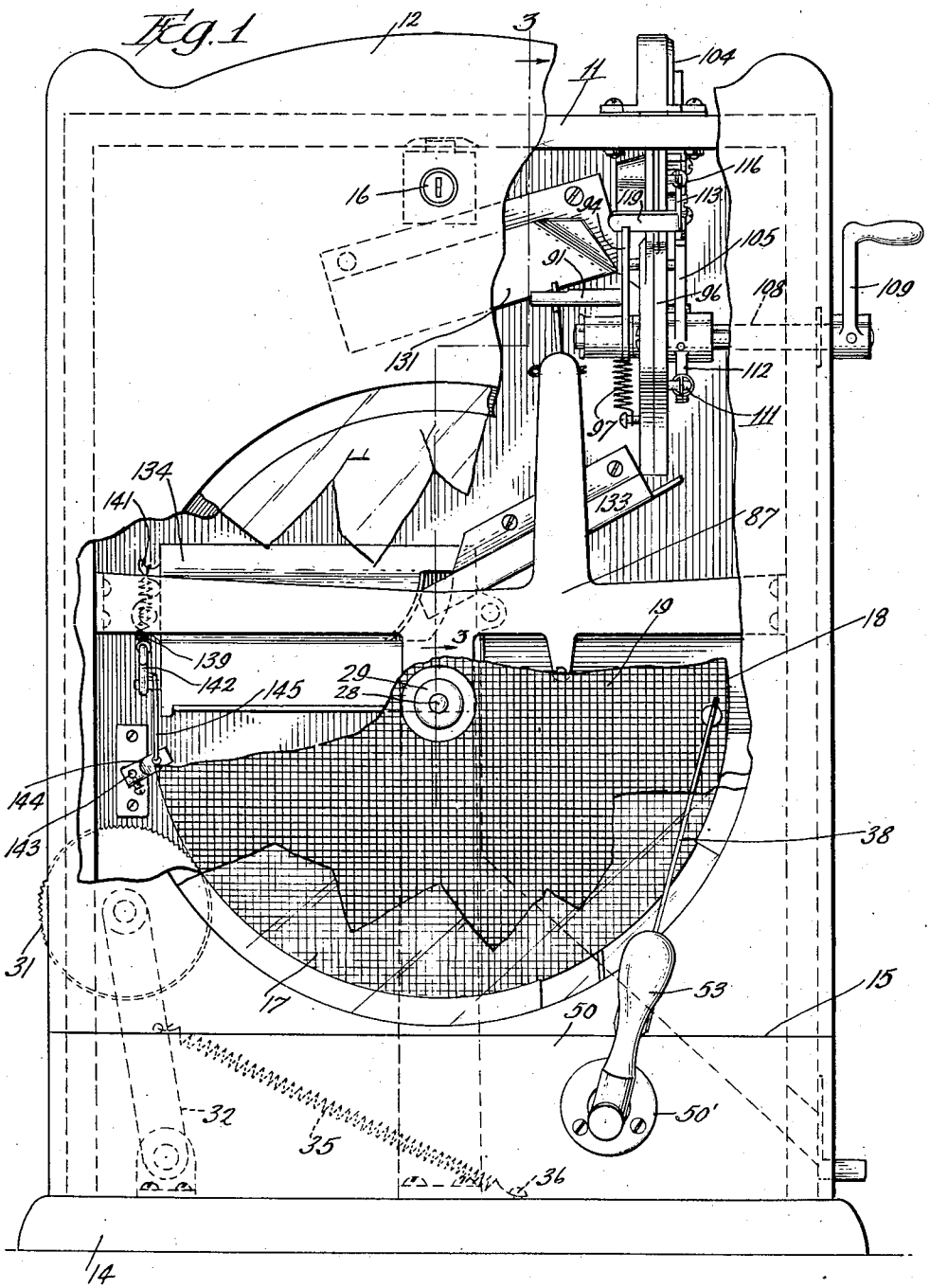

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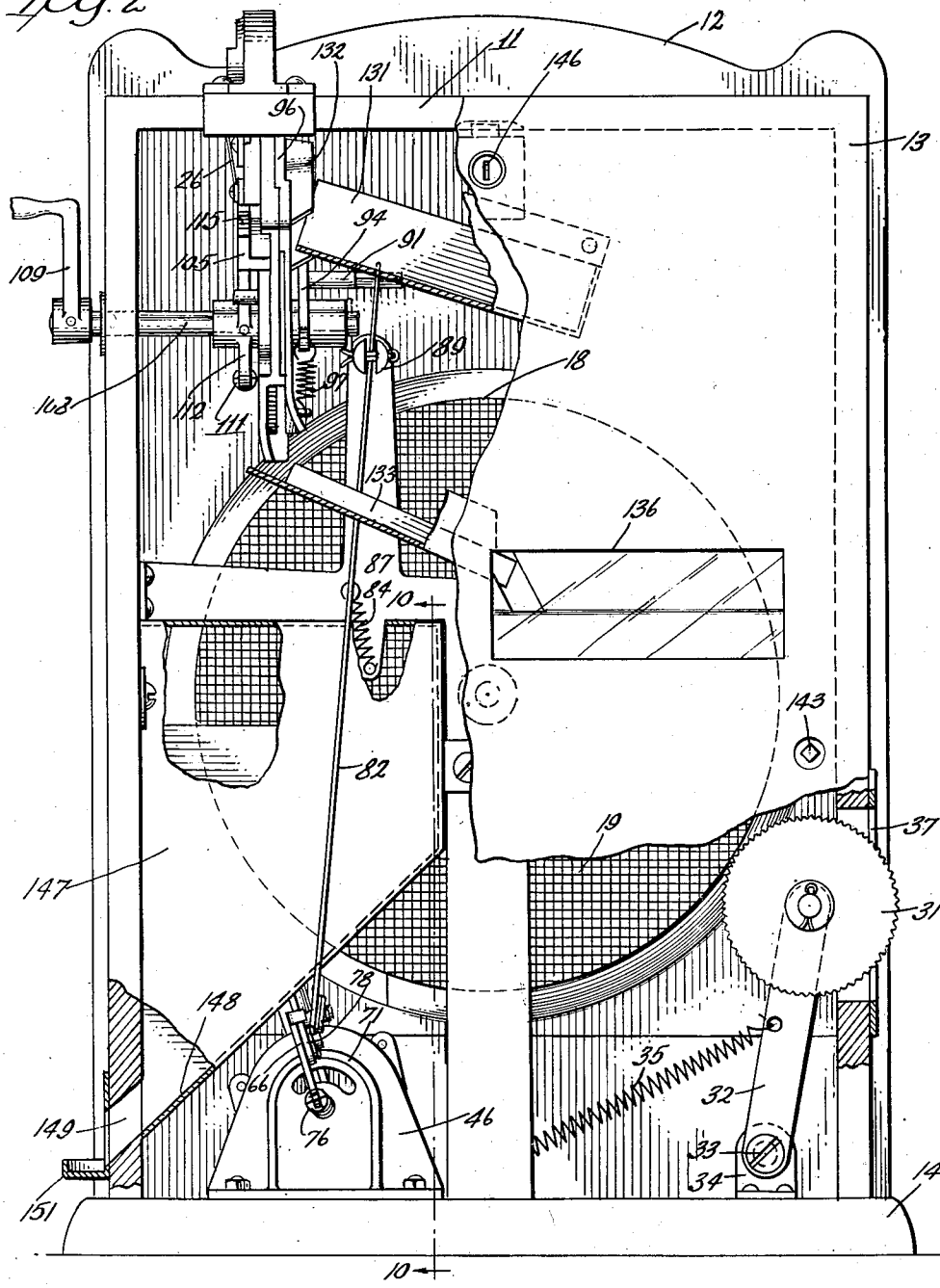
Fig. 2



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COIN CONTROLLED PUNCH BOARD

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Fig. 3

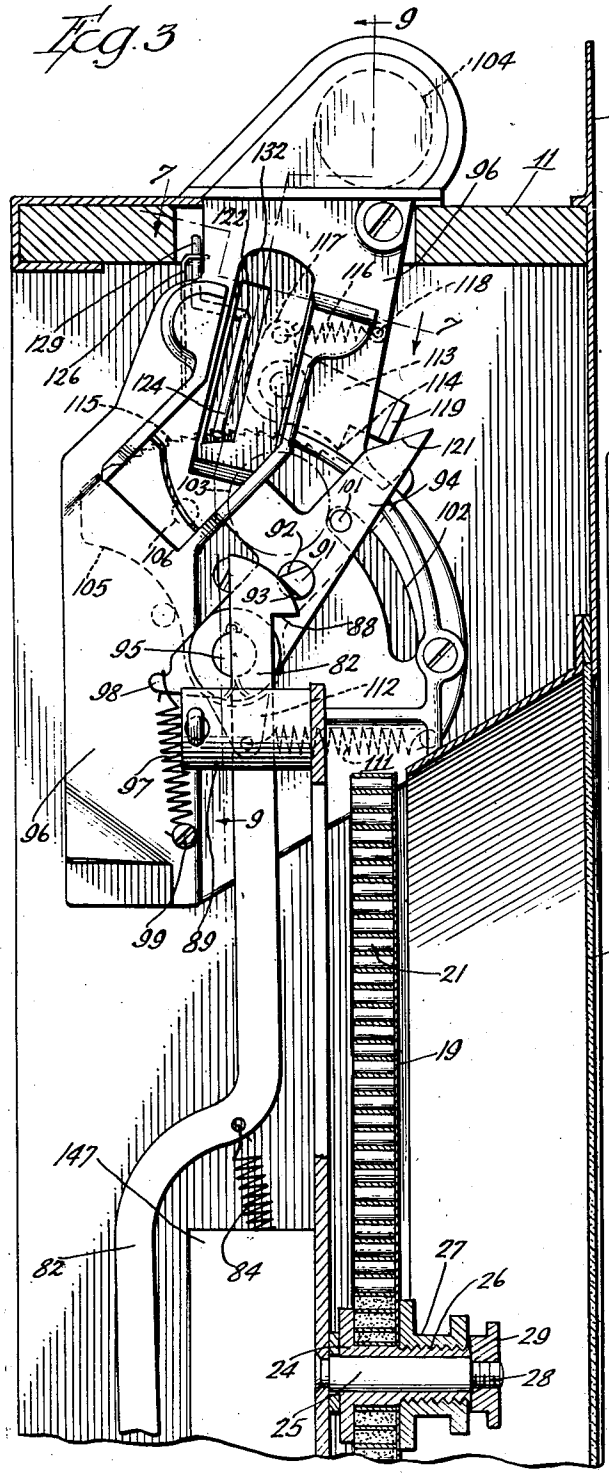

Fig. 4

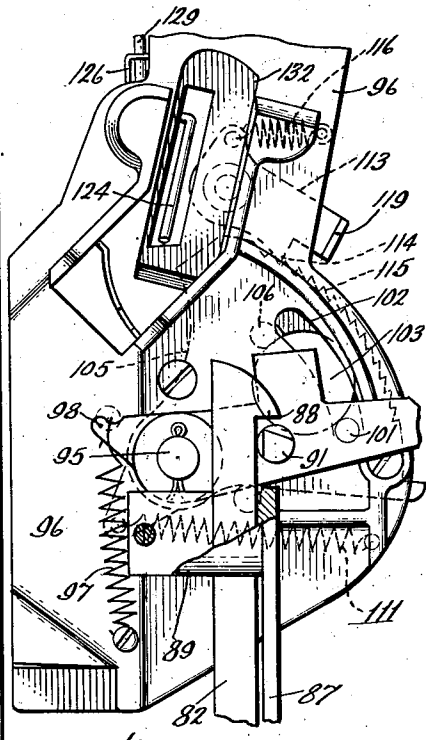

Fig. 5

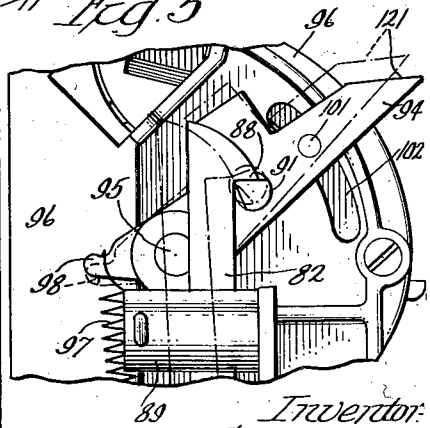

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Fig. 6

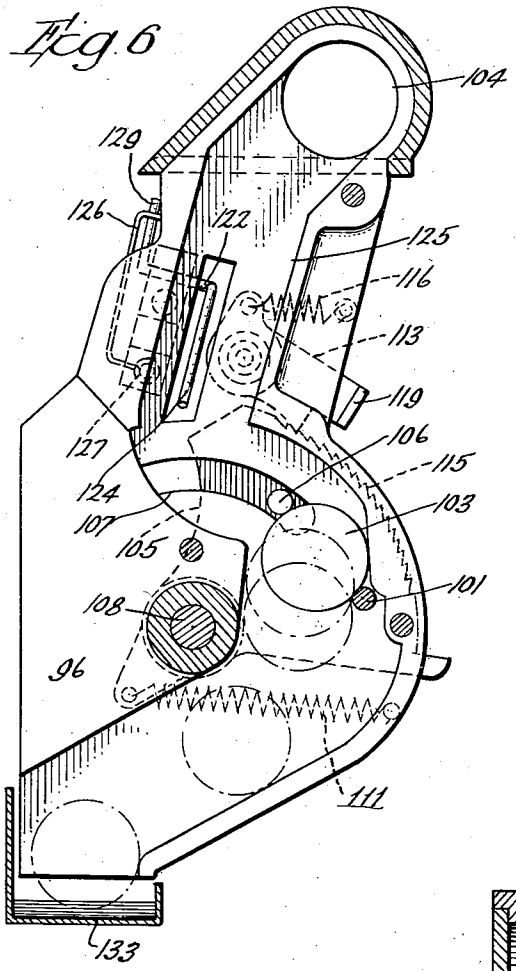

Fig. 7

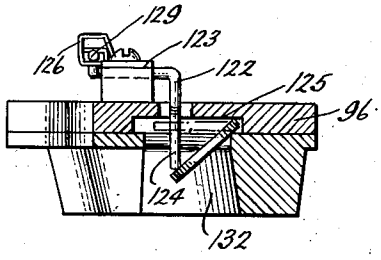

Fig. 8

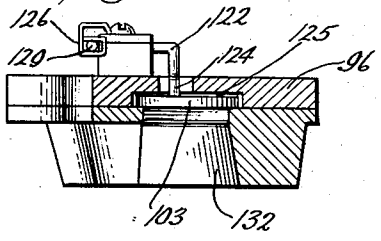

Fig. 9

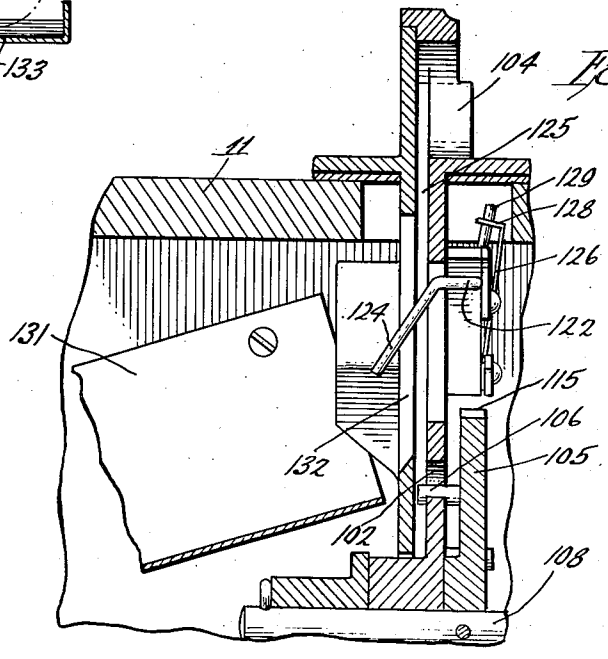

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Fig. 10

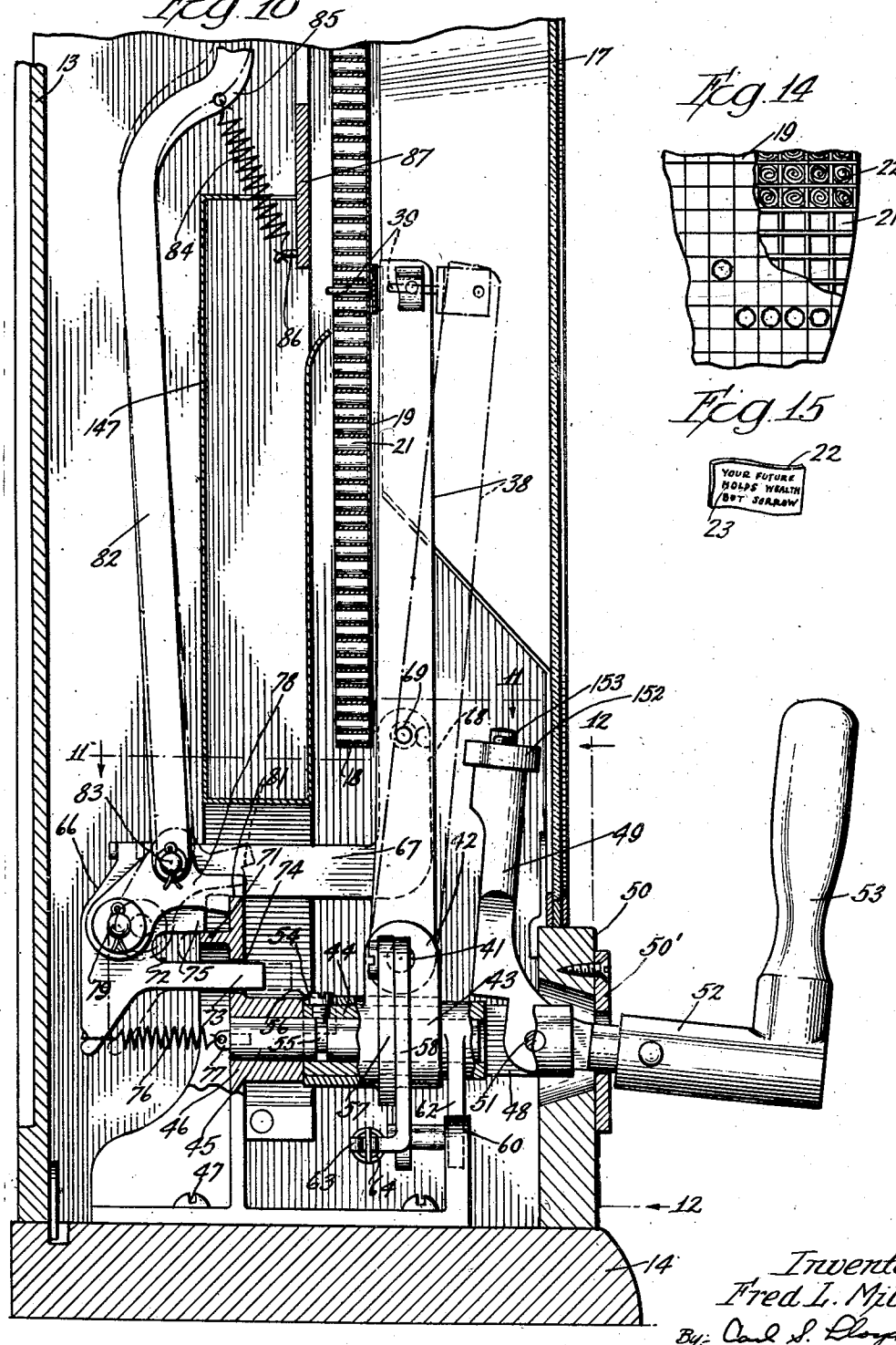

Fig. 14

Fig. 15

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COIN CONTROLLED PUNCH BOARD

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Fig. 11

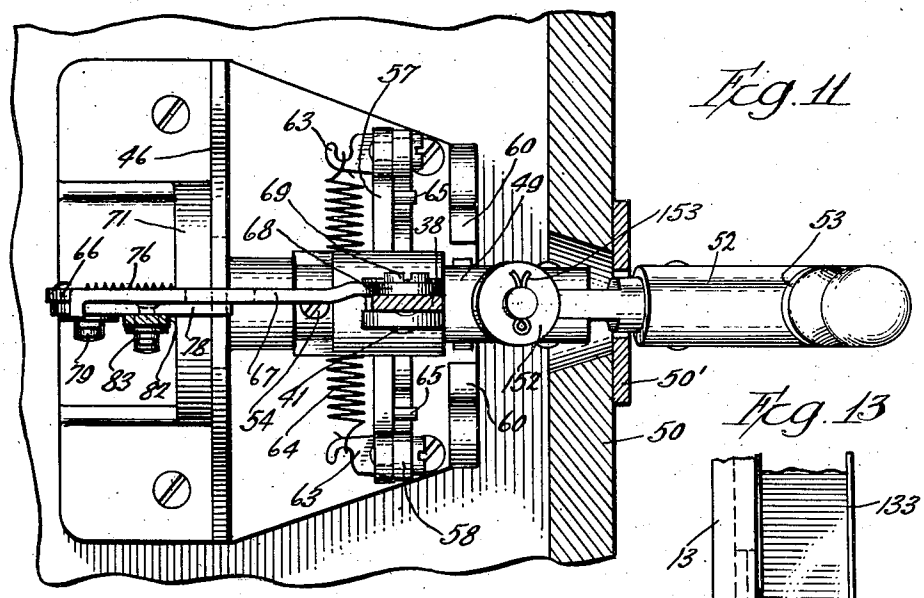


Fig. 13

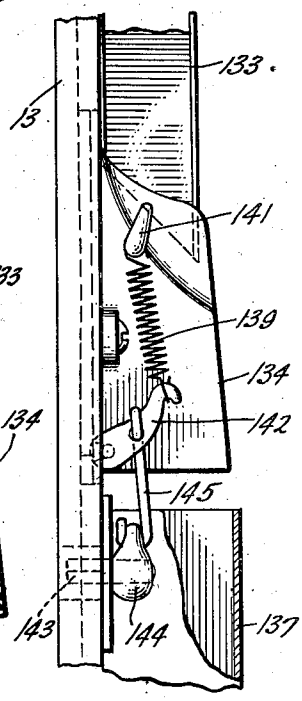
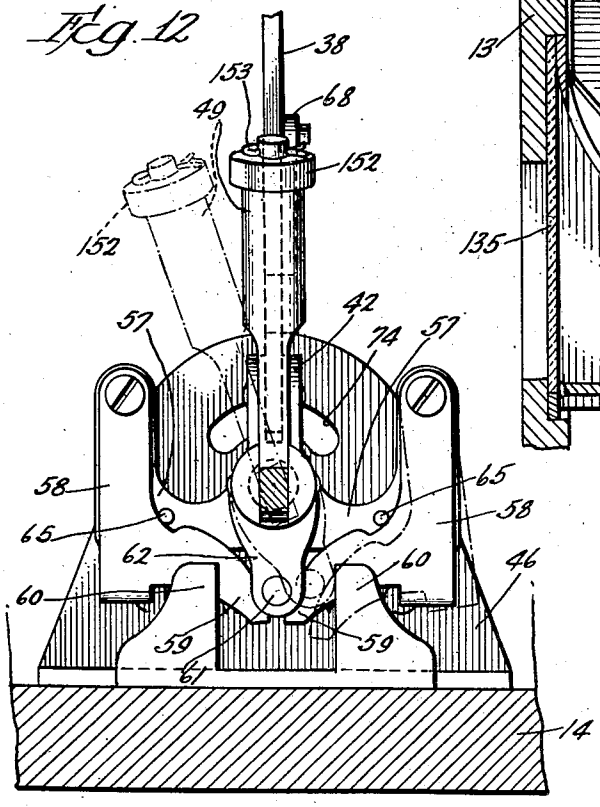


Fig. 12



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UNITED STATES PATENT OFFICE

FREL L. MILLS, OF OAK PARK, ILLINOIS, ASSIGNOR TO MILLS NOVELTY COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS

COIN-CONTROLLED PUNCH BOARD

Application filed December 30, 1926. Serial No. 157,892.

This invention relates to coin operated machines and has for its primary object the provision of a punch board in conjunction with operating mechanism controlled by the insertion of coins in the machine.

Among the uses to which the machine may be put is to dispense fortune telling slips, or like indicia bearing media, which may be placed in the pockets of the board and forced out by the operator of the punch in manner to be hereinafter described.

Punch boards, so far as I am aware, have not heretofore been associated with any mechanism for operating the same, and it is the principal object of my invention to provide a mechanism wherein the punch board is associated with coin-controlled operating elements operable only when a proper coin has been inserted to establish operative connection between certain parts of the mechanism.

An important feature of the invention is the provision in a device of this character of means for locking the punch, or operating element, in inoperative position after each operation of the machine and until a coin is inserted, which then permits the unlocking of said member so that it may be manipulated to again punch the board, whereupon the mechanism is automatically rendered inoperative until another coin has been inserted.

A further object of the invention is the provision in the machine of a yielding connection between the manually manipulative member and the punch, whereby operation of said member does not affect the punch or occasion any damage to the mechanism when said punch is in its locked or inoperative position.

Another feature of the invention is the provision of means for arranging the punch board and punch in any selected relation, so that any part of the board may be readily punched in accordance with the selection of the operator.

Numerous other objects and advantages of the invention will be apparent as it is better understood from the following description, which, taken in connection with the accompanying drawings, discloses a preferred embodiment thereof.

Referring to the drawings,

Figure 1 is a front elevation of a machine in which my invention is embodied, parts thereof being broken away for convenience in illustration;

Fig. 2 is a rear elevation of the machine, also broken away and certain parts being shown in section;

Fig. 3 is an enlarged sectional view, taken substantially on the section line 3—3 in Fig. 1;

Figs. 4 and 5 are elevational detail views of the coin slot and associated mechanism, the latter being shown in the respective figures at different stages in the operation;

Fig. 6 is an enlarged elevational and sectional view, showing the form of the coin slot and the manner in which operative connection of certain parts of the mechanism is established by the coin;

Figs. 7 and 8 are detail sectional views taken substantially on the section line 7—7 in Fig. 3 and showing the operation of the ejecting device for spurious or improper coins;

Fig. 9 is a sectional view taken substantially on the section line 9—9 of Fig. 3;

Fig. 10 is an enlarged sectional view taken substantially on the line 10—10 in Fig. 2;

Fig. 11 is a sectional and plan view taken substantially on the line 11—11 in Fig. 10;

Fig. 12 is a sectional and elevational view, taken substantially on the line 12—12 in Fig. 10;

Fig. 13 illustrates the coin receptacle and the means for discharging the coins therefrom;

Fig. 14 is a detail view of a portion of the punch board, a part of the front sheet thereof being broken away for clearer illustration; and

Fig. 15 illustrates the type of indicia bearing media which may be contained in the pockets of the board.

Upon said drawings I have shown, for illustrative purposes only, a preferred form of the invention, in which the reference character 11 indicates the outer frame, or casing,

of the machine, to which is applied a front plate 12 and a back 13, said parts being all arranged upon a base member 14 in a suitable or preferred manner. The front plate 12 is formed in two sections, the upper part thereof above the line 15 being removable and adapted to be locked in place by means of a lock 16. Said removable section is provided with a glass panel 17, behind which there is mounted for rotation a punch board 18, consisting of a front sheet 19 and a plurality of pockets 21 behind said sheet, said pockets being adapted to contain slips of paper 22, or other means containing indicia, such as is indicated at 23 in Fig. 15. Said board is provided with a central hub member 24 rotatably mounted upon a stud 25, said hub member being threaded at 26 to receive a clamping nut 27 holding the board in place and the outer end of the stud 25 being threaded, as indicated at 28, to receive a lock nut 29.

For the purpose of rotating the board 18, I provide a serrated, or reticulated disk 31, mounted upon an arm 32, pivoted at 33 to a bracket 34 secured to the base, said disk being held in engagement with the periphery of the board by means of a spring 35, secured at one end to said arm 32 and at the other end to the base member 14, as indicated at 36. Said disk protrudes through an opening 37 in the side of the frame or casing 11 and is thus engageable by the thumb for rotating the board 18 to any desired position.

The board is adapted to be punched by means of a member 38 mounted at the front thereof, said member carrying a punch 39 at the upper end thereof and being adapted to be manipulated in manner which will now be described. Referring particularly to Figs. 10 to 12, it will be noted that said member 38 is pivotally secured at 41 to an upwardly extending bifurcated portion 42 of a collar 43, which is mounted upon a sleeve 44 carried upon a fixed shaft 45 secured within a frame part 46, which is rigidly secured to the base, as indicated at 47. Said sleeve 44 has an integral extension 48, which is slotted to receive an actuating member 49, pivoted at 51 within said extension 48, said actuating member 49 being rigidly secured within a sleeve part 52 of a manually manipulative handle 53 arranged on the exterior of the machine at the lower front thereof. The collar 43 and sleeve 44 are mounted for limited relative rotary movement, such relative movement being restricted by means of a screw 54, set in the sleeve 44 and having the point thereof disposed in a groove 55 in the shaft 45 and the head thereof disposed in a slot or cut-out 56 in the collar 43.

Integral, oppositely extending arms 57 are provided upon the collar 43, and pivotally secured to each of said arms is a member 58, having an inwardly extending, downwardly curved portion 59 adapted to engage a stud 61 on a downwardly extending projection 62 upon the sleeve 44. Said members 58 are provided with rearwardly extending hooked portions 63, connected together by means of a spring 64, and movement of said members toward each other is limited by means of stop pins 65 upon the arms 57. This spring connection causes the collar 43 and sleeve 44, carrying respectively the punch member 38 and the actuating member 49, to be moved together so long as the member 38 is unobstructed, but permits the sleeve 44 and therewith the actuating member 49, to turn relatively to said punch member 38 (as shown in dotted lines in Fig. 12), when said member 38 is obstructed by insertion of the punch 39 thereon in a pocket of the punchboard, as shown in full lines in Fig. 10. The force of the spring 64 is sufficient to cause the parts to move in unison so long as said member 38 is free, but when it is obstructed, the member 58 at the side opposite that to which the handle is moved yields under pressure of the stud 61 on the member 62, rigid with the sleeve 44, and permits the relative movement above described. Stop lugs 60 are provided upon the bottom of the frame part or bracket 46 to obstruct the movement of the projection 62 on the sleeve 44, thus limiting the movement of the handle and associated parts to a predetermined arc.

The mechanism whereby the member 38 is locked against manipulation and released by the insertion of a coin will next be described, reference being had in this connection particularly to Figs. 3 to 5 and Fig. 10 of the drawings. A plate 66 is connected with the punch member 38 by means of an arm 67, having an upwardly extending end portion 68, pivotally connected at 69 with said member 38, said plate 66 being mounted upon the frame or bracket 46 in such manner as to permit relative movement with respect thereof, as will presently appear. The rear side of said bracket 46 is provided with a flange 71 and the plate 66 has a recess 72 therein within which said flange 71 is disposed. The lower part 73 of said plate is extended through a recess 74 in the bracket 46 and the upper part 75 of said plate rests upon the flange 71. The lower end of the plate is connected by means of a spring 76 with an eye 77 projecting from the rear of the shaft 45, or from the bracket 46. Said spring tends to urge said plate toward the right, viewing Fig. 10. A latch member 78, pivoted upon said plate 66 at 79 has a cut-out 81 in one corner thereof, whereby it is adapted to engage the upper edge of the bracket 46, as shown in Fig. 10. A trip bar 82 is pivotally connected to said latch member 78 at 83 and is normally held in its down position by means of a spring 84, connected at one end to a curved portion 85 of said trip bar and at the opposite end to a stud 86 upon a frame part 87. When the

punch member is in the full line position shown in said Fig. 10, with the latch member engaged, as shown, manipulation of the handle 53 is ineffective to operate the punch member, which remains locked by engagement of the punch 39 within a pocket of the board. When a coin is inserted, however, the trip bar 82 is actuated in manner which will next be described to disengage the latch member 78 from the upper part of the bracket 46, permitting said latch member to assume the dotted line position shown in Fig. 10 and allowing the plate 66 and member 38 to move to the dotted line position shown in said Fig. 10. The punch member may then be manipulated within the limits of its rotary movement and the punch board turned until a desired pocket thereof is selected, whereupon the handle 53 is rocked upon the pivot 51, causing the actuating member 49 to press the member 38 inwardly to the full line position of said Fig. 10, whereupon the latch member 78 engages the bracket 46, as shown, and the device cannot again be operated until the trip bar 82 is actuated to again disengage said latch member from said bracket.

Referring now to Figs. 3 and 4, it will be observed that the upper end of said trip bar 82 is provided with a shoulder 88 and is mounted in a slotted, horizontal post 89 secured to the frame. As stated above, it is normally held in the down position by the spring 84, but is adapted to be actuated through operation of the coin controlled mechanism which includes a trip pin 91, the outer end of which is formed with converging, flattened surfaces 92 and 93. Said pin is carried by a lever 94, pivoted at 95 to a coin chute frame 96 and normally held in raised position by means of a spring 97, connected at one end with a tail part 98 on said lever and at the opposite end to the frame 96, as indicated at 99. Said lever 94 carries also a stud 101, extending oppositely from the pin 91 and disposed within a slot 102 in the coin chute frame 96. Said stud extends into the coin slot, as shown in Fig. 6, and is adapted to be engaged by a coin 103 when the latter is inserted in said chute through a receiving opening 104. An actuating member 105, mounted upon the coin chute frame 96 at the opposite side thereof from the lever 94, is provided with a stud 106, extending through a slot 107 and into the coin chute, the normal position of said member 105 being such that the stud is disposed behind the coin when the latter is inserted. Said member 105 is carried by the shaft 108, to the outer end of which is connected a crank handle 109, disposed on the outside of the casing. Manipulation of said crank handle after a coin has been inserted serves to move the actuating member 105, thereby causing the stud 106 to engage behind the coin, imparting movement thereto which is in turn imparted to the stud 101 and lever 94, carrying the latter downwardly until the outer end of the pin 91 is arranged beneath the shoulder 88 on the upper end of the trip bar 82. Upon release of the crank handle 109, after the same has been turned to the full extent, the member 105 is restored to normal position by means of a spring 111, connected at one end to the coin chute frame and at the other to a tail part 112 on said member 105. The lever 94 at this time has already been restored to the up position by means of the spring 97 and in this movement lifts the bar 82, as shown in Fig. 5, until the turning of the pin 91 causes the shoulder 88 on said bar 82 to slip off, as shown in dotted lines in Fig. 5, the lateral movement of said bar 82 being permitted by the slot in the post 89. Referring again to Fig. 10, it will be noted that this action disengages the latch member 78 from the upper edge of the bracket 46, permitting the parts to assume the positions shown in dotted lines in said Fig. 10 preparatory to further manipulation of the punch member 38 by means of the handle 53.

A ratchet device is provided for preventing return of the member 105 to normal position until after it has been moved to the full extent, this device comprising a pivoted member 113, having a point 114 engageable with teeth 115 on the outer edge of said member 105. A spring 116, connected at one end to a tail part 117 of said member 113 and at the opposite end to the coin chute frame at 118, tends to hold said member 113 against the toothed portion of the member 105. Said member 113, however, has a right angle extension 119 at the end thereof adapted to be engaged by a beveled portion 121 of the lever 94 when the latter is restored to normal position, thus disengaging the ratchet and permitting the member 105 to return to normal position. The engagement of the lever 94 and the part 119 of the member 113 is clearly shown in Fig. 3.

For the purpose of ejecting spurious or improper coins from the coin slot in the event that it is attempted to operate the machine therewith, I provide a device shown clearly in Figs. 6 to 9 of the drawings. An ejector pin 122, pivotally mounted in a bracket 123, has an angularly disposed portion 124 extending across the coin slot, indicated at 125, and is normally held in the position shown in Fig. 9 by means of a wire spring 126, secured at its lower end to the bracket 123, as indicated at 127, and having its upper end 128 in engagement with an upward extension 129 on the member 122. In the event that a coin is inserted which is smaller than that intended to operate the machine, the same is ejected, as shown in Fig. 7. If, however, a coin of proper size be inserted, the weight thereof readily moves the member 124 out of the way against the tension of the light spring 126, thus per-

mitting the coin to pass unobstructed into position to be engaged by the stud 106 of the actuating member 105 upon manipulation of the latter. A receptacle 131 is provided upon the back member 13, adjacent a spurious coin discharge opening 132 in the coin chute frame, and a chute 133 is provided beneath the lower end of the chute 125, the coins being directed into said chute as shown in Fig. 6 of the drawings and thence into a coin box 134 secured to the interior of the back member 13 of the casing and having a glass rear wall 135 extending across an opening 136 in said back member 13. The coins deposited in said box 134 are thus visible from the back of the machine and are adapted to be transferred when desired to a relatively large receptacle 137, disposed beneath said box 134. For the purpose of effecting such transfer of the coins, the bottom 138 of the coin box, which is hinged at one side and normally held closed by means of a spring 139 engaged at one end with a fixed part 141 on the exterior of the coin box and at the other end with a hooked member 142 rigid with the hinged side of the door and extending forwardly therefrom, is adapted to be turned upon its hinge by means of a socket key, engaging a square stud 143 to which a lever 144 is secured, said lever being connected by a wire 145 with said member 142. The back 13 is removably secured to the frame by means of a lock 146 and when it is desired to remove the coins, or gain access to the mechanism, said back member may be readily removed by one possessing a key.

Referring now to Figs. 2 and 10, it will be observed that when the punch member 38 is actuated, a strip of paper or other contents of the pocket of the board, as indicated in Figs. 14 and 15, is forced out of the board and into a receptacle 147, the lower side of which is inclined, as indicated at 148, and is in registration with an opening 149 in the casing 11, a tray 151 being positioned beneath said opening and adapted to receive the paper strip, or other indicia bearing medium after the same has been punched out of the board.

While it is believed that the operation will be evident from the foregoing description and explanation of the parts of the mechanism, it may be briefly reviewed as follows. The normal position of the member 38 may be taken to be that shown in full lines in Fig. 10, in which the punch 39 is disposed in one of the pockets of the punch board and said member thus held against swinging movement. Manipulation of the handle 53 with said member in this position merely rotates the actuating member 49, without effect upon said punch member, due to the spring connection between the sleeve 44, carrying said actuating member 49, and the collar 43, carrying said punch member 38. When it is desired to operate the machine, a coin is inserted in the opening 104 and the crank handle 109 manipulated, thereby causing the actuating member 105 to depress the lever 94 with which it is operatively connected by the interposition of a coin between the studs 106 and 101. After the lever 94 has been fully depressed, so that the outer end of the trip pin 91 is disposed beneath the shoulder 88 of the trip bar 82, the coin drops into the coin box and the lever 94 is restored to its up position by the action of the spring 97. This disengages the ratchet 113 and permits the actuating member 105 to be also restored to its normal position through the action of the spring 111. The up movement of the lever 94 causes the trip pin 91 to move the trip bar 82 upwardly and to shift the same sidewise, as shown in Fig. 5, until it is disengaged and the trip pin is disposed thereabove, as shown in Fig. 3. This action disengages the latch member 78 from the upper part of the bracket 46, as shown in Fig. 10, permitting the spring 76 to move the plate 66 toward the right, viewing said Fig. 10, thus moving the punch member to the dotted line position shown in said figure. Said punch member may now be moved laterally in unison with the handle and actuating member 49 and the punch board turned until the punch 39 is arranged at the selected pocket in the board. Said handle 53 is then pressed forwardly, turning upon the pivot 51 and causing the actuating member 49, which carries a head 152 held in place by a cotter pin 153, to force the punch member 38 forwardly, causing the same to punch out the contents of one of the pockets of the board, the latter falling through the passageway 147 and the opening 149 into the tray 151. This action causes the latch member 78 to again engage the upper edge of the bracket 46, thus locking the trip member in the full line position of Fig. 10 with the punch thereof disposed in one of the pockets of the board. The parts then remain in this position until another coin is inserted and the latch member 78 disengaged from the bracket 46 by the action of the trip bar 82, effected through the coin controlled machanism.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention, or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. A punch board machine comprising a casing, a punch board mounted therein, and

a manually controlled punch member operable only upon insertion of a coin in the machine, said punch member being movable at the will of the operator transversely across the board to a selected point on the latter.

2. A punch board machine comprising a casing, a punch board mounted therein, a punch member, means for normally holding said member in inoperative position, and mechanism operable upon the insertion of a proper coin therein to free said punch member for operation, said punch member being movable transversely across the board.

3. A punch board machine comprising a casing, a punch board mounted therein, a punch member, means operable by engagement of the punch member with the board to normally hold said member in inoperative position, and mechanism operable upon the insertion of a proper coin therein to free said punch member for operation.

4. A punch board machine comprising a casing, a punch board mounted therein, a punch member operable only upon insertion of a coin in the machine, and manually operable means for arranging said punch member in desired relation to the board, said punch member being movable transversely across the board.

5. A punch board machine comprising a casing, a punch board mounted therein, a punch member operable only upon insertion of a coin in the machine, and manually operable means for arranging said board in desired relation to the punch member, said punch member being movable transversely across the board.

6. A punch board machine comprising a casing, a punch board mounted therein, a punch member operable only upon insertion of a coin in the machine, means for turning said board to desired position, and manually operable means for moving said punch member in a plane parallel to said board, and transversely thereof to a selected point on the latter.

7. A punch board machine comprising a casing, a punch board mounted therein, a punch member operable only upon insertion of a coin in the machine, and means for arranging said punch member in desired relation to the board, said means comprising a manipulative device having a yielding connection with said punch member.

8. A punch board machine comprising a casing, a punch board mounted therein, a punch member operable only upon insertion of a coin in the machine, and means for arranging said punch member in desired relation to the board, said means comprising a manipulative device having a yielding connection with said punch member and adapted to move the latter in planes respectively parallel to said board and at right angles thereto.

9. A punch board machine comprising a casing, a punch board mounted therein, a punch member operable only upon insertion of a coin in the machine, and means for arranging said board in desired relation to the punch member, said means comprising a device engageable from the exterior of said casing and operatively related to said board, said punch member being movable transversely across the board.

10. A punch board machine comprising a casing, a punch board mounted therein, a punch member operable only upon insertion of a coin in the machine, and means for arranging said board in desired relation to the punch member, said means comprising a serrated disk engageable from the exterior of said casing and yieldably held in engagement with the periphery of said board.

11. A punch board machine comprising a punch board, a punch, means for operating said punch, and means for locking said punch against operation except when a coin is inserted in the machine, said punch member being movable transversely across the board.

12. A punch board machine comprising a punch board, a punch, means for operating said punch, and means for locking said punch against operation except when a coin is inserted in the machine, said locking means comprising a member connected with the punch, means operable by movement of the punch in punching the board for holding said punch interengaged with the board and coin controlled mechanism for releasing said last-mentioned means to permit further operation of the punch.

13. A punch board machine comprising a punch board, a punch, means for operating said punch, and means for locking said punch against operation except when a coin is inserted in the machine, said locking means comprising a member connected with the punch, means operable by movement of the punch in punching the board for holding said punch interengaged with the board and coin controlled mechanism for releasing said last-mentioned means to permit further operation of the punch and means for automatically returning the punch to operative position upon release thereof as aforesaid.

14. A punch board machine comprising a punch board, a punch, means for operating said punch, and means for locking said punch against operation except when a coin is inserted in the machine, said locking means comprising a member connected with the punch, means operable by movement of the punch in punching the board for holding said punch interengaged with the board, coin controlled mechanism for releasing said last-mentioned means to permit further operation of the punch and a spring for automatically returning the punch to operative position upon release thereof as aforesaid.

15. A punch board machine comprising a

punch board, a punch, means for operating said punch, and means for locking said punch against operation except when a coin is inserted in the machine, said locking means comprising mechanism connected with said punch and including a latch automatically operable upon operation of the punch to retain the latter in position to prevent further operation, and coin controlled means for releasing said latch.

16. A punch board machine comprising a punch board, a punch, means for operating said punch, and means for locking said punch against operation except when a coin is inserted in the machine, said locking means comprising mechanism connected with said punch and including a latch automatically operable upon operation of the punch to retain the latter in position to prevent further operation, a fixed element with which said latch cooperates and coin controlled means for releasing said latch.

17. A punch board machine comprising a punch board, a coin-controlled punch mounted for swinging movement and for movement toward and from the board, and a manipulative device operable to effect both of said movements of the punch, said device being mounted for forward pivotal movement and for rotary movement in unison with said punch.

18. A punch board machine comprising a punch board, a coin-controlled punch mounted for swinging movement and for movement toward and from the board, and a manipulative device operable to effect both of said movements of the punch, said device being mounted for forward pivotal movement and for rotary movement in unison with or irrespective of said punch.

19. A punch board machine comprising a punch board, a coin-controlled punch mounted for swinging movement and for movement toward and from the board, and a manipulative device operable to effect both of said movements of the punch, said device comprising a handle, a rotatable member to which said handle is pivotally secured and a punch actuating member rigid with said handle.

20. A punch board machine comprising a punch board, a coin-controlled punch mounted for swinging movement and for movement toward and from the board, and a manipulative device operable to effect both of said movements of the punch, said device comprising a handle, a rotatable member to which said handle is pivotally secured, a punch actuating member rigid with said handle, a collar mounted on said rotatable member, said punch being pivotally secured to said collar, and spring means connecting said rotatable member and collar whereby they may be moved together by manipulation of said handle or said rotatable member may be moved independently of said collar if the punch be obstructed.

21. A punch board machine comprising a punch board, a coin-controlled punch mounted for swinging movement and for movement toward and from the board, and a manipulative device operable to effect both of said movements of the punch, said device comprising a handle, a rotatable member to which said handle is pivotally secured, a punch actuating member rigid with said handle, a collar mounted on said rotatable member, said punch being pivotally secured to said collar, spring means connecting said rotatable member and collar whereby they may be moved together by manipulation of said handle or said rotatable member may be moved independently of said collar if the punch be obstructed and means for limiting the independent movement of said member.

22. A punch board machine comprising a punch board, a coin-controlled punch mounted for swinging movement and for movement toward and from the board, and a manipulative device operable to effect both of said movements of the punch, said device comprising a handle, a rotatable member to which said handle is pivotally secured, a punch actuating member rigid with said handle, a collar mounted on said rotatable member, said punch being pivotally secured to said collar, spring means connecting said rotatable member and collar whereby they may be moved together by manipulation of said handle or said rotatable member may be moved independently of said collar if the punch be obstructed and means for limiting the movement of said manipulative device.

23. A punch board machine comprising a punch board, a punch, means whereby said punch may be manipulated, a latch for locking said punch against operation, and coin-controlled mechanism for operating said latch to release the punch, said mechanism comprising a trip bar connected with the latch, a member for actuating the same, and a manipulative device connectable with said actuating member by means of a coin to move the same to operative position.

24. A punch board machine comprising a punch board, a punch, means whereby said punch may be manipulated, a latch for locking said punch against operation, and coin-controlled mechanism for operating said latch to release the punch, said mechanism comprising a trip bar connected with the latch, a member for actuating the same, a manipulative device connectable with said actuating member by means of a coin to move the same to operative position and spring means for returning said member to initial position, the returning movement actuating said trip bar.

25. A punch board machine comprising a

punch board, a punch, means whereby said punch may be manipulated, a latch for locking said punch against operation, and coin-controlled mechanism for operating said latch to release the punch, said mechanism comprising a trip bar connected with the latch, a member for actuating the same, a manipulative device connectable with said actuating member by means of a coin to move the same to operative position and spring means for returning said member to initial position, the returning movement actuating said trip bar, said trip bar having a shoulder thereon and said actuating member having a part formed to engage said shoulder and lift the bar during part of the return movement of said member and then to disengage said shoulder, leaving the bar free to permit restoration of the latch to locking position.

26. A punch board machine comprising a punch board, a punch, means whereby said punch may be manipulated, a latch for locking said punch against operation, and coin-controlled mechanism for operating said latch to release the punch, said mechanism comprising a trip bar connected with the latch, a member for actuating the same, a manipulative device connectable with said actuating member by means of a coin to move the same to operative position and spring means for returning said member to initial position, the returning movement actuating said trip bar, said trip bar having a shoulder thereon and said actuating member having a part formed to engage said shoulder and lift the bar during part of the return movement of said member and then to disengage said shoulder, leaving the bar free to permit restoration of the latch to locking position, and spring means for returning said bar to normal position.

27. A punch board machine comprising a punch board, a punch, means whereby said punch may be manipulated, a self-engaging latch operable when the board is punched and preventing further operation of the punch until the latch is released, and coin-controlled means for releasing said latch.

28. A punch board machine comprising a punch board, a punch, means whereby said punch may be manipulated, a self-engaging latch operable when the board is punched and preventing further operation of the punch until the latch is released, and coin-controlled means for releasing said latch, said coin-controlled means comprising a member connected with said latch and a trip device operable when a coin is inserted for actuating said member and thus disengaging said latch.

29. A punch board machine comprising a punch board, a punch, means whereby said punch may be manipulated, a self-engaging latch operable when the board is punched and preventing further operation of the punch until the latch is released, and coin-controlled means for releasing said latch, said coin-controlled means comprising a member connected with said latch and a trip device operable when a coin is inserted for actuating said member and thus disengaging said latch, the punch being then automatically returned to position permitting further operation thereof.

In witness whereof, I hereunto subscribe my name to this specification.

FRED L. MILLS.