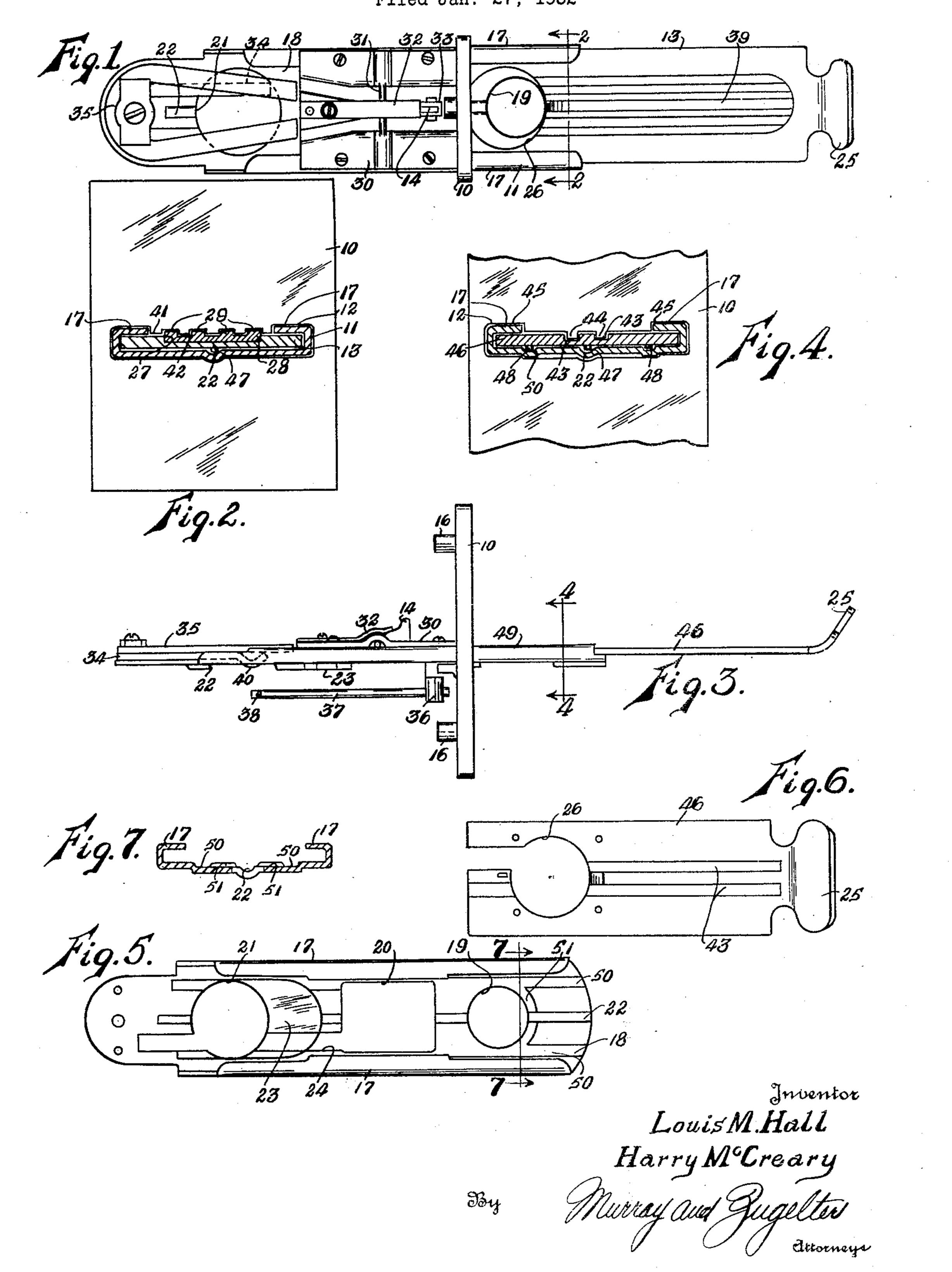
COIN CONTROLLED DEVICE

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LOUIS M. HALL, OF FORT THOMAS, KENTUCKY, AND HARRY MCCREARY, OF YOUNGS-TOWN, OHIO, ASSIGNOES TO THE MONARCH TOOL & MANUFACTURING COMPANY, OF CINCINNATI, OHIO, A CORPORATION OF OHIO

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device of the kind commonly known as a either above or below the slide, thereby holdcoin slot and adapted upon proper operation, ing up the downwardly urged trigger and to actuate other mechanism with which the accomplishing repeated and unauthorized op-5 coin slot is associated.

device of the kind described provided with or a vending machine of some kind. The means to preclude fraudulent operation of the device.

Another object is to provide such means ing, briefly, of complementary studs, ways 60 operation of the properly actuated mechanism.

Another object is to provide means posi-15 tively operative upon the coin used to actuate the coin slot device for facilitating or expediting release of the coin therefrom.

of the kind described which are simple in 20 manufacture and efficient in use.

These and other objects are attained by the means described herein and illustrated in the accompanying drawing, in which:

Fig. 1 is a top plan view of a coin-con-25 trolled mechanism of this invention, in position to receive a coin.

2—2 of Fig. 1.

Fig. 3 is a side elevational view of a coin 30 slot device comprising modified structure.

Fig. 4 is a cross sectional view taken on line 4—4 of Fig. 3.

and housing, respectively, seen in Figs. 3 35 and 4.

line 7—7 of Fig. 5.

vention comprises briefly a support plate, or inner end of the housing. A central 40 adapted to be vertically positioned, a hous-groove 22 extends longitudinally of the hous-90 ing extending through a horizontal slot in the ing. Just forwardly of the coin-release apersupport plate, a slide positioned upon the hous- ture 21, the housing is provided with a deing, a downwardly-urged, spring actuated pressed portion 23 upon which a coin drops trigger adapted to prevent operation of the immediately prior to its release from the de-45 device without a proper coin, to eject coins not of a pre-determined diameter, and a magnet adapted to engage magnetic coins to prevent operation of the device. Heretofore, fraudulent operators have found it possible 50 to actuate mechanisms of this kind, by insert-

This invention relates to a coin-controlled ing a thin strip of metal through the slot erations of the coin slot and the associated 55 An object of the invention is to provide a mechanism, generally an amusement device present invention provides means preventing such fraudulent operation, said means consistwhich in no way affect or endanger smooth and ridges provided on the support plate, slide and housing and effectively precluding insertion of strips and the like for fraudulently operating the coin slot.

The present invention likewise provides for 65 another improvement in coin devices, consisting of means effecting positive downward di-Another object is the provision of means recting of the coin at the time the coin is released from the device, thereby obviating difficulties formerly encountered when gravity 70 operation was depended upon.

With reference to the drawing: The support plate 10 may be rectangular in shape as shown and provided with interiorly threaded studs 16 on its inside face facilitating its at- 75 tachment to a suitable vertical surface, gen-Fig. 2 is a cross sectional view taken on line erally a wall of the mechanism or device with which the coin slot is associated. The housing 11 extending through the slot 12, projects on both sides of the plate 10 and comprises 80 an elongated strip or plate formed to provide lateral flanges 17 overhanging the top Figs. 5 and 6 are top plan views of the slide face 18 of the housing. The housing is provided with an aperture 19 adjacent its outer end, an aperture 20 intermediate the ends of 85 Fig. 7 is a cross sectional view taken on the housing and positioned close to the inner face of the support plate 10, and a coin-re-The coin-controlled mechanism of this in- lease aperture 21 provided adjacent the rear vice. Adjacent one side of the housing the 95 latter is cut to provide a slot 24 communicating with the apertures 20 and 21 and within which travels the arm actuating the mechanism with which the coin slot is associated.

The slide 13 seen in Figs. 1 and 2 consists of 100

slidable upon the housing. The strip is pro-through the aperture 26 and precludes operavided at its outer end with an upturned han- tion of the device. If a magnetic coin of the dle 25 and adjacent its inner end with a coin- predetermined diameter is utilized, the mag-5 receiving aperture 26 adapted, in the inoper- net 35 holds the magnetic coin against its 70 ative position of the device, to register sub- undersurface and further movement of the ing. A shallow channel 27 is milled in the the end of the arm 34 so that complete operaupper face of the slide 13 and extends from tion of the device is prevented. If a coin of 10 the outer edge of the aperture 26 to the outer too small a diameter is used, the trigger 14, 75 plate 28, snugly receivable in the channel is se-such coin through the aperture 20 of the to provide ridge 29 projecting above the top inward movement. 15 surface of the slide. A downwardly project- The upper edge of the slot 12 in the suping arm 36 is secured to the underface of the port plate 10 is formed to provide downward 30 attached to the arm 36 and when said arm clearly by reference to Fig. 2 that the space 35 25 its inner end 38.

support plate 10, a cover member 30 is at-slide and the slot. tached to the upper faces of the flanges 17. In Figs. 3 to 7 is illustrated a modification ner end of the cover and bears upon the trigture 33 provided in the cover member.

40 tened.

receiving aperture 26 of the slide. The to hold up the trigger 14, is thus effectively completely inwardly. At this point the coin tion of the coin is obviated. moves first into the depressed portion 23 of What is claimed is: the housing and then outwardly of the coin- 1. A coin controlled device comprising a release aperture 21. In order to facilitate and support plate adapted to be vertically posiexpedite the release of the coin, and likewise to preclude the possibility of jamming, the co arm 34 is provided with a hook portion 40 against which the innermost edge of the coin abuts whereby the coin is positively directed adapted for full inward movement when prooutwardly of the coin release aperture.

If no coin is deposited within the aperture 65 26 the trigger 33, upon the inward movement

a strip receivable within the flanges 17 and of the slide, is projected downwardly stantially with the aperture 19 of the hous-slide brings the coin into abutment against end of the slide. Within the channel 27 a upon inward movement of the slide, ejects cured. On its uper face the plate 28 is formed housing and locks the slide against further

slide adjacent the inner end thereof. This ly projecting studes 41 so placed as to extend arm is adapted to move back and forth in the at the sides of and in the grooves 42 between slot 24 of the housing. A rod 37 is commonly the ridges 29 of the slide. It will be seen has been moved inwardly by actuation of the that might otherwise result between the top slide, it actuates the mechanism with which face of the slide and the upper edge of the the coin-slot is associated, the rod 37 being groove 12, is traversed at four points by the positively connected with such mechanism at studs, grooves and ridges described so that it would be impossible for a fraudulent opera-Immediately adjacent the inner face of the tor to insert a strip of any kind between the

The trigger member 14 is pivotally mounted of the groove and stud means, and likewise on the cover member 30 by means of a small means precluding insertion of a strip between 35 shaft 31 extending transversely of said cover. the housing and the under face of the slide. A spring strip 32 is secured adjacent the in- Central ways 43 are milled directly in the upper face of the slide 46, and corresponding ger 14, urging said trigger toward an aper- studs 44 are formed on the upper edge of the slot 12, said slot being likewise formed to 100 Upon the upper face of the housing at the snugly embrace the flanges 17, as seen at 45 rear end thereof, the stop arm 34 is attached, (Fig. 4). As also clearly seen in Fig. 4, the said arm projecting into the aperture 21. bottom face of the slide, in addition to the Above the stop arm 34 a magnet 35 is fas-central guide stud 47, adapted to ride in the housing groove 22, and which is common to 105 The device so formed and assembled is both devices herein described, is likewise proadapted to be operated in the following way: vided with the studes 48. The housing is The slide 13 is moved out to the position formed with corresponding grooves 50 withshown in Fig. 1. A coin of predetermined di- in which the stude 48 project when the lide a ameter, commonly a five cent piece, is depos- is moved inwardly. The insertion of a strip 110 ited upon the housing and within the coin- between the housing and slide, in an attempt downwardly urged trigger 14, in the inopera- prevented. So that there may be no danger of tive position of the slide, rests against the top the coin bringing up against the studs 44 and 50 surface of the slide. The coin fills the aper- preventing operation of the device, the upper 115 ture 26 so that the trigger rides over the top surface of the housing, adjacent the outer surface of the coin and continues in the cen- edge of aperture 19 is flattened as at 51 (Figs. tral groove 39 until the slide has been moved 5 and 7), whereby excessive upward projec-

tioned against a wall member or the like and having a horizontal slot therein, a housing extending through said slot, a coin-carrying 125 slide member slidable in said housing, and vided with a coin of predetermined character, locking means adjacent the inner face of said support plate and adapted for down- 130 1,897,193

ward movement into the path of the slide to formed to snugly embrace the lateral flanges preclude operation thereof without a coin of of said housing. ship with said ways and ridges upon inward effect fraudulent operation of the device.

2. A coin controlled device comprising a 15 support plate adapted to be vertically positioned against a wall member or the like and having a horizontal slot therein, a housing extending through said slot, a coin-carrying slide member slidable in said housing, and adapted for full inward movement when provided with a coin of predetermined character, locking means adjacent the inner face of said support plate and adapted for downward movement into the path of the slide to preclude operation thereof without a coin of the predetermined character, alternate ways and ridges provided on the exposed portion of the slide, and corresponding studs and spaces provided along the upper edge of said slot and adapted for interfitting relationship with said ways and ridges upon inward movement of the slide, for precluding entry of a strip or the like between the slide and said upper slot edge, grooves provided on the housing and corresponding studs provided on the slide and adapted to extend into said housing grooves upon inward movement of the slide, said latter grooves and studs being adapted to preclude insertion of a strip or the like between the housing and the bottom face of the slide.

3. A coin controlled device comprising a support plate adapted to be vertically posi-45 tioned against a wall member or the like and having a horizontal slot therein, a housing extending through said slot and comprising an elongated plate formed with lateral flanges overhanging its top face, a coin-50 carrying slide strip slidable upon the housing within said flanges and adapted for full inward movement when provided with a coin of predetermined character, locking means adjacent the inner face of said support plate and adapted for downward movement into the path of said slide to preclude operation thereof without a coin of the predetermined character, alternate ways and ridges provided on the upper face of the slide and corresponding studs and spaces provided along the upper edge of said slot and adapted for interfitting relationship with said ways and ridges upon inward movement of the slide, the end portions of said slot being

the predetermined character, alternate ways 4. A coin controlled device comprising a and ridges provided on the exposed portion support plate adapted to be vertically posiof the slide, and corresponding studs and tioned against a wall member or the like and 70 spaces provided along the upper edge of said having a horizontal slot therein, a housing slot and adapted for interfitting relation- extending through said slot and comprising an elongated plate formed with lateral movement of the slide, for precluding entry flanges overhanging its top face, a coin-carryof a strip or the like between the slide and ing slide strip slidable upon the housing 75 said upper slot edge and inserted for the pur- within said flanges and adapted for full inpose of holding up said locking means to ward movement when provided with a coin of predetermined character, locking means adjacent the inner face of said support plate and adapted for downward movement into 80 the path of said slide to preclude operation thereof without a coin of the predetermined character, ways provided on the upper face of the slide, corresponding studs projecting downwardly of the upper edge of said slot 85 and adapted to extend into said ways upon inward movement of the slide, ways provided on the upper surface of the housing and corresponding studs projecting downwardly of the slide and adapted to extend into said 90 housing ways upon inward movement of the slide the end portions of said slot being formed to snugly embrace the lateral flanges of said housing.

5. A coin controlled device comprising a 95 support plate adapted to be vertically positioned against a wall member or the like and having an aperture therein, a housing extending through said aperture, and having a coin-release opening adjacent its inner end, a 100 coin-carrying member slidable in the housing and adapted for full inward movement when provided with a non-magnetic coin of predetermined diameter, locking means positioned above the housing and adapted to preclude 105 full operation of the coin carrying member without a coin of the predetermined diameter, means extending transversely of the housing and coin carrying member to preclude insertion into the interior of the device 110 of a strip or the like, a magnet positioned immediately above said coin release opening, an arm projecting into said opening immediately beneath the magnet and adapted for endwise abutment with a magnetic coin mag- 115 netically held by the magnet for precluding full inward movement of the coin-carrying member, and a downwardly bent portion formed adjacent the abutment end of said arm, said portion being positioned at the ter- 120 minus of inward movement of a non-magnetic coin for positively directing such coin from the coin-release opening.

6. A coin controlled device comprising a support plate adapted to be vertically positioned 125 against a wall member or the like and having an aperture therein, a housing extending through said aperture, and having a coinrelease opening adjacent its inner end, a coincarrying member slidable in the housing and 130

adapted for full inward movement when provided with a coin of predetermined diameter, locking means positioned above the housing and adapted to preclude full operation of the coin carrying member without a coin of the predetermined diameter, means associated with the upper and the lower surfaces and the sides of the coin carrying member and housing precluding access to said locking means from the exterior of the support plate, and means associated with said coin release opening for positively directing a coin through the opening:

In testimony whereof, I have hereunto subscribed my name this 25th day of January,

1932.

LOUIS M. HALL.

In testimony whereof, I have hereunto subscribed my name this 22nd day of January, 1932.

HARRY McCREARY.

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