July 20, 1937 H. F. BERG 2,087,717

CABINET FOR COIN CONTROLLED MACHINES

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Fig. 1

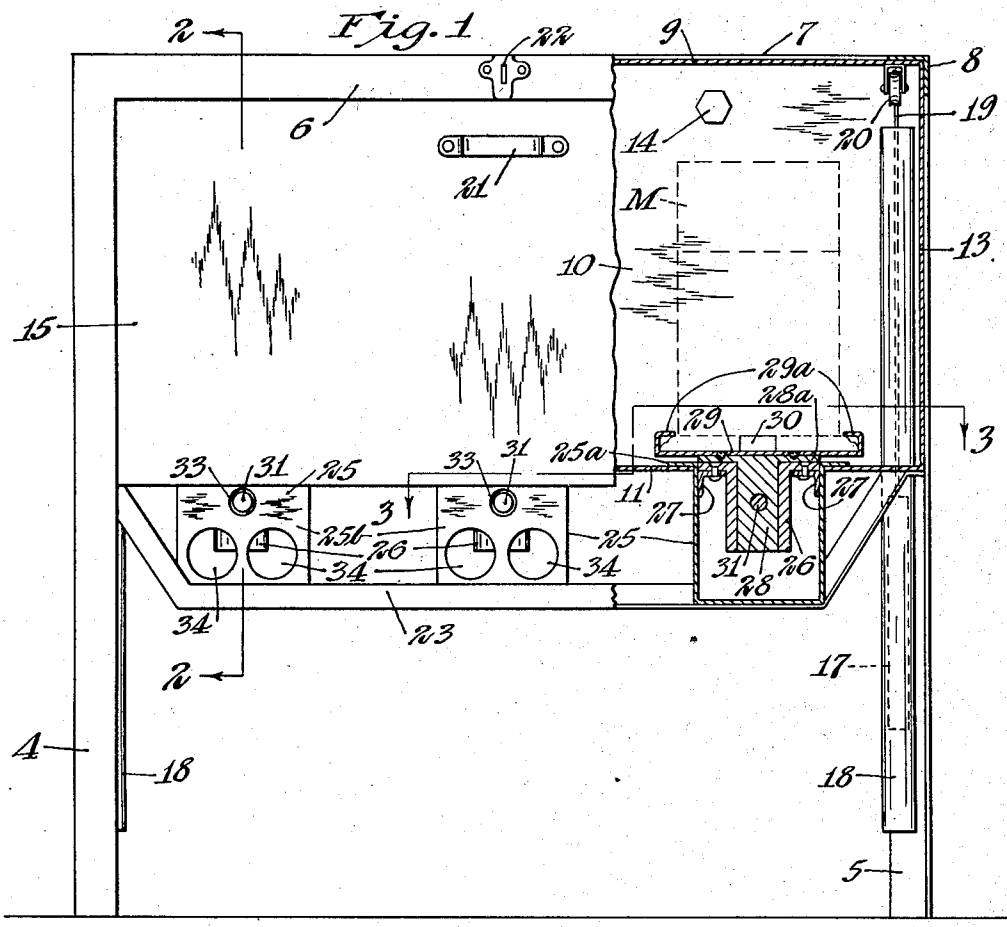


Fig. 2

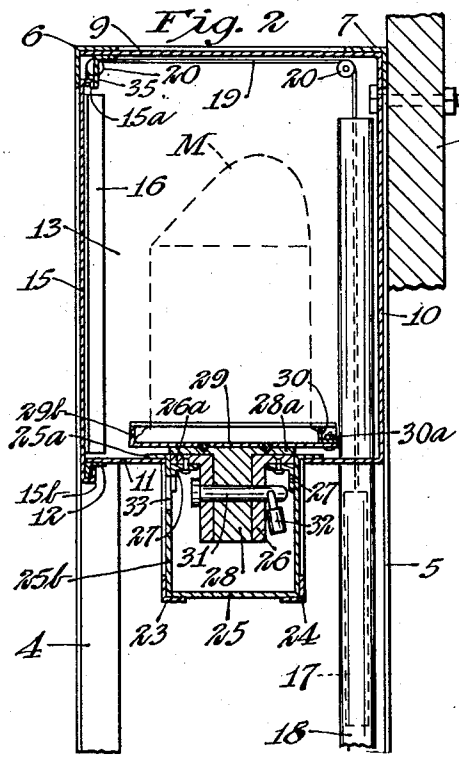
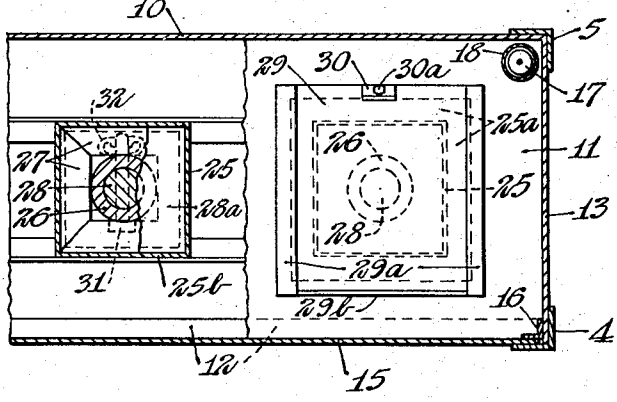


Fig. 3



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CABINET FOR COIN CONTROLLED MACHINES

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2 Claims. (Cl. 312—35)

My invention relates to cabinets and particularly to theft-resistant cabinets for coin controlled machines.

Theft or unauthorized removal of coin controlled machines of various kinds has become very common and has occasioned considerable loss to operators and owners of such machines. Securing of machines to stands and cabinets of a nature permitting the same to be bodily carried away has been ineffectual and locking of machines to relatively immovable objects has resulted in the locks being opened by means of hammers, chisels, hacksaws, files, prying bars, etc.

A general object of my invention is to provide a cabinet for coin controlled machines capable of effectively protecting such machines from theft.

A more specific object is to provide a cabinet adapted for relatively permanent attachment to a wall or the like and having means for locking a machine to the cabinet so protected as to be accessible for use of a key therein but substantially inaccessible for application of tools thereto.

Another object is to provide such a cabinet wherein a machine is supported by a turntable and is removable from the turntable only when the turntable is in a position other than normal.

Still another object is to provide such a cabinet having locking means appliable to lock the turntable both against removal and against rotation out of its normal position.

Yet another object is to provide such a cabinet having closure means preventing simultaneous access to a machine mounted in the cabinet and the means locking such machine to the cabinet.

A further object is to provide such a cabinet of sturdy, compact and inexpensive construction.

These and other objects and advantages of the invention will be more fully set forth in the following description made in connection with the accompanying drawing, in which like reference characters refer to similar parts throughout the several views, and in which:—

Fig. 1 is a partially broken-away, partially sectional front view of a cabinet embodying my invention;

Fig. 2 is a vertical sectional view taken along the line 2—2 of Fig. 1 as indicated by the arrows, and

Fig. 3 is a horizontal sectional view taken along the line 3—3 of Fig. 1 as indicated by the arrows.

Referring to the drawing, I provide a framework for supporting the remaining parts of my cabinet. This framework may include vertical forward corner members or columns 4 and vertical rear corner members or columns 5. A front horizontal rail or beam 6 extends between and is secured at its respective ends to the upper ends of the respective front columns 4. A rear beam 7 extends between and is secured at its respective ends to the upper ends of the respective rear columns 5. End beams 8 are provided at the respective ends of the framework, each extending from the top of a front column 4 to the top of a rear column 5 and secured at its respective ends to the respective columns associated therewith. The columns 4 and 5 and the beams 6, 7 and 8 are preferably formed of metal, are preferably of angle-shaped cross-section and are preferably joined at connections between respective ones thereof in a substantially integral manner as, for instance, by welding.

The above described frame has a top closure or wall 9, a rear closure or wall 10 and a floor or shelf 11 provided therein. Preferably the walls 9 and 10 and shelf 11 consist of a single sheet of relatively heavy metal suitably bent and secured to all adjoining portions of the frame as by continuous lines of welding. The shelf 11 is disposed medially of the height of the frame, as shown, and is preferably stiffened or re-inforced at its forward edge by suitable means, such as the angle bar 12, secured thereto as by welding or other suitable means. End walls 13, extending from the top wall 9 to the shelf 11, are provided and are secured to adjoining portions of the frame by welding or the like.

The above described elements comprise a rugged cabinet of which the rear side may be placed against a wall W or the like and secured thereto by suitable means such as the nutted bolts 14.

A vertically movable closure 15, preferably consisting of a vertically slidable door formed of relatively heavy sheet metal, is provided for the front side of my above described cabinet. The right and left vertically extending marginal portions of the door 15 are disposed between the front legs of the respective angle-sectioned columns and vertically extending angle bars 16 secured to the cabinet inwardly thereof, as shown, so that the door 15 is guided in and limited to vertical sliding movement relative to the remainder of the cabinet. The upper edge portion of the door 15 is provided with an inwardly turned horizontal flange 15a engageable with the forward edge portion of the shelf 11 to limit downward movement of the door 15. The lower edge portion of the door 15 is bent inwardly and upwardly, as shown, to

form a stop element 15b affording a groove adapted to receive the depending leg of the re-inforcing angle bar 12 and engage the same to limit upward movement of the door 15. It should be apparent that the door 15, when at its upper limit of movement, affords access to the space below the shelf 11 and blocks access to the space above the shelf, does the converse when at its lower limit of movement, and, at no time, simultaneously affords convenient access to both of the spaces mentioned.

To prevent displacement, when the door 15 is in its uppermost position, of the upper portion of the door 15, as by prying or the like, an angle bar 35 is secured to the cabinet a short distance rearwardly of the door 15 so that the free edge of the rearwardly projecting flange of the angle bar 15a of the door 15 will abut the depending flange of the angle bar 35 when the door 15 is at its upper limit of movement.

To facilitate easy raising and lowering of the door 15 counterweights 17, housed in and guided by vertically disposed tubular members 18 secured in the cabinet, are connected to the top flange 15a of the door 15 by elongated flexible elements 19 trained over pulleys 20 revolubly mounted in the cabinet.

A handle 21 may be mounted on the outer side of the upper portion of the door 15 and lock means 22 may be provided for locking the door 15 at its upper limit of movement.

The above described cabinet is adapted for supporting one or more coin operated machines or the like on the shelf 11 thereof in a manner to be described.

A framework consisting of a pair of members 23 and 24, preferably formed from metal bars of angular cross-section, is supported from the cabinet and includes a portion extending longitudinally of the cabinet below and in spaced parallel relation to the shelf 11. For each machine M to be provided for in the cabinet, an open topped box 25, preferably formed of relatively heavy sheet metal and having a substantially cubical shape, extends between the shelf 11 and the framework members 23 and 24 and is suitably secured to each thereof. The shelf 11 is apertured to snugly receive the upper end of the box 25 and the upper end of the box 25 is provided with an outwardly projecting flange 25a resting upon and secured to the upper side of the shelf 11 by suitable means such as welding. The lower portion of the box 25 may be suitably secured to the framework members 23 and 24.

A vertically axised bearing 26 is provided with a peripherally square, radially projecting flange 26a snugly fitting in the uppermost portion of the box 25. The flange 26a is secured to the box 25 by suitable means such as the angle members 27 which are secured to the lower side of the flange 26a by rivets or comparable means and may be welded to the inner sides of the corresponding vertical side walls of the box 25. A journal 28, carrying a radial flange 28a on its upper end, is journalled in the bearing 26 and has a rectangular turntable platform 29 secured to the flange 28a by welding or other suitable means.

Most machines of the type for which my cabinet is primarily designed have a shallow base which projects horizontally outwardly of the sides front and back thereof and by means of which the machines may be attached to the turntable platforms 29 of my cabinet in a manner to be described. With the turntable platform 29 in a selected rotated position thereof, hereinafter to be referred to as its normal position, the sidewardly extending marginal portions thereof are bent upwardly and inwardly to form inwardly projecting flanges 29a for overlying the projecting portions of the base of the machine M to restrain the machine against upward removal from the turntable platform 29. The forward marginal portion of the turntable platform is turned upwardly to form a flange 29b for preventing forward removal of the machine M from the turntable platform 29. A suitable member, such as the angle bar 30, is removably secured to the rear marginal portion of the turntable platform 29 by suitable means such as a nutted bolt 30a to normally prevent movement of the machine M rearwardly relative to the platform 29. With the platform 29 in normal position and the angle bar 30 removed, the machine M would be limited in rearward movement thereof by the rear wall 10 of the cabinet and hence would not be movable sufficiently far to leave engagement with the retaining flanges 29a of the turntable platform 29. To remove the machine M from the turntable platform 29 it is necessary to rotate the platform 29 to a position angularly displaced from its normal position by approximately 180 degrees whereupon, with the angle bar 30 removed, the machine may be removed rearwardly from the platform, that is, forwardly relative to the cabinet.

As so far described the turntable platform 29 is free for rotation and for upward withdrawal of its pivot journal 28 from its normal relation with the bearing 26. However, I provide lockable and releasable means for restraining the turntable pivot journal 28 from both rotation and upward withdrawal relative to the bearing 26. To this end I diametrically aperture the bearing 26 and diametrically aperture the journal 28 in such manner that the apertured portions of the bearing 26 and the journal 28 are aligned when the turntable platform 29 is in normal position whereby a locking pin may be inserted in the aligned apertures. The apertured portions of the bearing 26 and journal 28 are of course situated within the box 25 and accessible only from therewithin. Preferably the aperture in the bearing 26 is positioned to extend in a front to rear direction relative to the cabinet. I provide a headed locking pin 31 adapted to be inserted in and relatively closely fit the aligned apertured portions of the bearing 26 and the journal 28. Lockable means is provided for normally preventing withdrawal of the pin 31. For this purpose the free end of the pin 31 is diametrically apertured to receive the bow of a padlock 32. The pin 31 is intended to be inserted from the front and to permit such insertion and subsequent withdrawal the front wall 25b of the box 25 is provided with an aperture 33 only sufficient in size to provide for longitudinal passage of the pin 31 therethrough. To provide access for the hands of an operator to the interior of the box 25 and the padlock 32 hand-holes 34 of the minimum usable size are provided in the front wall 25b of the box 25. The limited size of the hand-holes 34 and the obstruction constituted by the bearing 26 prevent a view of the padlock 32 and substantially prevent application thereto of tools such as hammers, bolt-cutters, hacksaws, files or metal cutting torches. The padlock may however be unlocked by means of its key with relatively little inconvenience.

All of the parts of my cabinet are preferably constructed of metal of such thickness and such

characteristics as to be strongly resistant to breakage, bending or other damage which might be attempted with ordinary portable tools and apparatus.

When it is desired to rotate the turntable platform 29 and a machine M thereon into positions others than normal, as for the purpose of emptying coins from the machine or servicing the machine, the door 15 is placed at the upper limit of movement to provide access to the handholes 34 and the padlock 32. After the padlock 32 and pin 31 have been removed, the door 15 is placed at its lowermost limit of movement to provide access to the machine M. The machine M may then be placed in various rotated positions in accordance to the work to be done thereon or the machine M, turntable platform 29 and pivot journal 28 may be upwardly removed as a unit if desired. Obviously the machine M may be placed in protected condition by reversing the above described process.

It is apparent that I have invented a novel, effective, rugged, damage resistant and inexpensive cabinet capable of rendering coin operated machines mounted therein substantially proof against theft or unauthorized removal.

It will, of course, be understood that various changes may be made in the form, details, proportions and arrangement of the parts without departing from the scope of my invention.

What is claimed is:—

1. A theft-resistant support for a dispensing machine comprising, a platform, means for securing a machine to said platform, a housing below said platform adapted to be secured to a suitable relatively immovable object, a bearing within and secured to said housing, a journal depending from said platform and journalled in said bearing, said bearing being provided with a forwardly and rearwardly extending diametrical aperture therethrough, said journal having a diametrical aperture therethrough positioned for alignment with said first mentioned aperture when said platform is in a predetermined rotated position, and a pin adapted to be placed in a position extending through said aligned apertures to lock said journal against rotation in and withdrawal from said bearing, said pin being headed at its forward end and diametrically apertured at its rear end to receive the bow of a padlock, said housing having handholes in its front wall to provide access to a padlock associated with the diametrical aperture of said pin and an aperture aligned with the aperture of said bearing to accomodate removal of said pin therethrough.

2. A theft-resistant support for a dispensing machine including a platform, a vertical upstanding wall at the rear of said platform, a turntable mounted on said platform, means for retaining a machine on said turntable of such construction that said machine may be withdrawn from said means only in a direction rearwardly of said machine whereby said wall will prevent such withdrawal when said turntable is in normal position, and means for locking said turntable in normal position.

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