

Oct. 20, 1942.

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2,299,174

ADMISSION AND USE RECORDING DEVICE FOR ENCLOSURES

Filed Feb. 5, 1941

2 Sheets-Sheet 1

FIG.-1.

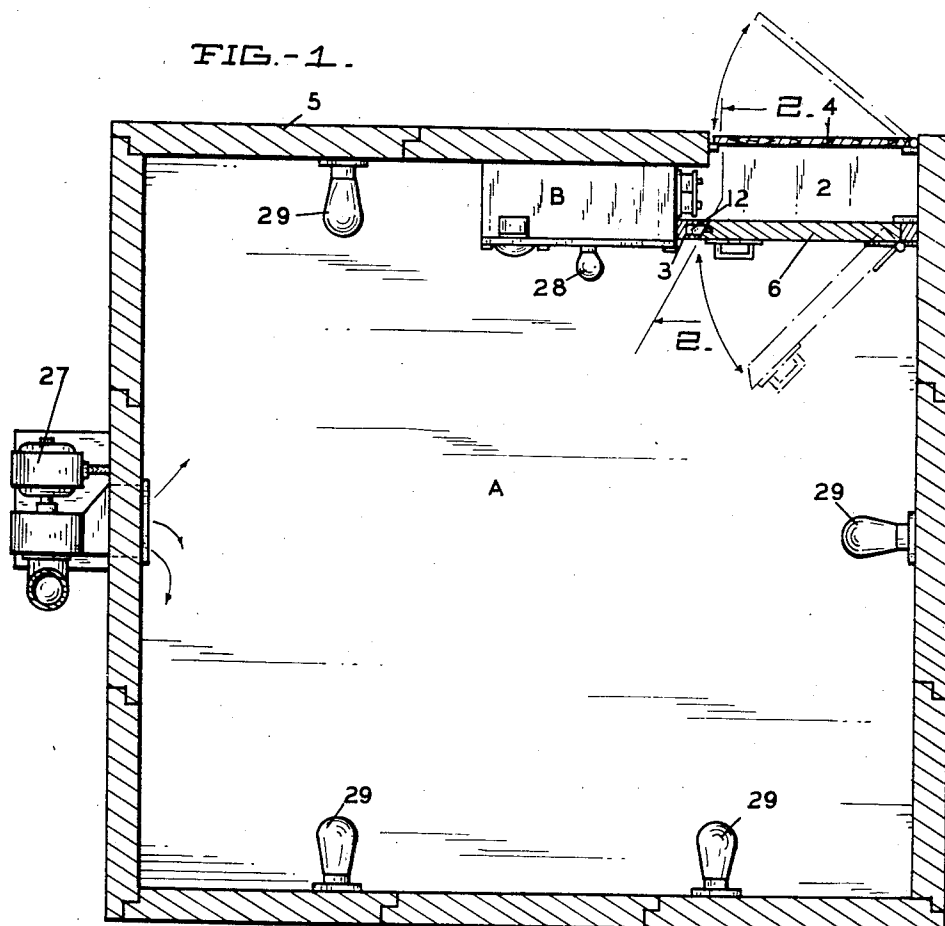
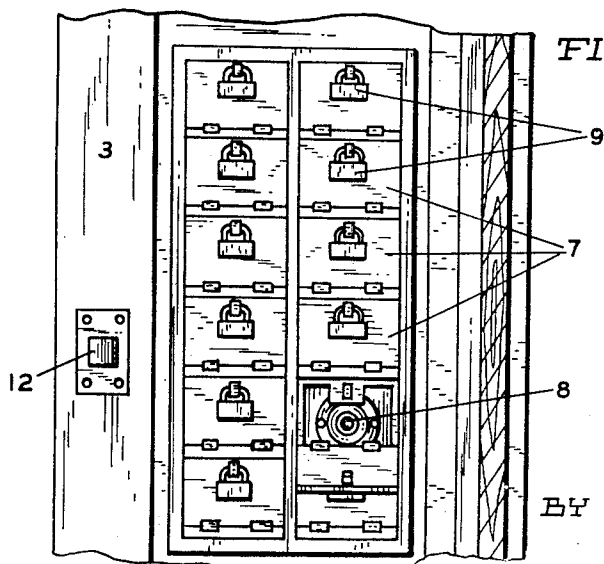


FIG.-2.



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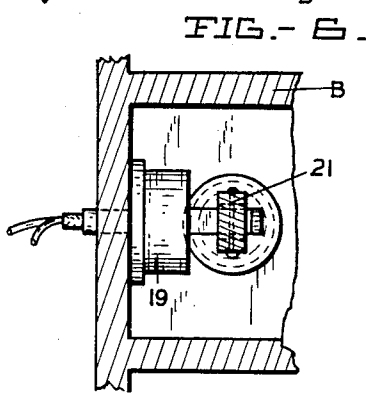
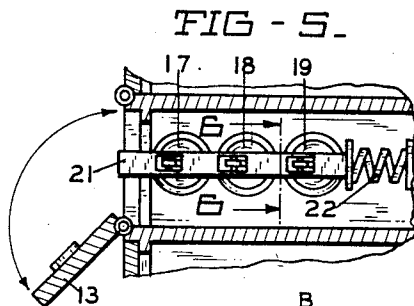
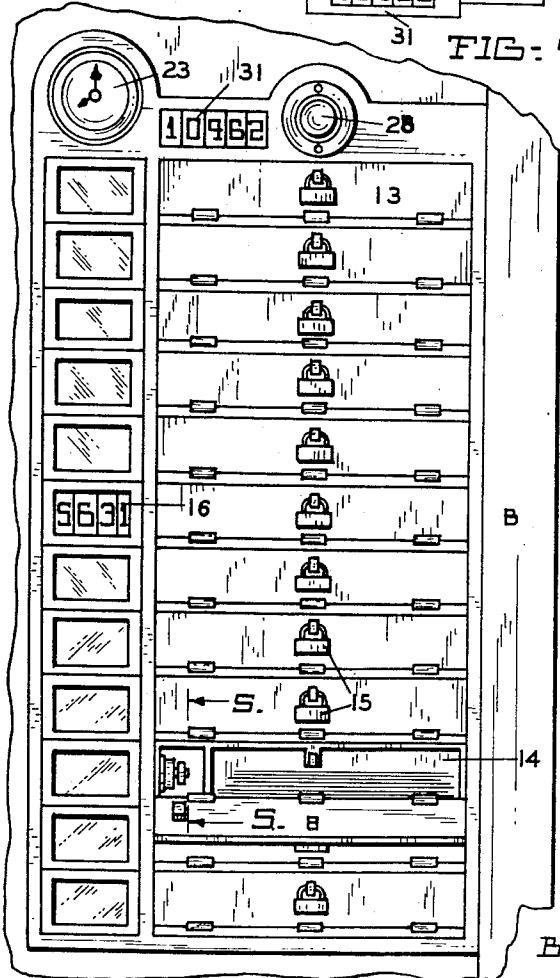
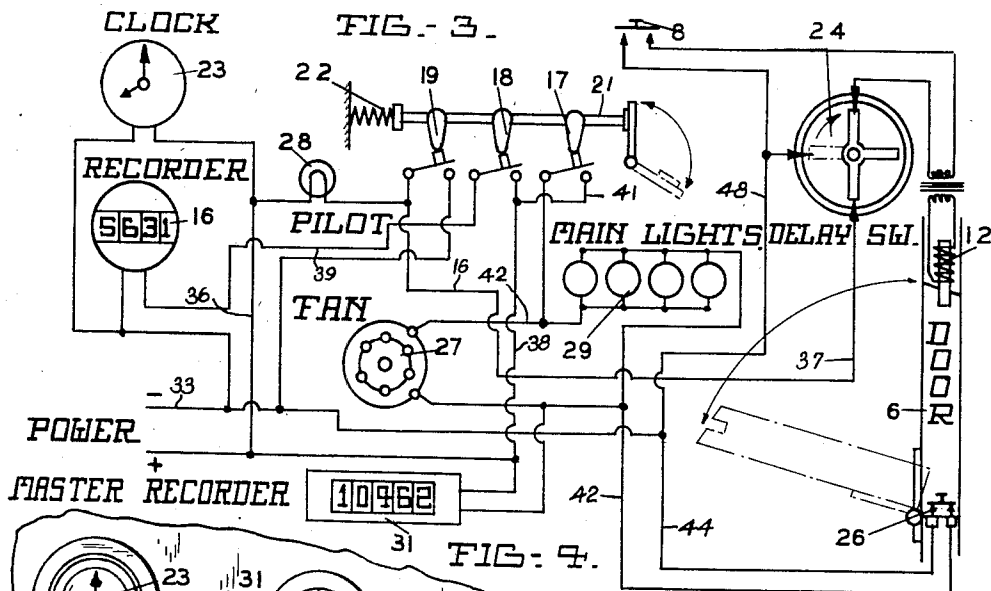
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2 Sheets-Sheet 2



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2,299,174

ADMISSION AND USE RECORDING DEVICE
FOR ENCLOSURES

George T. Plummer, San Francisco, Calif.

Application February 5, 1941, Serial No. 377,452

3 Claims. (Cl. 161-15)

This invention relates to improvements in admission and use registering devices for enclosures.

The principal object of this invention is to provide means for giving authorized persons access to an enclosure and for registering the use of the enclosure by the authorized person.

A further object of the invention is to provide a unit in which equipment may be stored, access to said equipment establishing electrical circuits to illuminate the enclosure and to automatically register the accumulative hours the person may use the enclosure and the accumulative hours of all individual users.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is a diagrammatic illustration of an enclosure, the walls being shown in cross section and having my invention applied thereto;

Fig. 2 is a fragmentary cross sectional view on an enlarged scale taken on the line 2-2 of Fig. 1;

Fig. 3 is a schematic wiring diagram;

Fig. 4 is a fragmentary front elevation of the control unit;

Fig. 5 is an enlarged fragmentary cross sectional view taken on the line 5-5 of Fig. 4; and

Fig. 6 is an enlarged fragmentary cross sectional view taken on the line 6-6 of Fig. 5.

In apartment houses and such buildings, the playing of a piano or other musical instrument is often objected to by some occupants of the building. I have, therefore, devised a soundproof enclosure which may be used by any of the tenants by paying a nominal fee based upon the hours of use. Access to the enclosure or room can only be gained by a person having a key, the actuation of which key first permits access to the room, and then the second application of the key gives access to a locker, the opening of which automatically illuminates the room, turns on a ventilating system, starts a registering meter, and maintains a pilot light, the purpose of which will be later seen.

The room may be constructed of unit sections so that the same may be readily set up in any convenient place.

In the accompanying drawings wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates wall sections which, when placed in proper alignment, form a soundproof room A, having an entrance door 4. Positioned adjacent this door

is a unit B which has a jamb section 3 against which a door 6 abuts. The door 4 and the door 6 form a vestibule 2 outside the room proper. The unit B thus has one face in the room and one face in the vestibule.

On the face of the cabinet in the vestibule there is provided a plurality of tiers of switches 8, access to which is gained by removing a padlock 9 and opening the door 7 controlled by the padlock. An electromagnetic lock is mounted in the jamb 3 the operation of which will be later described.

The face of the unit B that is within the room is divided into a plurality of hinged locker doors 13, which give access to the lockers 14 when the padlocks 15 controlling the doors are removed. Mounted adjacent each locker is a registering clock 16, one of which is shown in Fig. 4. Within each of the lockers is a plurality of switches 17, 18, and 19, which will be hereinafter referred to as door operated switches. The switch 17 controls an electric circuit to energize the room illuminating means, a master register, and a room ventilating means. The switch 18 controls the individual clock or recorder 16. The switch 19 controls a pilot light. These switches are operated to "on" position when the door 13 is opened through the medium of a push rod 21, which is moved forwardly by a spring 22, the action of which is obvious. A time clock is shown at 23.

Referring to Fig. 3, the numeral 24 designates a time delay relay switch, and the numeral 25 a door actuated switch moved into closed position by the closing of the door 6. The fan is shown at 27, the pilot light at 28, and the room illuminating means at 29. The master register is shown at 31.

The result of this construction is that when my unit is positioned in a room of the character described, the switches 8 will be positioned in the vestibule 2, and assuming that an authorized person has a key to one of the padlocks 9, that person may remove the padlock 9, push the button 8 and current will flow from the positive wire through wire 36, pilot light 28, wire 46 and to time relay 24 through relay to wire 47, through button 8 to wire 48, back to negative side of the line. The current in passing from relay 24 to wire 47 will operate the magnetic lock 12, after which a person may swing the door 6 open and gain access to the interior of the room. The operator of the push button 8 will also automatically operate or set the time relay switch 24. As these types of switches are well known, it will be sufficient to state that they may be set electrically or

mechanically, and after being set have a retarding mechanism, such as clock works, dash-pot or the like to retard their return to open position. The setting or closing of the time relay completes circuit from wire 48 to wire 37 to turn on the pilot lights 29 and fan 27 and to start registers 16 and 31. The user then removes the padlock 15 from his particular locker, swings open door 13 and thus gains access to the interior of the locker where music or other material may be stored. The act of opening door 13 permits the push-rod 21 to move to its forward position, as shown in Fig. 5, thus actuating switches 17, 18, and 19. The switch 19 completes the circuits as follows: Current from the + wire 33 will pass through wire 34 to one side of the switch, then through switch 19, to one side of pilot light 28, thence by wire 36 to - side of line.

When the switch 18 is closed, current will flow from the + side of this line through wire 38 to switch 18, thence by wire 39 to register 16 and to the - side of line.

When the switch 17 is closed, current will flow from the + side of the line through wire 38, wire 41 to switch 17 through switch to wire 42, thence to fan 27 and light 29, from fan 27 and light 29 current returns by wire 43 to door switch 26, wire 44 to the negative side of line. The master register 31 is connected to the + side of the line and to the return for the fan and lights so as to only function when the lights and fan are on. The clock is bridged across line and runs at all times. The result is that the closing of the switches 17, 18, and 19 maintains the lights, the pilot light, the fan and the register devices in operation as long as the room is in use.

Should a second person attempt to enter the room, the opening of the door 6 would break the switch 26, thus cutting off the lights, with the exception of the pilot light. The register would also stop so that a person would not be charged with the time they were being interrupted.

As soon as the person using the room closes the door 13, the lights in the room will be extinguished and all registering will cease.

It will thus be seen that I have provided a unit which will permit apartment house owners to secure revenue, if desired, by renting the enclosure upon a time basis in such a manner that each user automatically registers the time that the room is occupied.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the material, size, shape and arrangement of parts may be re-

sorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. A control unit for gaining access to and registering the use of an enclosure and comprising a cabinet having a plurality of tiers of individual switches, doored lockers, and registering mechanism, said unit being so arranged that said switches are located outside said enclosure and said lockers inside said enclosure, a door lock for obtaining access to said enclosure and capable of being actuated by said individual switches, and illuminating means provided in the enclosure and capable of being lighted and extinguished by said individually locked doors.

2. The combination with an enclosure having a pilot light, illuminating and recording means therein, and adapted to be successively used by a number of individual persons, of a vestibule associated therewith, a lock-controlled door for gaining access to said enclosure from said vestibule, a control unit provided with individually locked doors comprising a cabinet having a plurality of individual switches mounted therein, and accessible through said individually locked doors, said doors being positioned in said vestibule, each of said switches controlling the opening of said lock-controlled door, doored lockers mounted in said unit and locked in said enclosure, and switches operated by the opening of any of said locker doors for energizing said illuminating means of said enclosure.

3. The combination with an enclosure having a pilot light, illuminating and recording means therein, and adapted to be successively used by a number of individual persons, of a vestibule associated therewith, a lock-controlled door for gaining access to said enclosure from said vestibule, a control unit comprising a cabinet having a plurality of individually operated switches mounted therein, individually locked doors positioned in said vestibule through which access to said switches may be had, each of said switches controlling the opening of said lock controlled door, a relay switch simultaneously actuated by said individually operated switches to temporarily energize said pilot light in said enclosure, doored lockers mounted in said unit and located inside said enclosure, and a plurality of switches arranged in each of said doored lockers, whereby the opening of any one of the doors of said lockers will cause said last mentioned switches to energize said illuminating and recording means and maintain said pilot light illuminated.

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