

Oct. 30, 1928.

1,690,041

J. V. SUNDQUIST

SECURING DEVICE

Filed June 8, 1925

2 Sheets-Sheet 1

Fig. 1.

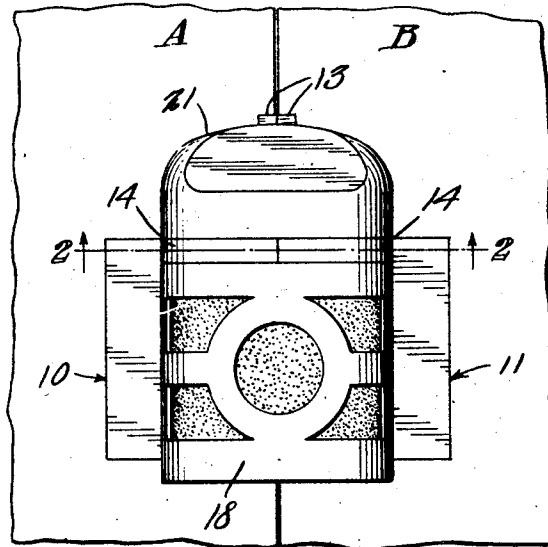
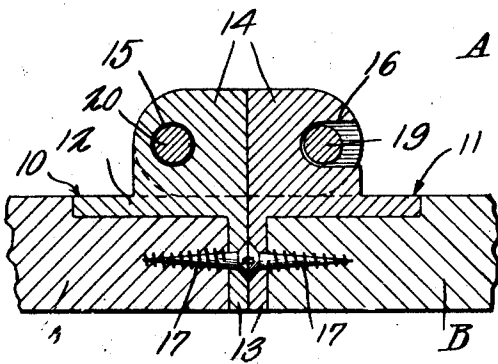


Fig. 2.

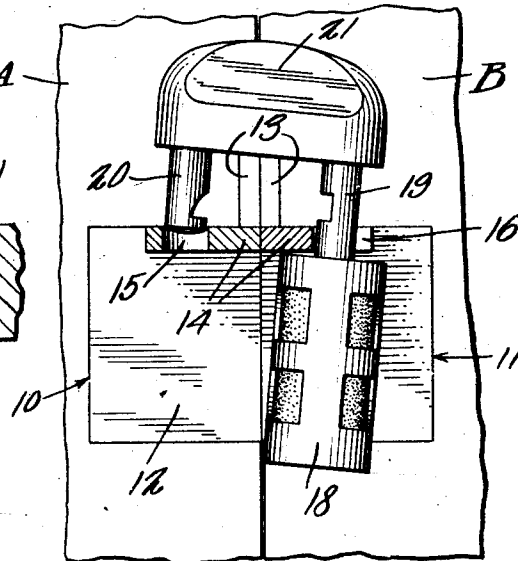


Fig. 3.

P. Hickey.

WITNESS:

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INVENTOR

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Oct. 30, 1928.

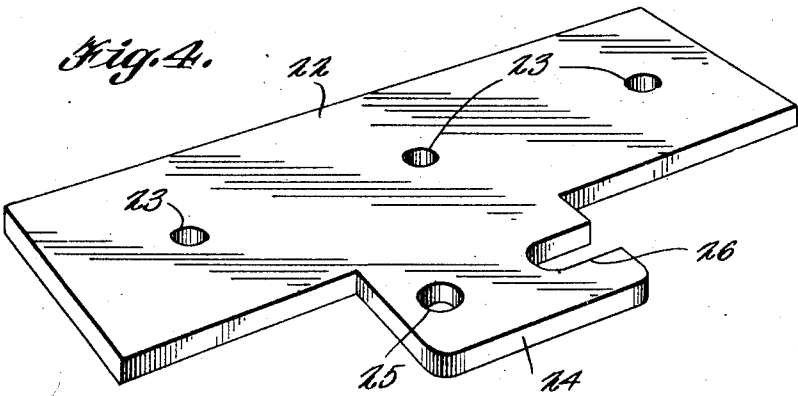
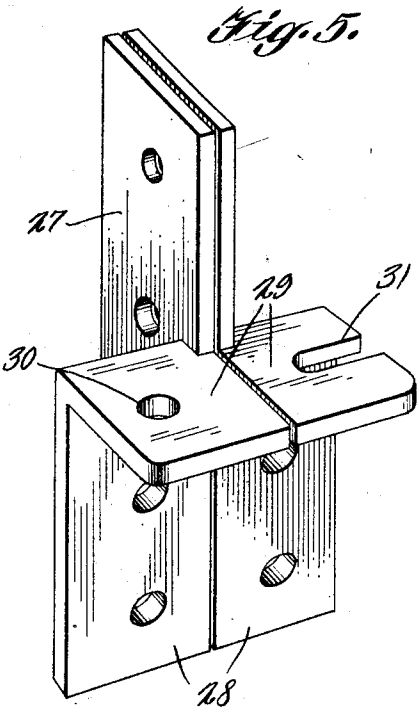
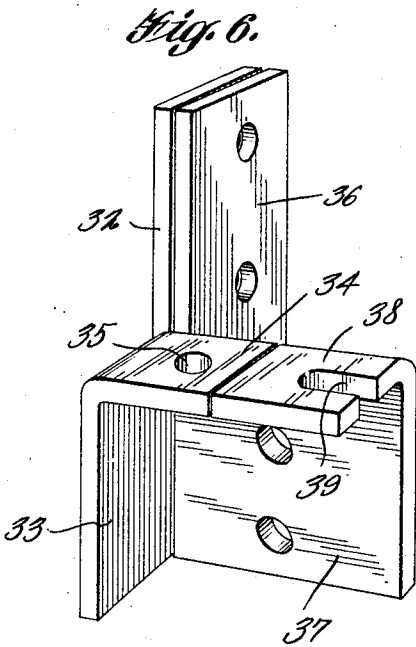
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2 Sheets-Sheet 2



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Patented Oct. 30, 1928.

1,690,041

UNITED STATES PATENT OFFICE.

JOHN V. SUNDQUIST, OF NORWOOD, MASSACHUSETTS.

SECURING DEVICE.

Application filed June 8, 1925. Serial No. 35,741.

This invention relates to securing devices for closures of all kinds such as doors, chest covers and the like and has for its object the provision of a novel padlock shackle in combination with butts or the like replacing the usual hasps or staples, the arrangement and cooperation of the parts being such that prying apart or breaking of the lock or the staple replacements will be practically impossible so that whatever objects or articles are fastened will be secure against the efforts of tamperers and would-be thieves or robbers.

An important and more specific object is the provision of a padlock having its shackle provided with a heavy head designed to cooperate with butt members of correspondingly heavy construction and arranged in such a manner with respect thereto that there will be no spaces within which a prying tool may be inserted for destroying the lock or the butts.

An additional object is the provision of a combination of this character which will be simple and inexpensive to manufacture, easy to install and operate, positive in action, efficient and durable in service, and a general improvement in the art.

With the above and other objects and advantages in view, the invention consists in the details of construction and arrangement of parts to be hereinafter more fully described and claimed, and illustrated in the accompanying drawings in which:

Figure 1 is a front elevation of my improved lock showing it in applied position and associated with the improved butts.

Figure 2 is a section on the line 2—2 of Figure 1 looking upwardly.

Figure 3 is a view somewhat similar to Figure 1 but with the butts in section, this view showing the lock in open position and in the act of being applied or removed.

Figure 4 is a perspective view of a modified form of butt, and

Figures 5 and 6 are views of other butts.

Referring more particularly to the drawings, the letters A and B designate relatively movable elements to be secured together which elements may be sliding doors, hinged doors or a sliding or hinged door and its jamb, such details being absolutely immaterial as the invention is capable of employment for a wide variety of purposes.

In carrying out the invention I provide a pair of butt members 10 and 11 mounted upon the doors or other elements A and B respec-

tively. Each of these members includes right angularly shaped body portions 12 recessed into the element upon which it is mounted so as to be flush therewith and it will be observed that each body member has a portion 13 recessed into the edge of the door or other element. Each body member has formed thereon an outstanding shelf or flange 14 and the flange of the member 10 is provided with a circular hole 15 while the shelf of the member 11 is formed with a slot 16 opening out to the edge. When the doors or other members A and B are in closed position the members 10 and 11 will abut as clearly indicated in Figure 2 so that access cannot be had to the screws 17 or the like used for holding the members 10 and 11 on the doors or other elements.

In connection with these butt members I make use of a padlock including the usual or any preferred body member 18 containing any suitable lock mechanism and having connected or associated therewith a shackle including a long leg 19 permanently connected with the lock body and rotatable and slidable with respect thereto, and a shorter leg 20 detachably engageable with the lock body in a well known manner. Specific details of the lock are not given as they form no part of the present invention, it being sufficient to call attention to the novel feature which is the enlarged heavy head 21 formed on and connecting the legs 19 and 20 of the shackle. In actual practice it may be preferable that the head 21 be of the same size and shape as the shelves or ledges 14 when they are together and of the same size and shape as the cross sectional configuration of the lock body 18.

Assuming that the doors or other members A and B have been moved into closed position and that the butt members 10 and 11 are in abutting engagement, it will be seen that when the lock is open and it is desired to apply the same, the leg 19 of the shackle is engaged with the slot 16 by lateral movement of the lock with respect to the butts and that the shackle is then so disposed that the shorter leg 20 will register with the hole 15 so that it may be inserted therethrough, subsequently to which the lock body is brought into registration with the contacting shelves or ledges and the leg 20 moved into and engaged with the lock body in a well known manner. It will be observed that when the lock is thus applied the head 21 will fit closely against

the tops of the shelves or ledges 14 while the lock body 18 fits snugly against the undersides thereof, the peripheries of the lock body, shelves and head 21 being then coextensive.

Obviously there are no appreciable crevices or spaces in which a chisel or other prying tool may be inserted for the purpose of prying open or breaking either the lock or the butt members engaged thereby so that security will be assured.

In some special instances it may be necessary to use butt members of other forms than that disclosed in Figures 1, 2 and 3, and in Figure 4 I have shown a butt member 22 of a type particularly designed for use in connection with horizontal closures such as the tops or covers of tool chests, boxes or other articles in which there is an upwardly movable hinged top. In such an event two of the butt members 22 must be employed, one on the body or main portion of the chest or box and one on the cover thereof. Both butt members would be the same and each includes an elongated flat plate-like member having holes 23 for the passage of screws or other securing members and formed at one edge with an extension 24 having a hole 25 and an open ended slot 26 therein. When butts of this type are used the extensions 24 of the two and the holes 25 and slots 26 will register, the former being adapted to receive the short leg and the latter being adapted to receive the long leg of the lock shackle in exactly the same manner as above described.

In Figure 5 I have shown butts 27 adapted to be used in connection with sliding doors and in this instance these members are formed as upright elongated plates at one edge of which are laterally extending portions 28 at the upper ends of which are forwardly extending ledges or shelves 29, one being provided with a hole 30 and the other with an open ended slot 31 for the same purpose as above indicated.

In Figure 6 I have shown a type of butts to be used on a single door cooperating with a jamb and in this instance one butt 32 is formed with an extension 33 co-planar therewith and provided with a horizontal laterally extending shelf or ledge 34 provided with a hole 35. The other butt 36 has a right angular plate member 37 at one edge provided at its top with a ledge or shelf 38 formed with a slot 39. In all forms the operation of placing the lock in position or removing it is identically the same and in all cases it will

be observed that the holding action should be secure and the securing device practically incapable of being tampered with owing to the tight fit or close relation of the parts.

While I have shown and described a preferred embodiment of the invention, it should be understood that I reserve the right to make such changes in the form, construction and arrangement of parts as will not depart from the spirit of the invention or the scope of the subjoined claims.

Having thus described the invention, I claim:

1. In combination, a padlock having its shackle including long and short legs connected by a relatively heavy and large head, and butt members of plate-like formation adapted to be secured to relatively movable elements, said butt members being recessed into meeting edges of a member and closure whereby to be non-removable, including outstanding ledges, one ledge having a hole and the other an open ended slot therein, the hole being adapted to receive the short leg of the shackle and the slot being adapted to receive the long leg thereof, the head engaging upon the top of the ledges and the lock body engaging against the undersides thereof, whereby the lock when fastened will fit closely about and against the ledges to prevent the leaving of cracks of sufficient size to permit the insertion of prying tool, and whereby the lock will be immovable with respect to the butt members.

2. In combination, a padlock having its shackle including long and short legs connected by a relatively heavy and large head, and butt members of plate-like formation adapted to be secured to relatively movable elements, said butt members including outstanding ledges, one ledge having a hole and the other an open ended slot therein, the hole being adapted to receive the short leg of the shackle and the slot being adapted to receive the long leg thereof, the head engaging upon the top of the ledges and the lock body engaging against the undersides thereof, the head, ledges and lock body having the same contour, whereby the lock when fastened will fit closely about and against the ledges to prevent the leaving of cracks of sufficient size to permit the insertion of prying tool, and whereby the lock will be immovable with respect to the butt members.

In testimony whereof I affix my signature.

JOHN V. SUNDQUIST.