March 11, 1969 J. E. SORRELL 3,432,199

PORTABLE TRAVEL LOCK

Filed May 22, 1967

Fig.1

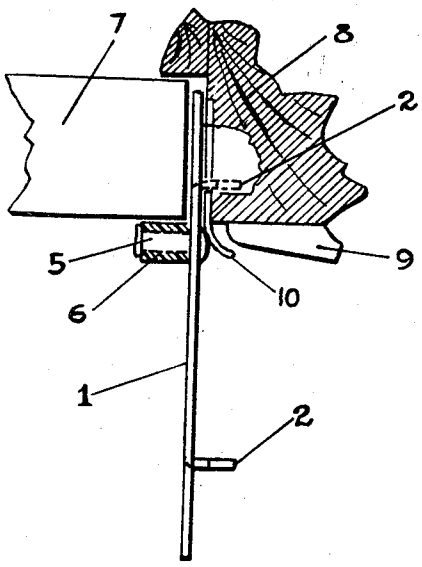


Fig. 2

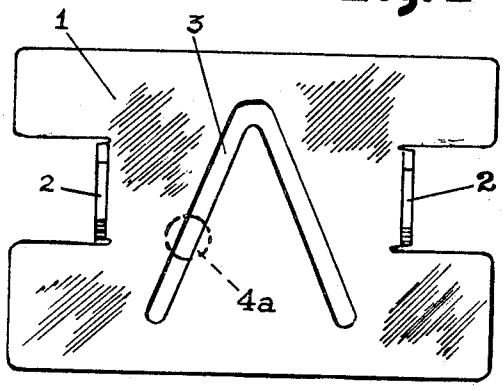


Fig.3

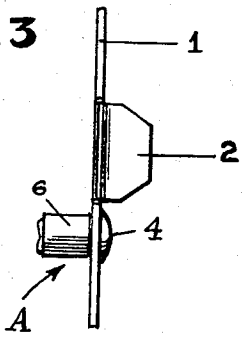
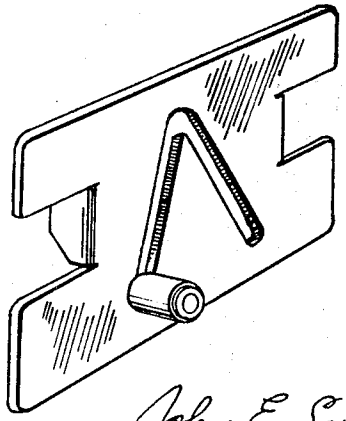


Fig.4



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3,432,199

PORTABLE TRAVEL LOCK

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U.S. Cl. 292—292 1 Claim
Int. Cl. E05c 19/18

ABSTRACT OF THE DISCLOSURE

A mechanism for bolt-locking hinged doors consisting of an essentially rectangular flat plate with struck-out center portions in opposite ends bent to form a right angle with the plate and having an inverted-V slot in the plate, positioned centrally between struck-out portions, with a slidable abutment member positioned in the slot and extending at a right angle to the plate, with one of the struck-out portions inserted in the hole in a latch striker-plate when the door is closed and with the slidable abutment member positioned in the slot to abut the door solidly and prevent the door from being opened.

My invention relates to a removable and portable auxiliary keyless door-locking or closure-securing device and an important object of my invention is to provide a simple inexpensive, lightweight, nonmarring, efficient easily-operable and durable lock which may be carried by a traveler and applied with equal ease and facility, and positive locking effect, to doors of all materials, of thick and thin construction, right and/or left-hand swing, doors hung in jambs and casings of wood or metal, with or without trim, and, being so applied, will hold such door tight and secure against being forced open from the outside.

I accomplish the above objects by means of the device described herein and illustrated in the accompanying drawings, in which:

FIGURE 1 is a plan view of my improved keyless lock in place on a door opening, with closure in place and secured.

FIGURE 2 is a flat or side view of my invention.

FIGURE 3 is an end view of my invention, showing Two (2) hooks extending from one side of body or plate, a riveted sliding abutment member extending from the opposite side of body or plate.

FIGURE 4 is a perspective view of my invention.

Referring to the drawings, 1 designates flat rectangular plate, or body of the device, of metal or other rigid material, with center portions of both narrower ends slitted and bent to form lugs, or hooks 2 which extend at approximately a right angle to said plate 1 or body of the device. Slot 3, of inverted V-shape, is positioned in the center of plate 1, between said hooks, and a sliding abutment member A, permanently attached in said slot, is free to move along its entire length, the abutment member consisting of rivet head 4, rivet shank 5, plastic sleeve 6.

In FIGURE 1, my device is shown in position on a door opening and operating to secure a closure, with hook 2 inserted into a latch-hole in latch-plate 10, with door 7 closed and sliding abutment member A moved along slot 3 to a position where it abuts the closure adjacent to the keeper. (Latch-bolt in door remains in door latch when my invention is used on a closure.) This latch-bolt is not shown in the drawings. Jamb 8 and trim 9

may be of wood or metal; there is no penetration of either by my invention. When door 7 is hinged at right, swinging to left, plate 1 may be reversed so that alternate hook 2, at the other end of said plate is inserted in the latch-hole, and closure-securing may be effected as described above.

FIGURE 2 shows the size, shape and positioning of slot 3 in relation to other elements of my device, with 4a representing rivet head 4 stopped at random point along said slot.

FIGURE 3, an end view, shows how hook(s) 2 extend from side of plate 1 on which is found rivet head 4, while balance of sliding abutment member assembly A, consisting of rivet shank encased in plastic sleeve 6, extends from opposite side of plate 1.

FIGURE 4 is a perspective view of my invention, a one-piece assembly, without removable parts, of simple, durable construction.

In applying my improved closure-securing device to a door opening, hook 2 is first placed in latch-hole in latch striker-plate 10, making sure that slot 3 is in the position of an inverted V. Sliding abutment member A is then moved in slot 3 to point furthest from the door opening. The door is closed and the sliding abutting member is moved in the slot to abut the door, securing the door in a closed position.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A portable door lock for a hingedly-supported door having an edge thereof normally confronting a jamb when said door is in its closed position, said jamb having a substantially rectangular recess extending inwardly thereof and confronting an adjacent edge of said door when said door is in its closed position, a latch-plate fixedly secured to said jamb and having a substantially rectangular aperture extending transversely therethrough and confronting said recess, said door lock comprising a flat plate member having two pairs of parallel ends, with the ends of one of said pairs having struck-out portions bent to form an approximate right angle with the plane of said plate and said portions extending from one side of the plate, a generally inverted V-shaped slot positioned between said struck-out portions and located centrally thereof, a slidable abutment member positioned in said slot and extending at right angles to said slot and the plane of the plate member, with one end of said abutment member extending further from the other side of the plate than from said one side and forming a gripping and abutting portion, said abutment member being normally positioned in the end of said slot remote from the door and jamb, and when one of said struck-out portions is positioned in said latch-plate aperture and door is then closed, said abutment member is moved from the remote end of said slot to the other end of the slot thereby abutting said door and said latch-plate to hold the door in closed position.

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