C. M. ANDERSON.

DOOR LOCK.

APPLICATION FILED OCT. 27, 1917.

1,332,193. Patented Mar. 2, 1920.

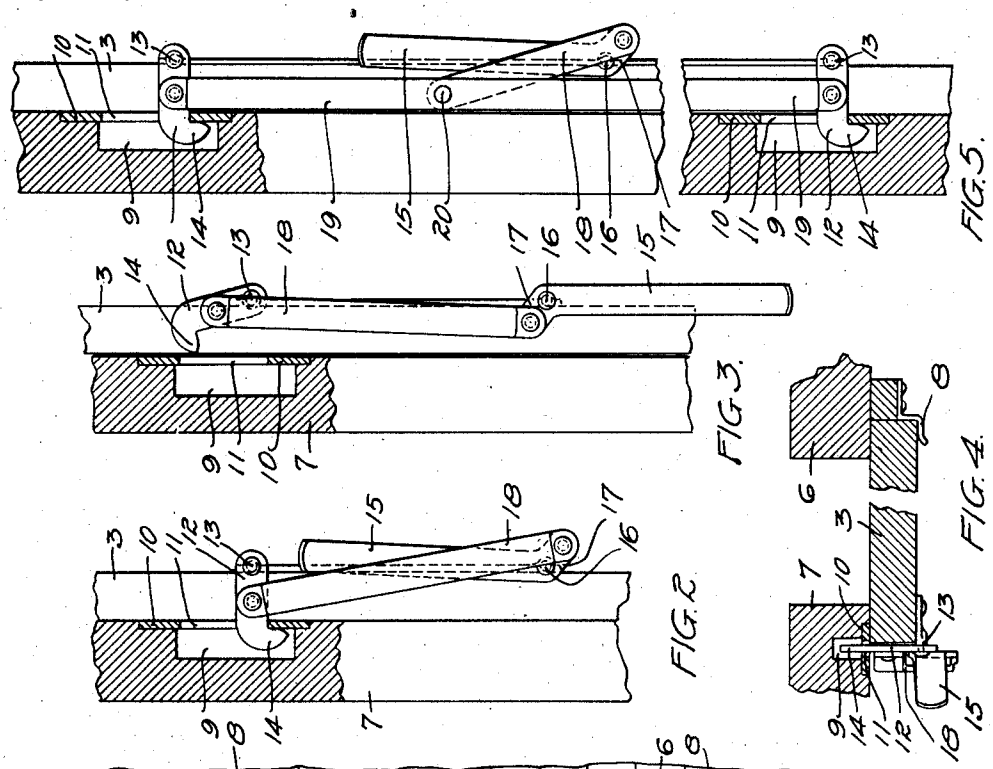


FIG. 5.

FIG. 3.

FIG. 4.

FIG. 2.

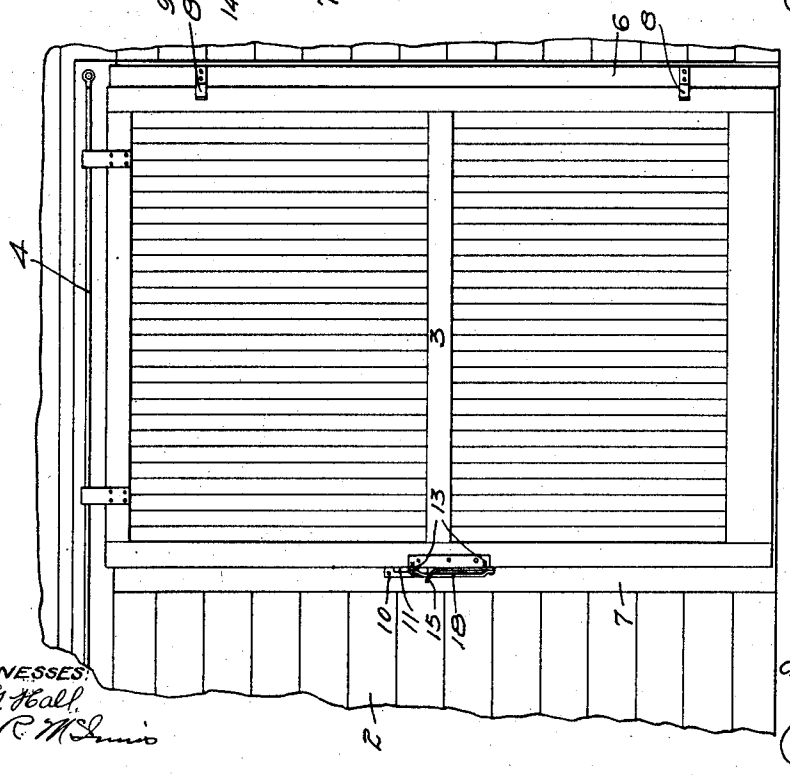


FIG. 1.

WITNESSES:
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UNITED STATES PATENT OFFICE.

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DOOR-LOCK.

1,332,193. Specification of Letters Patent. Patented Mar. 2, 1920.

Application filed October 27, 1917. Serial No. 198,813.

To all whom it may concern:

Be it known that I, CARL M. ANDERSON, a citizen of the United States, resident of Havana, county of Sargent, State of North Dakota, have invented certain new and useful Improvements in Door-Locks, of which the following is a specification.

The object of my invention is to simplify and improve the device shown and described in Letters Patent of the United States, and issued to me February 20, 1917, No. 1,216,765.

Other objects of the invention will appear from the following detailed description.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claim.

In the accompanying drawings forming part of this specification,

Figure 1 is an outside view of a portion of a building, illustrating a sliding door with my invention applied thereto,

Fig. 2 is a detail sectional view, showing the device in its locking position,

Fig. 3 is a similar view, showing the lock in its released position,

Fig. 4 is a transverse sectional view through the door casing and a portion of the door, with the lock in its closed position,

Fig. 5 is a detail sectional view of a modified construction.

In the drawing, 2 represents the wall of a building having a door opening and a sliding door 3 supported on a suitable track 4. 6 and 7 represent the door posts on opposite sides of the opening. Brackets 8 are mounted on the post 7 in the path of the door to form stops therefor and also to hold the edge of the door against the post 6. The post 7 is provided with a recess 9 therein having a plate 10 secured to the post over the recesses and provided with a slot 11. A latch 12 is mounted at 13 on the door and has a hooked end 14 to enter the slot 11 and lock the door securely against opening. A lever 15 is pivoted at 16 on the door and has a toggle extension 17 at its pivoted end to which one end of a link 18 is pivoted. The other end of said link is pivoted to the middle portion of the latch 12. When the lever 15 is raised to its locking position, its pivotal connection with the link 18 will be moved past the center of the pivot 16 and the latch 12 will thereby be locked and when the lever is swung to the position shown in Fig. 3, its pivotal connection with the link 18 will be moved to the other side of the pivot 16 and the latch 12 will thereby be raised and disengaged from the plate 10 and withdrawn from the slot 11.

In Fig. 5 I have shown a modified construction, which consists in providing two latches, as in my patent above referred to, pivotally connecting them by a bar 19, the link 18 being pivotally connected at 20 to the middle portion of this bar instead of to one of the latches, as in the previously described construction, and I mount the bar 19 between the hooks and the pivots of the latches instead of on the outer ends of the latches. The device is therefore more compact, less metal is required in its manufacture, and it is therefore less expensive to put on the market.

I claim as my invention:

The combination, with a door post having a recess therein and a slotted plate fitting over said recess, of a door, a latch pivoted at one end near the inner face of the door and extending transversely thereof and having a hooked end to enter the slot in said plate and engage the edge of the slot, a lever pivoted near one end adjacent the inner face of the door and having a comparatively short offset extension on one side of its pivot, said lever being adapted to swing toward and from the adjacent face of the door, and a link pivotally connected with said lever extension and at one end with said latch at a point intermediate to its pivot and its hooked end, movement of said lever swinging the pivot of connection of said link thereon past the pivot of the lever to move said latch to its locking or releasing position, and lock it in such position.

In witness whereof I have hereunto set my hand this 18th day of Oct. 1917.

CARL M. ANDERSON.

Witnesses:
H. J. PFEIFFER,
C. E. CASTLE.