Aug. 14, 1928. 1,681,147

L. A. DEXTER

LOCKING ROSETTE

Filed March 22, 1927

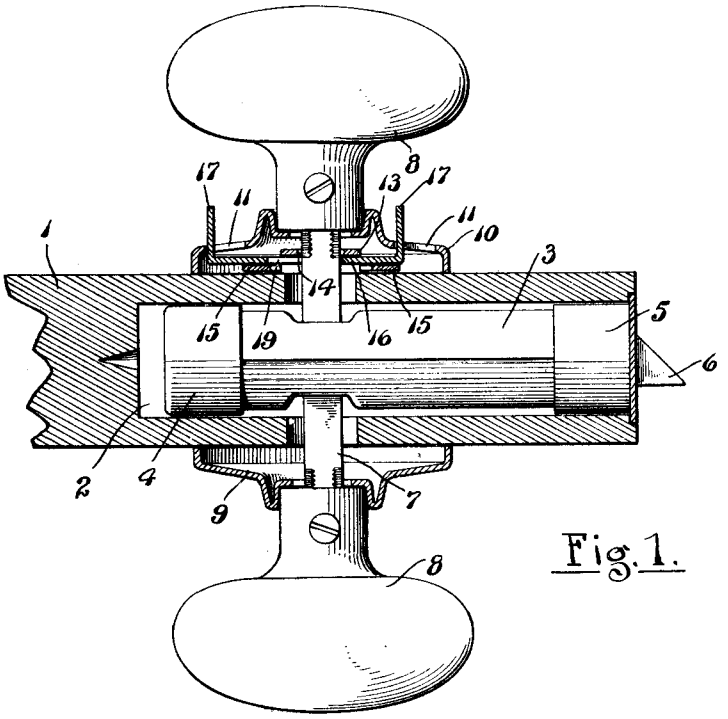


Fig. 1.

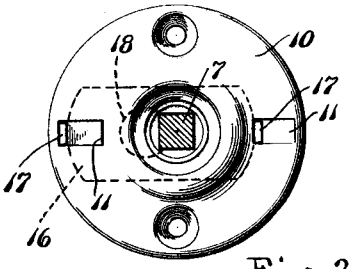


Fig. 2.

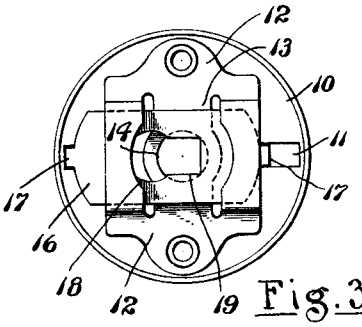


Fig. 3.

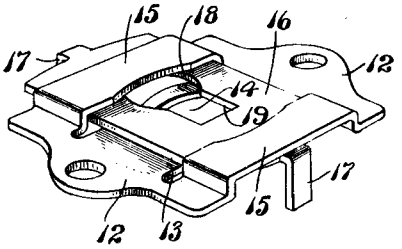


Fig. 4.

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UNITED STATES PATENT OFFICE.

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LOCKING ROSETTE.

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This invention relates to a locking rosette which may be applied to the regular door latch and which is very easily operable to lock an operating bar on which the knob used with such latch is mounted against movement whenever it is desired, and quite as easily operable to unlock the same for operation. The rosette of my invention is one which is readily substituted to take the place of the ordinary and well known standard rosette used so that it may be applied to door latches either when the same are first installed or later. And the particular type of door latch itself which is used is not of importance with respect to the locking rosette of my invention as such rosette is practically universal in its application.

The invention has for its object and purpose the production of a locking rosette of the character stated capable of attaining the ends described. An understanding of the invention may be had from the following description taken in connection with the accompanying drawing, in which,

Fig. 1 is a fragmentary horizontal section at one edge of a door equipped with a door latch and having the locking rosette of my invention applied thereto.

Fig. 2 is an elevation of the locking rosette of my invention.

Fig. 3 is an elevation of the construction shown in Fig. 2 looking at the opposite side thereof, and

Fig. 4 is a perspective view of the mechanism which is located within the rosette to serve the locking functions stated.

Like reference characters refer to like parts in the different figures of the drawing.

In the construction shown, the door 1 of any conventional form has a mortice 2 made at its free vertical edge in which the latch housing 3 is received, that shown being of cylindrical form made of two half cylindrical parts, the ends of which are connected and held together by an inner cap 4 and an outer sleeve 5 through the end of which the latching bolt 6 normally projects. The latch illustrated is of a character previously patented by me, but the present invention is not necessarily limited in its use to any particular form or shape of door latch construction. It is enough that the latch bolt is operated so as to be retracted by means of an operating bar 7 which extends transversely through the door and through the housing of the latch and is operatively associated with bolt 6 so that turning the bar 7 retracts the bolt for opening the door. The great majority of door latches used in houses, building, and the like are operated by a bar like that shown at 7, square in cross section and extending through the door, the projecting ends of which carry door knobs 8 which are detachably secured to the ends of the bar 7 in an old and well known manner.

At each side of the door where the bar 7 passes therethrough a rosette, usually of sheet metal, is located the inner end of the knob being seated in a shallow circular recess in said rosette and the bar 7 passing therethrough. The rosettes commonly used are of the type indicated at 9 in Fig. 1 at one side of the door. When my invention is installed on the door it will be installed only at one side, that is, the inner side of the door, and Fig. 1 shows the conventional type of rosette at 9 at the outer side of the door.

The rosette of my invention shown at the side of the door opposite that at which the conventional form indicated at 9 is located, has a shell 10 of sheet metal identical in construction with the rosette 9 except that at opposite sides of its center it is formed with slots 11, the two slots lying in alignment. Within the shell 10 and between it and the door the locking mechanism associated with the rosette is placed being covered and disguised by the shell 10. It comprises a plate of sheet metal formed at opposite sides with ears 12 with openings therethrough adapted to come into conjunction with the openings made in the shell 10 for the passage of screws to attach the same to the door. The ears 12 are connected by an integral cross member 13 in which a circular opening 14 is made for the passage of the operating bar 7. The metal of this plate at each side of the cross bar 13 is pressed inwardly and offset from the plane of the bar 13 to make two cross connecting bars 15 which, with the cross bar 13, provide a guide for the slidable mounting of a locking bar 16 of flat metal having a lip 17 turned outwardly at each end and adapted to pass through the slots 11 in the shell 10.

Between the ends of the locking bar 16 an opening of keyhole form is made. One end is of substantially circular form, as at 18,

and the other end of substantially rectangular form as indicated at 19. The bar 16 is slidable to two extreme positions in one of which the operating bar 7 passes through the circular portion 18 and is free to turn, while at the other it is located through the rectangular portion 19 and is held against any turning movement.

It is evident that the locking bar 16 may be very readily moved to either of these positions. It is always moved by pushing against the proper lip 17, it never being necessary to move the bar by a pulling force upon a lip 17. The locking bar 16 is very easily operated. The lips 17 are located so as to be immediately accessible by the fingers of the one grasping the door knob at the inner side of the door. If the knob cannot be turned this is evidence that the locking bar is in operative position and it is necessary only to push the bar 17 to its outer extreme position of movement. It is quite easy to move the bar to locking position.

It is evident that the locking rosette which I have invented is readily substituted for the usual rosette used. It occupies the same position and so far as outer form is concerned is identical with it. This permits installation of the same very quickly and easily on the doors which are already provided with door latches. The construction is simple and inexpensive to make. The parts are of sheet metal and can be produced in large quantity at low cost by suitable dies. The construction has proved very practical and serviceable.

The invention is defined in the appended claims and is to be considered comprehensive of all forms of structure coming within their scope.

I claim:

1. The combination with a door and door latch having a latch bolt and a rotatable shaft to actuate the latch bolt of a rosette adjacent one surface of the door through which the rotatable shaft passes, means for attaching the rosette to the door, a locking bar located within said rosette associated with said rotatable shaft and having an operating member extending outside of the rosette and means for slidably mounting said locking bar comprising a member having a guide through which said locking bar slides, said guide being attached to the rosette and having openings through which the means for fastening the rosette to the door extend.

2. The combination with a door and door latch having a latch bolt and a rotatable shaft to actuate the latch bolt of a rosette through which said rotatable shaft passes attached to a surface of the door, a locking bar located within the rosette and associated with the rotatable shaft and having an operating member extending outside of the rosette and means for slidably mounting said locking bar comprising a sheet metal member having a central opening through which the rotatable shaft passes, said sheet metal member being slotted at two places, one on each side of said central opening, the member being bent so that the metal between said slots extends on one side of the locking bar and the metal at the outside of each slot extends on the other side of the locking bar and means for attaching said mounting member within the rosette.

In testimony whereof I affix my signature.

LUCIEN A. DEXTER.