Aug. 11, 1925. 1,549,602

E. O. MURMANN

DOORLOCK

Filed May 2, 1922

Fig. 1.

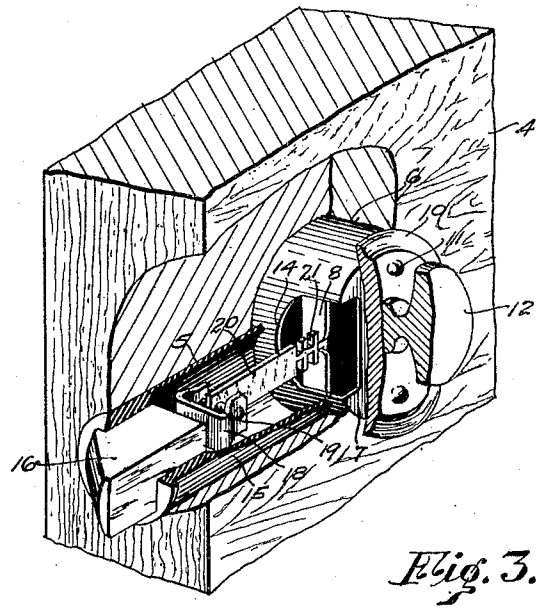


Fig. 3.

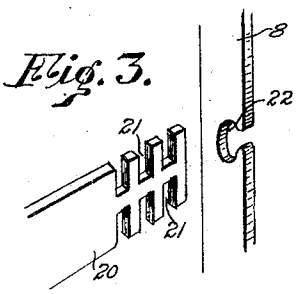
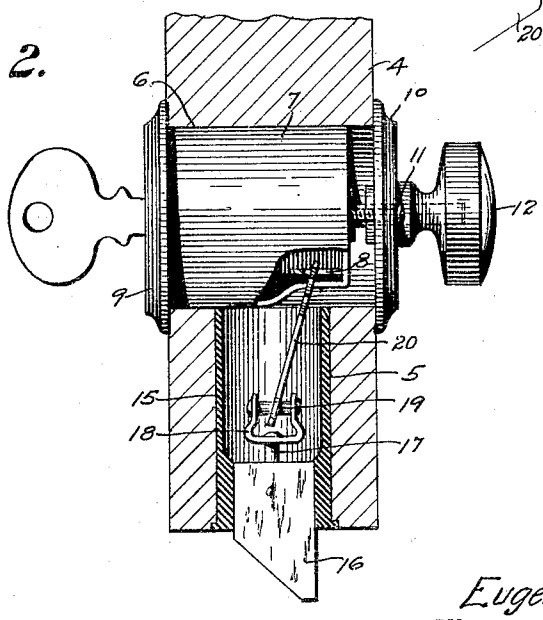


Fig. 2.



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UNITED STATES PATENT OFFICE.

EUGENE O. MURMANN, OF GLENDALE, CALIFORNIA.

DOORLOCK.

Application filed May 2, 1922. Serial No. 557,945.

To all whom it may concern:

Be it known that I, EUGENE O. MURMANN, a citizen of the United States, and resident of Glendale, in the county of Los Angeles and State of California, have invented new and useful Improvements in a Doorlock, of which the following is a specification.

This invention relates to a door lock and pertains to a type of lock which may be embedded in the door and will serve the purpose of a mortise or rim lock. The primary object of this invention is to provide a lock which does not detract from the appearance of the door and is simple in construction. Another object of this invention is to provide a lock which requires a minimum of labor and skill in its installation. A further object of this invention is to provide a lock having a latch bolt adapted to be adjustably and detachably coupled to the remainder of the lock mechanism which is preferably housed within a casing.

These objects together with other objects and corresponding accomplishments are obtained by means of the embodiment of my invention illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a fragment of a door with my improved lock installed therein; Fig. 2 is a horizontal section through the door fragment shown in Fig. 2; and Fig. 3 is a fragmental perspective view of the coupler.

Referring more particularly to the drawing, 4 indicates a door having a cylindrical recess 5 drilled therein from the edge. Intersecting this recess is a cylindrical opening extending from one side of the door to the other and indicated by 6. This opening is designed to receive the lock casing. Disposed in the opening 6 is a cylindrical casing 7 containing a lock mechanism except for the bolt. The exact details of this lock are not pertinent to the invention. However, there is a coupler bar 8 which may be reciprocated by the cylinder. One side of the casing 7 has a plate 9 which overhangs the case and will engage the side of the door. The plate 9 has a keyhole for the reception of a key. An independent plate 10 of a similar form is secured to the casing by means of screws 11. This plate carries a knob 12 which may be arranged to operate the bar 8. This is the usual inside knob for a lock. The casing 7 has an opening 14 to provide means of access to the coupler bar 8 and for coupling a bolt thereto. Disposed within the recess 5 is a latch bolt housing 15 of cylindrical form and having a square opening through which the bolt 16 projects and in which it is guided. The bolt 16 has the usual external appearance and secured to the back thereof is a stem 17 having a yoke 18 swivelled thereon. Extending between the arms of the yoke is a pin 19, and loosely mounted thereon is a draw bar 20. This bar is loosely mounted so that the effect is to provide a universal joint between the bolt and the bar. The draw bar has at its end oppositely disposed indentations to form in effect oppositely disposed serrations. In the bar 8 is a recess so that the bar 20 may be coupled to bar 8 in the manner indicated in Fig. 1. By this means a variation in the width of the door and in the fitting of parts may be provided for. Due to the universal joint connection between the bar 20 and the bolt, the latter will not become wedged in its housing.

What I claim is:

1. In a door lock, a bolt, a case having a reciprocable coupler bar, a draw bar secured to said bolt by an articulation and having an adjustable coupling means for detachably connecting said bolt and said coupler bar.

2. In a door lock, a bolt, a case having a reciprocable coupler bar, a draw bar secured to said bolt by a universal joint, said draw bar having adjustable coupling means for connection to said bolt coupler bar.

3. In a door lock, a bolt, a case having a reciprocable coupling comprising a bolt coupler bar having a slot, a draw bar secured to said bolt and having a serrated coupling end for disposal in said slot.

4. In a door lock, a bolt, a case having a reciprocable coupling comprising a bolt coupler bar having a slot, a draw bar secured to said bolt by a universal joint, said draw bar having a serrated coupler end for disposal in said slot.

In witness that I claim the foregoing I have hereunto subscribed my name this 24th day of April, 1922.

EUGENE O. MURMANN.