R. R. LEEDS.

COMBINED GUIDE AND LOCK FOR CREMORNE BOLTS.

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1,158,816.

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Fig. 1.

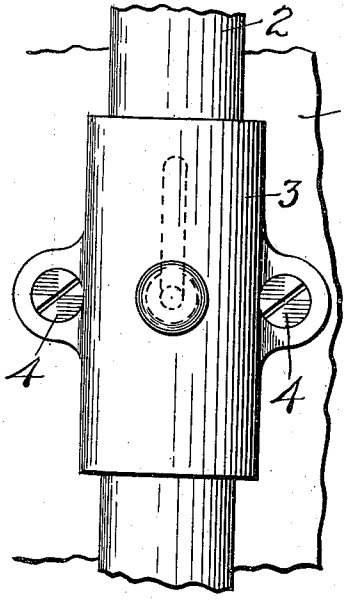


Fig. 2.

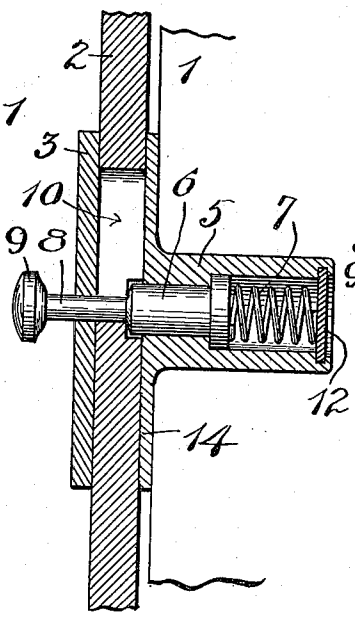


Fig. 3.

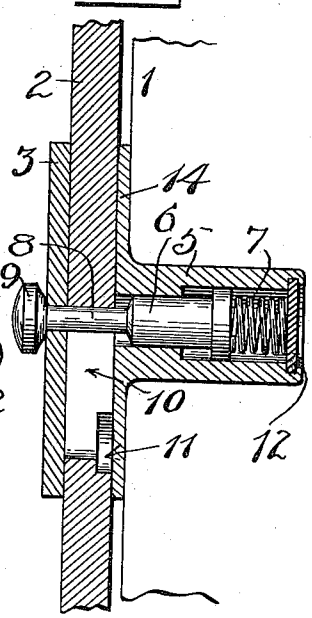


Fig. 4.

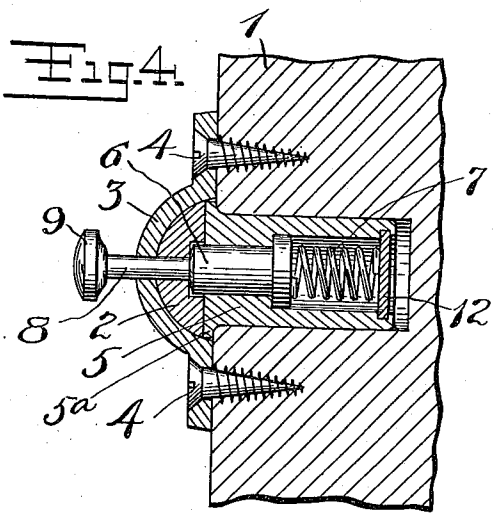
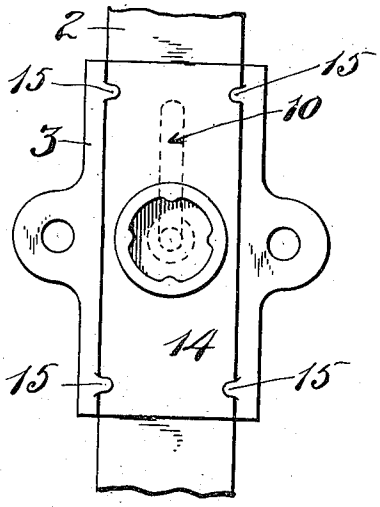


Fig. 5.



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ROBERT RUSSELL LEEDS, OF NEW ROCHELLE, NEW YORK, ASSIGNOR TO THE AMERICAN HARDWARE CORPORATION, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

COMBINED GUIDE AND LOCK FOR CREMORNE BOLTS.

1,158,816. Specification of Letters Patent. Patented Nov. 2, 1915.

Application filed August 19, 1915. Serial No. 46,373.

To all whom it may concern:

Be it known that I, ROBERT RUSSELL LEEDS, a citizen of the United States of America, residing at New Rochelle, New York, have invented a new and useful Combined Guide and Lock for Cremorne Bolts, of which the following is a specification.

My invention relates to improvements in Cremorne bolts and particularly to an improved guide and locking means therefor.

In the accompanying drawings, Figure 1 is a front elevation of that much of a bolt and guide necessary to a complete understanding of my invention. Fig. 2 is a vertical section thereof. Fig. 3 is a similar view showing the parts in a different position. Fig. 4 is a horizontal cross section. Fig. 5 is a rear elevation.

1 represents conventionally part of the door frame.

2 represents part of a Cremorne bolt which, as is well known, is movable up and down, for the purpose of locking and unlocking the door, any suitable means being provided to move the bolt.

3 represents the main body of a guide through which the bolt 2 passes, which guide is designed to be secured to the face of the door frame 1, as by means of screws 4—4.

5 represents a socket arranged to the rear of the guide 3 in which socket is yieldingly mounted a locking bolt 6 in the form of a plunger.

7 is a suitable spring arranged in the socket 5 and designed to yieldingly press the locking bolt 6 outwardly.

8 is a stem projecting outwardly from the end of the plunger locking bolt 6, which stem 8 may pass through a hole located centrally in the guide body 3. The outer end of the stem may have a suitable thumb-piece or button 9. The bolt 2 is provided with a longitudinal slot of sufficient width throughout to afford clearance for the stem 8. At a suitable point in the back of the bolt 2 and adjacent to the slot 10, is an enlarged cavity 11 of appropriate size and shape to receive the outer end of the plunger bolt 6. In the drawings this enlarged cavity 11 is located near the bottom of the slot 10, so that when the bolt 2 is moved to its door locking position, the plunger bolt 6 will spring outwardly into the position shown in Fig. 2 where it will serve to lock the bolt 2 in its door locking position.

The socket 5 may have a flange 5^a to limit the degree to which it may be inserted into the bore in the door frame 1, and if desired, the plunger bolt 6 may have a flange 6^a arranged to engage a shoulder within the socket to limit the outward movement of said plunger as shown in the drawings. In the preferred form, the spring 7 is an ordinary spiral spring held in place by a keeper plate 12. If desired, the socket 5 may be secured to the back of the main body 3 of the guide.

At the back of the main body of the guide is ordinarily provided a back plate 14 which may be held in place by nibs 15—15 or otherwise, as shown. The socket 5 is formed integrally with the back plate 14, but, of course, this is not essential. While I have shown the enlarged cavity 11 as located at the lower end of the clearance slot 10, this cavity 11 might be located in any suitable position relatively to the slot so as to receive the plunger bolt 6 when it is desired to hold the bolt in a fixed position.

What I claim is:

1. In a combined guide and locking means for a Cremorne bolt, a main guide frame having a guide passage for said bolt, a spring actuated plunger bolt located at the rear of said guide frame, an operating stem projecting outwardly therefrom and through said frame, a Cremorne bolt rod located in said guide passage, and having a longitudinal slot to afford clearance for said stem, part of said slot being enlarged to receive said plunger bolt.

2. In a combined guide and locking means for a Cremorne bolt, a main guide frame having a guide passage at its rear for said bolt, a spring actuated locking device at the rear of said passage for said bolt, an operating stem leading forwardly from said device and through said guide frame, said bolt having a clearance slot for said stem and having a cavity adjacent to said slot for said locking device.

3. In a combined guide and locking means

for a Cremorne bolt, a main guide frame having a guide passage at its rear for said bolt, a spring actuated plunger bolt at the rear of said passage for said Cremorne bolt, a socket for said plunger bolt, a spring in said socket at the rear of said plunger bolt, said Cremorne bolt having a longitudinal slot, said plunger having an outwardly projecting stem passing through said slot and through said guide frame, a relatively enlarged cavity adjacent to said slot arranged to receive said plunger bolt.

ROBERT RUSSELL LEEDS.

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