G. N. MASON.

KNOB POSITIONING DEVICE FOR DOOR LOCKS.

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1,099,659. Patented June 9, 1914.

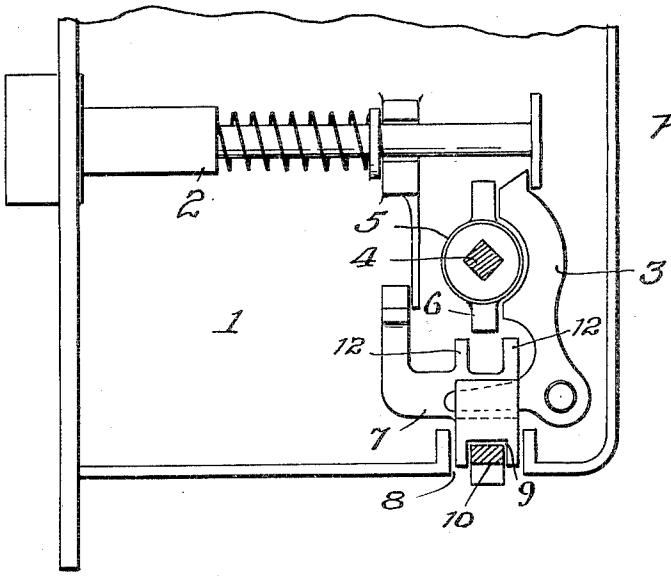


Fig. 1.

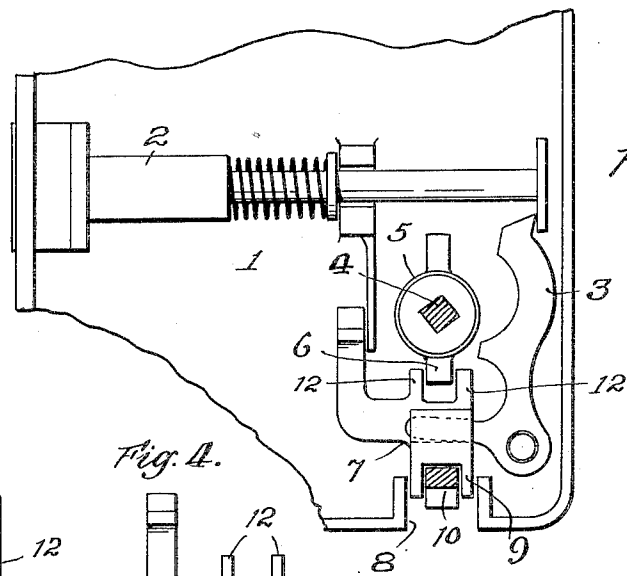


Fig. 2.

Fig. 3.

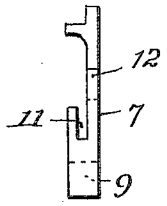
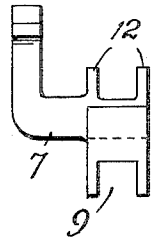


Fig. 4.



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UNITED STATES PATENT OFFICE.

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KNOB-POSITIONING DEVICE FOR DOOR-LOCKS.

1,099,659. Specification of Letters Patent. Patented June 9, 1914.

Application filed February 26, 1914. Serial No. 821,113.

To all whom it may concern:

Be it known that I, GEORGE N. MASON, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Knob-Positioning Devices for Door-Locks, of which the following is a specification.

This invention relates to improvements in door locks and the object is to provide means for positioning the knob when the latch bolt is retracted, so as to insure its retaining proper position.

The invention is intended more particularly for use on locks in which an oval knob is used, in which case the knob, when not properly positioned, will assume a position other than vertical and present the appearance of a carelessly made lock or one in which the parts have become disorganized.

With my present device, the operation of the latch for retracting the latch bolt, will operate a slide and cause it to engage with the knob hub and hold it against turning in the lock, thus insuring the knob against assuming an awkward looking position.

The invention is more fully described in the following specification and clearly illustrated in the accompanying drawing, in which:—

Figure 1 is a plan view of a simple construction of a lock, partly broken away, and showing my invention applied thereto, with the latch bolt in projected position. Fig. 2 is a like view, with the latch bolt retracted and the slide in raised position. Figs. 3 and 4 are detail views, showing the front and side view of the slide.

The numeral 1 designates the casing, 2 the spring backed latch bolt and 3 the latch retracting lever.

The numeral 4 designates the knob spindle and 5 the hub. This hub is formed with a depending lug 6.

The numeral 7 designates a slide, mounted to move in a slot 8 in the lower edge of the casing, and provided at its lower end with a jaw 9 for engagement by a thumb latch 10, by means of which the said slide is made to move vertically. This slide is formed with a transverse slot 11 in which one end of the latch bolt retracting lever 3 is engaged.

The slide is provided with a pair of upwardly projecting lugs 12, lying parallel with each other and so arranged that when the slide is moved up, the lugs will permit the lug 6 on the hub 5 to enter the space between them, and in which position they will effectually prevent rotation of the hub, with its spindle and consequently maintain the proper position or alinement of the knob.

It is evident that the operation of the thumb latch will retract the latch bolt through the lever 3 at the same time that it raises the slide into engagement with the hub—that is, when the latch bolt is retracted through the thumb latch the knob hub would be free to rotate partly, thus throwing the knob out of vertical alinement and presenting an unsightly appearance, but, with my improved slide, the actuation of the bolt through the thumb lever also carries the lugs on the slide into engagement with the lug on the hub and holds it against accidental turning.

What I claim is:

1. The combination of a casing, a spring projected latch bolt, means for retracting said bolt including a pivoted lever, a knob spindle, a hub formed with a central depending lug, a vertically movable slide member adapted to actuate said lever to retract the bolt, said slide having a pair of upwardly projecting lugs adapted to embrace the lug on the hub to prevent rotation of said hub while the bolt is so retracted, and a thumb lever for raising said slide into engagement with the lug on the hub, substantially as and for the purpose set forth.

2. The combination of a lock casing, a latch bolt, a lever pivotally mounted in the casing and having one end in engagement with the bolt, a knob spindle hub having a central depending lug thereon, a vertically movable slide member adapted for engagement with the other end of the pivoted lever, said slide member having a pair of upwardly projecting lugs between which the lug on the knob is held when the slide is in raised position, and a thumb lever for actuating the slide.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE N. MASON.

Witnesses:

ED. A. KELLY,

CLARA E. YOUNG.