

H. G. VOIGHT.
MORTISE LOCK.
APPLICATION FILED DEC. 28, 1910.

995,818.

Patented June 20, 1911.

2 SHEETS—SHEET 1.

Fig. 1.

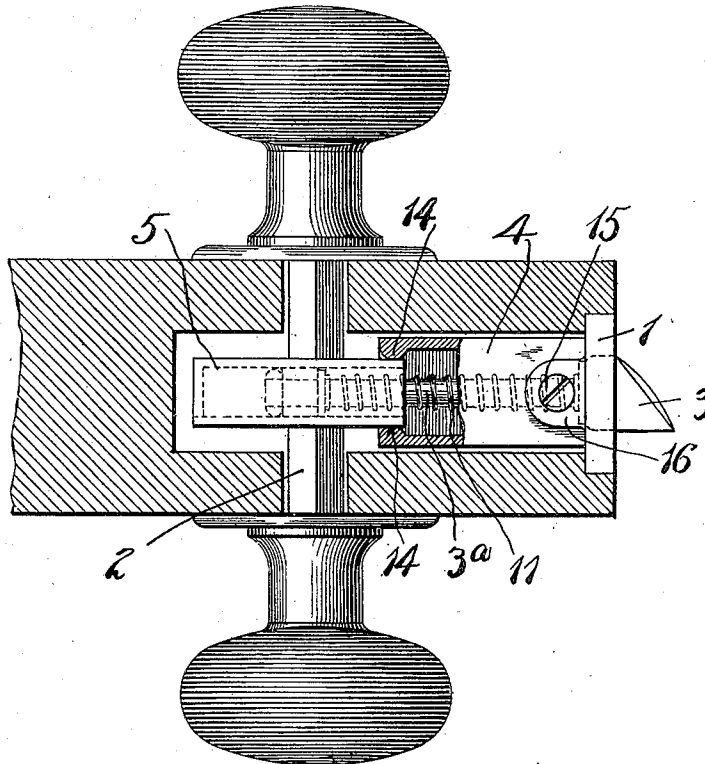
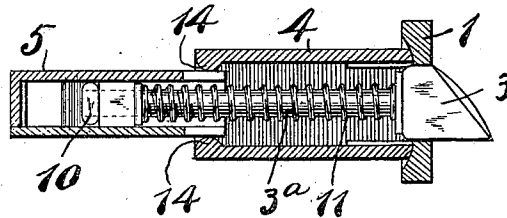


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 4

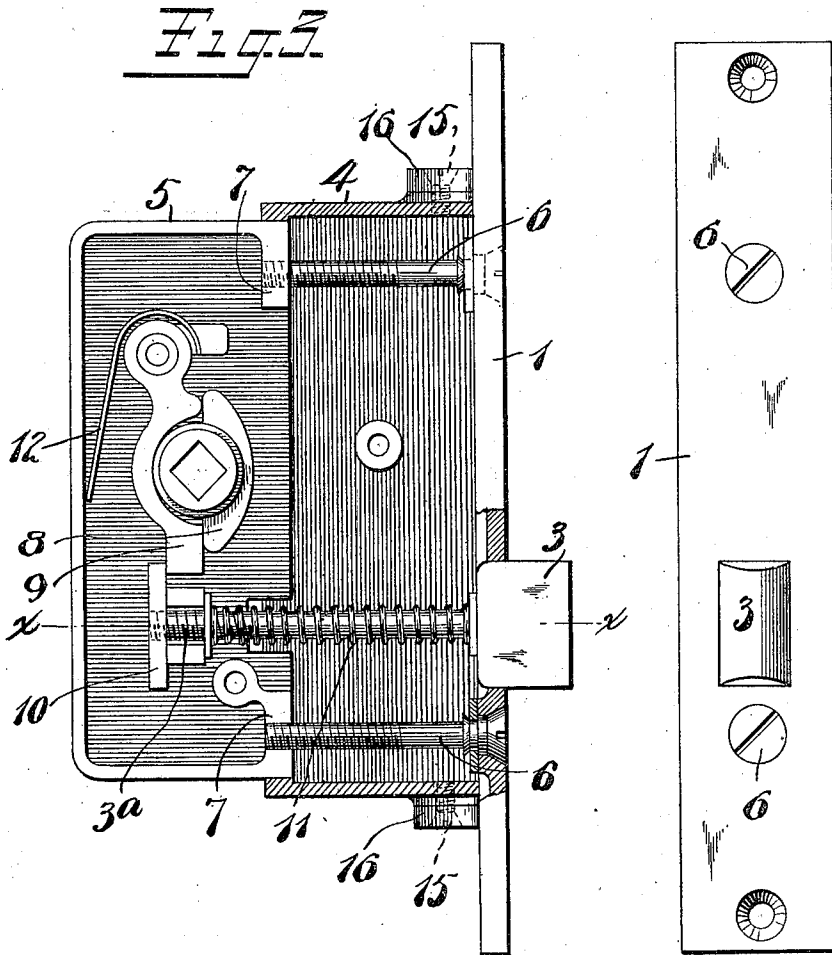


Fig. 5

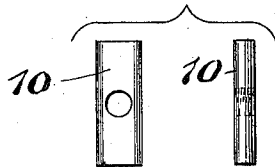


Fig. 6



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UNITED STATES PATENT OFFICE.

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MORTISE-LOCK.

995,818.

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To all whom it may concern:

Be it known that I, HENRY G. VOIGHT, a citizen of the United States, residing at New Britain, Hartford county, State of Connecticut, have invented certain new and useful Improvements in Mortise-Locks, of which the following is a full, clear, and exact description.

My invention relates to improvements in mortise locks, the object being to provide in such a lock improved features of construction whereby the back-set of the knob-spindle from the face-plate may be adjusted.

In the accompanying drawings, Figure 1 is a horizontal section of a portion of a door showing my invention applied thereto, the same being partly in section. Fig. 2 is a horizontal section of the lock alone, taken on the plane of the line $x-x$, Fig. 3, and showing certain parts in elevation. Fig. 3 is a vertical section showing certain parts in elevation. Fig. 4 is a front elevation. Fig. 5 illustrates a detail of construction. Fig. 6 illustrates another detail of construction.

1 represents a face-plate of the lock.

2 represents a knob-spindle.

3 is a latch-bolt projecting through the face-plate 1 arranged to be retracted by the knob-spindle 2 and intervening mechanism.

The purpose of the present improvement is to provide simple means whereby the set-back of the spindle 2 relatively to the latch-bolt 3 and the face-plate 1 may be varied to accommodate the lock to different widths of door stiles. To that end, in this case I make the lock-case itself of two adjustable sections 4-5. In this instance the section 5 slides within the section 4.

6-6 are adjusting screws. In this instance, the outer ends of said screws are accessible at the outer side of the face-plate 1, the inner ends of the screws taking into threaded bearings 7-7 at the front of the case section 5. The spindle passes through the case section 5 and bears the usual roll-back 8, connected by a lever 9 with an adjustable nut 10 on the tail end 3^a of the latch-bolt 3.

11 is the usual spring for projecting the latch-bolt.

12 is the usual spring for restoring the roll-back to its normal position.

To adjust the lock to door stiles of different widths, it is merely necessary to turn

the screws 6-6 to the desired extent, so as to move the section 5 to and fro in the section 4. In the drawings, Fig. 3, I have shown the lock as adjusted for the maximum set-back. If a lever set-back is desired, it is merely necessary to turn the screws 6-6 in a direction to draw the section 5 into the section 4 to the necessary extent. The nut 10 should also be screwed up on the tail end 3^a of the latch bolt 3. If sufficient clearance is not had for that part of the tail end 3^a to the rear of the nut, the same may be cut off, since when the lock is once adjusted to the particular door stile for which it is intended, no change of adjustment is thereafter required.

I have shown and described my invention in its simplest form, it being obvious that various changes may be made. As shown in Figs. 1 and 2, the case section 5 is somewhat narrower than the inside width of the case section 4, suitable guide bosses 14-14 being provided on one or the other of said sections, said bosses serving to guide and steady the parts 4-5. By giving this clearance it is possible to tilt the two sections 4-5 out of the same plane, whereby the face-plate 1 may be adjusted to a beveled edge door. Furthermore, by this arrangement there is less danger of binding or cramping of the parts. The face-plate 1 is preferably held by pivot screws 15-15 to the case section 4, lugs 16-16 being formed on the back of the face-plate to receive said screws. By this arrangement, the face-plate itself may be tilted slightly relatively to the section 4, thus affording another means for adapting said plate to a door having a beveled edge.

By the foregoing improvement it is possible for a hardware dealer to stock up with a comparatively small line of locks, since, said locks being adjustable to door stiles of different widths, it obviates the necessity of carrying in stock all the various sizes to meet all the varying requirements.

What I claim is:

1. In a mortise lock, a case composed of two sections, one section being slidable within and adjustable relatively to the other, a face-plate carried by one section, a latch-bolt carried thereby, a knob-spindle passing through the other section, a roll-back, and adjustable means of connection between said roll-back and latch.

2. In a mortise lock, a case, a face-plate,

a latch-bolt, a knob-spindle and means for adjusting said knob-spindle back and forth relatively to part of the lock-case, said means comprising a two-part case, one part fitting within the other and adjustable to and fro, and means for adjusting the bolt relatively to the spindle.

3. In a mortise lock, a case composed of two sections, one section being adjustable relatively to the other, a face-plate carried

by one section, a latch-bolt carried thereby, a knob-spindle passing through the other section, a roll-back, adjustable means of connection between said roll-back and latch, and means whereby both sections may be swung out of vertical alinement.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
