No. 837,607. PATENTED DEC. 4, 1906.

L. D. CARTER.

DOOR KNOB FASTENER.

APPLICATION FILED SEPT. 28, 1904.

Fig. 1.

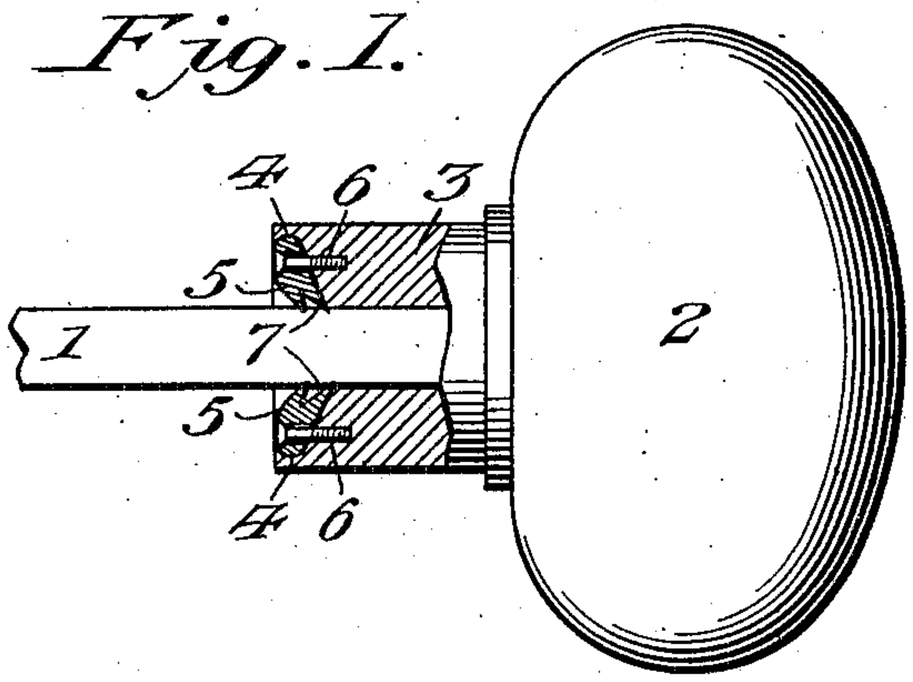


Fig. 2.

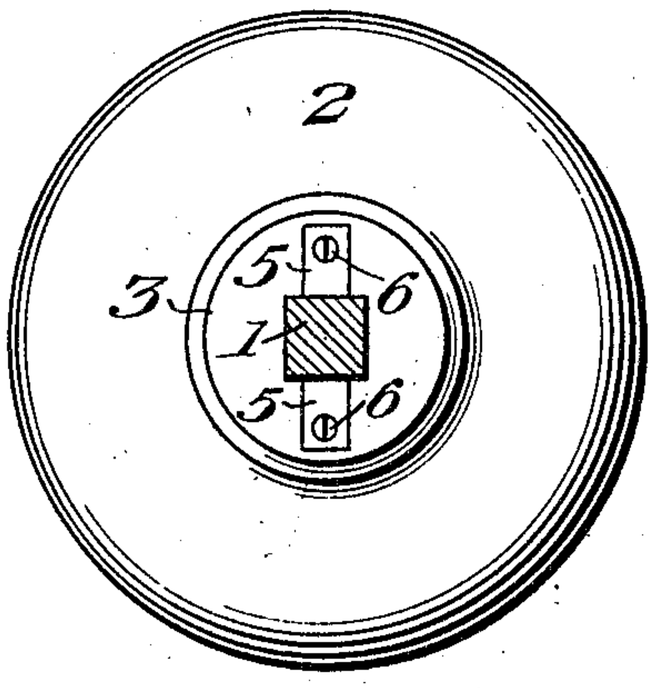
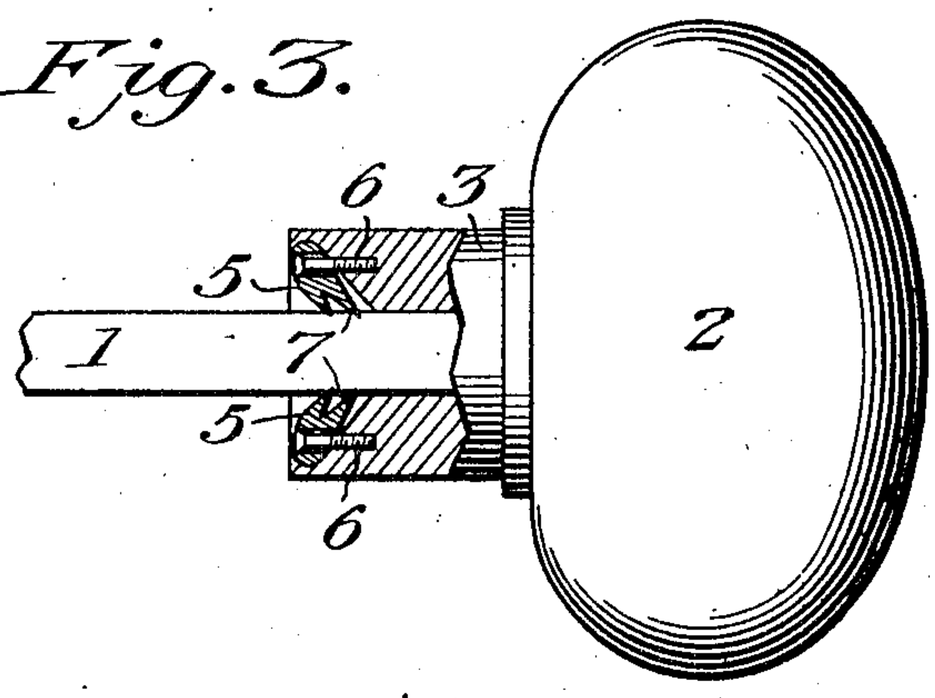


Fig. 3.



Witnesses

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DOOR-KNOB FASTENER.

No. 837,607. Specification of Letters Patent. Patented Dec. 4, 1906.

Application filed September 28, 1904. Serial No. 226,372.

To all whom it may concern:

Be it known that I, LLEWELLYN D. CARTER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in an Automatic Door-Knob Fastening, of which the following is a specification.

This invention relates to door-knob fasteners, and has for its objects to produce a simple inexpensive device of this character wherein the knobs may be readily adjusted upon the spindle to accord with the thickness of the door and one in which the locking members or pawls will securely and automatically engage the spindle and prevent removal of the knob therefrom.

With these and other objects in view the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a side elevation of a knob and a portion of its spindle, showing one form of embodiment of invention, the knob-shank being shown partly in section. Fig. 2 is an inner end elevation showing the spindle in section. Fig. 3 is a view similar to Fig. 1, showing another form of embodiment of the invention.

Referring to the drawings, 1 designates a knob-spindle, having disposed on one end thereof a knob 2, provided with a shank 3, these parts, except as hereinafter described, being of the usual or any approved construction and material.

Formed at the normally inner end of the shank 3 and respectively at opposite sides of the spindle 1 is a pair of recesses 4, each having mounted therein a locking member or pawl 5, secured in place preferably by means of a screw or other fastening member 6 and having its inner active end provided with teeth or serrations 7, pitched or inclined toward the outer or knob end of the shank 3, it being mentioned in this connection that the members or pawls 5 are adapted for a slight amount of play or oscillation within the recesses or seats 4.

In practice the spindle 1 is entered, as usual, through the door, it being understood, of course, that said spindle is equipped with a second knob adapted to lie upon the face of the door opposite the knob 2. After entrance of the spindle to position within the door the knob 2 may be readily moved inward longitudinally of the spindle 1 to accord with the thickness of the door. During movement or adjustment of the knob 2 upon the spindle the locking members will yield sufficiently to permit free relative movement of the parts, it being apparent, however, that an attempt to withdraw the knob from the spindle causes the teeth or serrations 7 to bite into the latter, thus securely and automatically locking the knob against removal.

In Fig. 3 there is shown a slightly-modified form of the device in which the seats or recesses 4′ are of a size to insure a considerable amount of play of the members or pawls 5 within said recesses. In other respects the construction and operation of this form of the device are identical with that above described.

From the foregoing it is apparent that I produce a simple inexpensive device of this character which in practice will admirably perform its functions to the attainment of the ends in view, it being understood that minor changes may be made in the details of construction without departing from the spirit of the invention.

Having thus described my invention, what I claim is—

1. In a device of the class described, a knob-spindle, a knob adapted for longitudinal movement thereon, one of said parts being provided with a pair of oppositely-disposed transverse recesses, and locking-dogs mounted for slight oscillation in said recesses and disposed on a line substantially perpendicular to the longitudinal axis of the spindle, said dogs having serrated active faces adapted for engagement with the other part to fix the knob against movement in one direction.

2. In a device of the class described, a knob-spindle, a knob adapted for longitudinal movement thereon, said knob being provided with a pair of oppositely-disposed transverse recesses, and locking-dogs mounted for slight oscillation in said recesses and disposed on a line substantially perpendicular to the longitudinal axis of the spindle, said dogs having serrated, active faces to engage the spindle for fixing the knob against movement in one direction thereon.

In witness that I claim the foregoing I have hereunto subscribed my name this 23d day of September, 1904.

LLEWELLYN D. CARTER.

Witnesses:

CARL G. PACKARD,

C. I. RITCHEY.