

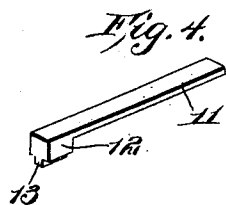
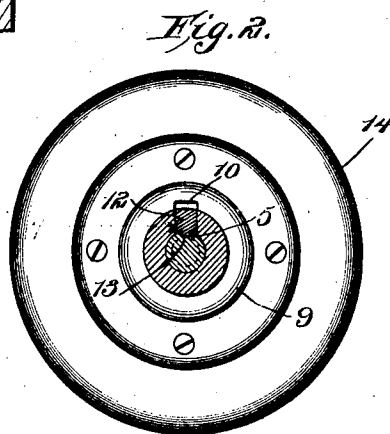
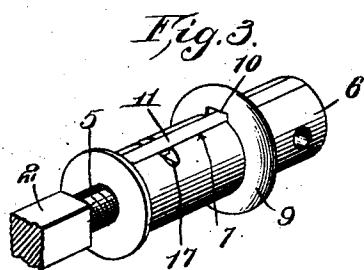
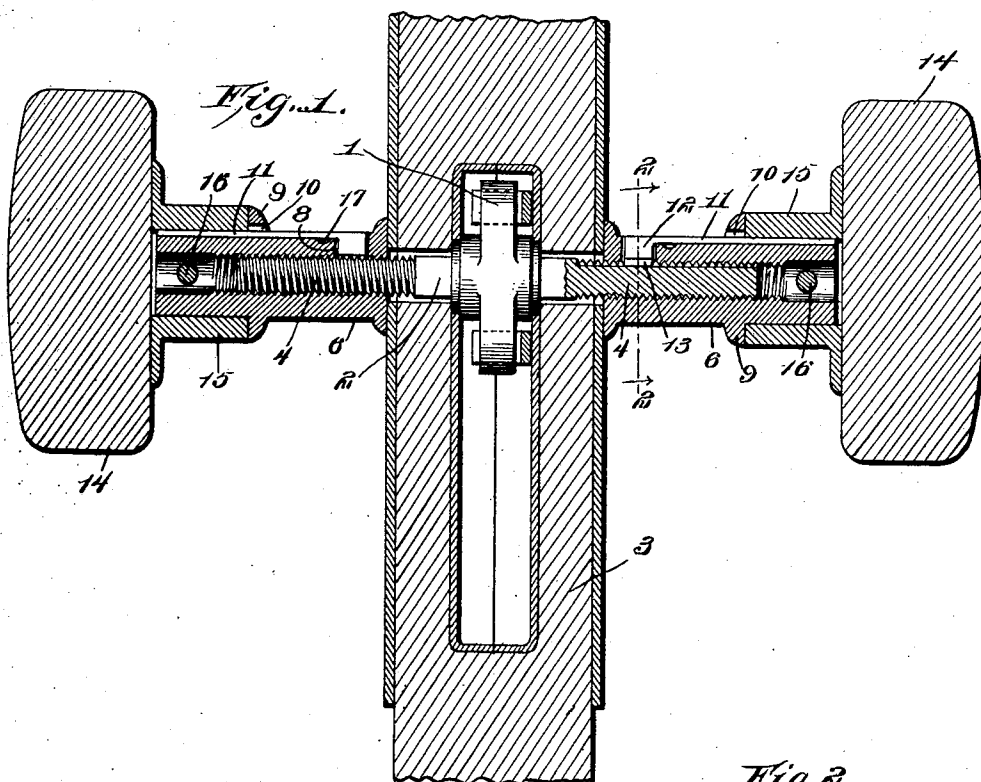
No. 826,187.

PATENTED JULY 17, 1906.

J. L. McSPADDEN, H. L. WILKIE & W. H. LEWIS.

DOOR KNOB ATTACHMENT.

APPLICATION FILED SEPT. 14, 1905.



Witnesses

Louis R. Keimichs

Herbert D. Lawson.

Inventors
J. L. McSpadden
H. L. Wilkie
W. H. Lewis

W. J. Fitzgerald & Co.
Attorneys

UNITED STATES PATENT OFFICE.

JOHN L. McSPADDEN, HENRY L. WILKIE, AND WILLIAM H. LEWIS, OF
DETOUR, MICHIGAN.

DOOR-KNOB ATTACHMENT.

No. 826,187.

Specification of Letters Patent.

Patented July 17, 1906.

Application filed September 14, 1905. Serial No. 278,424.

To all whom it may concern:

Be it known that we, JOHN L. McSPADDEN, HENRY L. WILKIE, and WILLIAM H. LEWIS, citizens of the United States, residing at Detour, in the county of Chippewa and State of Michigan, have invented certain new and useful Improvements in Door-Knob Attachments; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to door-knob attachments, and more particularly to means for securing them to the spindles of door-locks.

The object of the invention is to provide adjustable means whereby the knobs can be securely fastened to the spindles after they have been adjusted against opposite sides of a door, so as to prevent longitudinal play of the spindle.

A further object is to provide means for securely locking said knobs in their adjusted position; and a still further object is to provide means for readily releasing said locking mechanism when desired.

With the above and other objects in view the invention consists of a spindle having that portion thereof extending beyond the door screw-threaded. The knob-shank receives and is secured to a sleeve which is mounted on and engages the threaded portion of the spindle. Mounted in this sleeve is a spring-strip having a head which projects through the sleeve and is adapted to engage a groove which is formed longitudinally in the threaded portion of the spindle. By raising this head out of engagement with the spindle the sleeve and the knob can be rotated until said knob assumes a desired position, after which the head can be released, so as to spring into engagement with the spindle.

The invention also consists of certain other features of construction and combination of parts, which will be hereinafter more fully described, and pointed out in the claims.

In the accompanying drawings has been shown the preferred form of our invention.

In said drawings, Figure 1 is a section through our improved door-knobs and the devices utilized for securing them to a lock. Fig. 2 is a section on line 2 2, Fig. 1. Fig. 3 is an enlarged perspective view of one end of the spindle and showing the sleeve in posi-

tion thereon, the knob being removed; and Fig. 4 is a detail view of the locking-strip.

Referring to the figures by numerals of reference, 1 is a lock from opposite sides of which extends a spindle 2. Those portions of the spindle projecting beyond the faces of door 3 are screw-threaded, as shown at 4, and have longitudinally-extending grooves 5 therein. These threaded portions project into and engage cylindrical sleeves 6, having grooves 7 formed longitudinally therein, each groove opening at one end into an aperture 8, which extends into and communicates with the interior of the sleeve. A collar 9 surrounds the sleeve and is integral therewith, and this collar has an aperture 10 therein directly over groove 7, so that the spring locking-strip 11 can be inserted through the collar. This spring-strip 11 is adapted to be seated within the groove 7 and has a head 12, which extends into the aperture 8. A bead 13 is formed on the head and is of such a size as to fit within the groove 5. The knobs 14 have knob-shanks 15, extending from them, which are of the ordinary construction, and these knob-shanks are adapted to receive the sleeves 6 and to abut against collars 9. The knob-shanks are secured to the sleeves by means of bolts or screws 16, which extend transversely therethrough. A groove 17 extends transversely of each groove 7 at a point adjacent the aperture 8, and this groove is of sufficient size to receive a nail or small tool for the purpose of pressing the spring-strip so as to raise the head out of engagement with groove 5.

In using this device the spring-strip is held with its head out of engagement with the spindle by placing a tool within groove 17, and the sleeve 6 is then turned upon the spindle until it abuts against or assumes a position close to the door. The spring-strip 11 is then released, and head 12 will spring inward, so that head 13 will engage groove 7. The knob will therefore be securely locked in place.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination with a threaded spindle having a longitudinally-extending groove therein; of a knob adjustably mounted on the spindle, a spring-strip having a head extending therefrom and adapted to be seated in the

groove and a collar having an aperture adapted to receive said strip.

2. The combination with a knob having a shank; of a threaded spindle having a groove intersecting the threads; a sleeve mounted on and engaging the threaded spindle, said sleeve having an aperture therein, and a spring-strip having a head seated in the aperture and adapted to be seated in the groove.

3. The combination with a knob having a shank; of a screw-threaded spindle having a groove intersecting the threads; a sleeve upon and engaging the spindle, said sleeve having an aperture therein, a spring-strip seated in the sleeve, and having a head integral with said strip and normally seated in said aperture and in the groove in the spindle, said sleeve having a groove extending transversely under the spring-strip.

4. The combination with a threaded spindle having a groove intersecting the threads; of a sleeve mounted upon said spindle and having a longitudinally-extending groove therein and an aperture at one end of the groove, a collar surrounding the sleeve and having an aperture therethrough registering with the groove in the sleeve, a spring-strip seated within the groove in the sleeve and

extending through the aperture in the collar, and having a head at one end normally seated in the aperture in the sleeve and in the groove in the spindle, a knob detachably mounted upon the sleeve and extending over the spring-strip, said knob abutting against the collar, the sleeve having a transversely-extending groove disposed under the spring-strip adjacent its head.

5. The combination with a screw-threaded spindle; of means for adjustably connecting a knob thereto, said means comprising a sleeve adapted to engage the spindle and having a groove therein terminating in an aperture, a spring-strip seated within the groove, a head upon the strip projecting into the aperture and adapted to engage the spindle, and a collar integral with the sleeve and extending over said strip.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JOHN L. McSPADDEN.

HENRY L. WILKIE.

WILLIAM H. LEWIS.

Witnesses:

CHARLES McLEAN.

OTIS WILKIE.