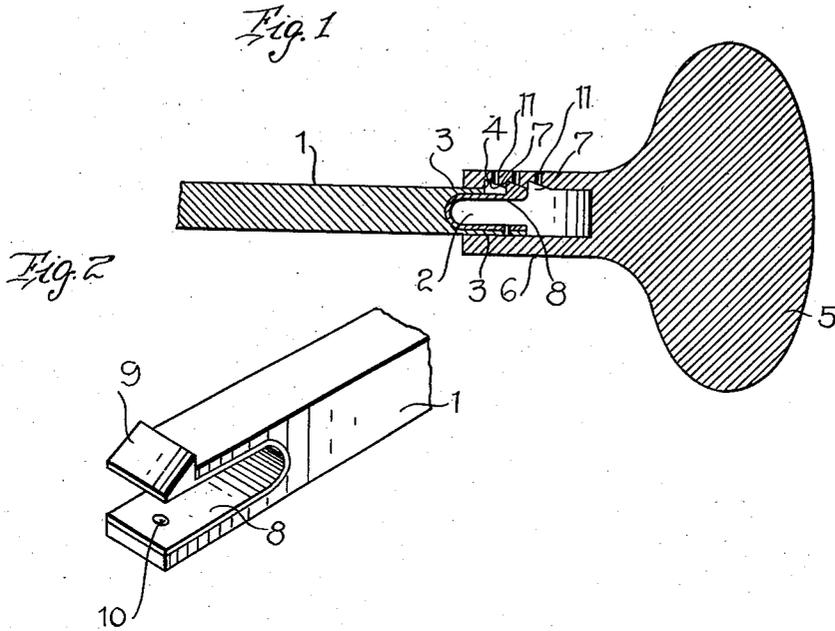


H. B. COLLINS.  
KNOB FASTENING.  
APPLICATION FILED MAY 7, 1913.

1,085,543.

Patented Jan. 27, 1914.



Witnesses  
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# UNITED STATES PATENT OFFICE.

HORACE B. COLLINS, OF FORT WORTH, TEXAS.

KNOB-FASTENING.

1,085,543.

Specification of Letters Patent.

Patented Jan. 27, 1914.

Application filed May 7, 1913. Serial No. 766,164.

To all whom it may concern:

Be it known that I, HORACE B. COLLINS, a citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Knob-Fastenings, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in fastening means for door knobs and more particularly to a fastening means whereby the door knob may be quickly and easily applied to the end of the spindle or readily removed therefrom.

The object of the invention is to provide fastening means of the above character which will eliminate the use of screws and the like for retaining the knobs in place, which are ordinarily held by screws.

Another object of the invention is to provide a door knob fastener of the above character which will possess advantages in points of efficiency and durability, is inexpensive of manufacture and at the same time is simple in construction and operation.

With the above and other objects in view, my invention consists in the novel features of construction and the combination and arrangement of parts to be hereinafter more fully described, pointed out in the claim and shown in the accompanying drawings, in which—

Figure 1 is a longitudinal sectional view of a door knob illustrating the application of my invention; Fig. 2 is a detail perspective view of one end of the spindle.

Referring more particularly to the drawings, 1 indicates the spindle, the end of which is bifurcated, as shown at 2, to form the spaced spring arms 3, one of said arms being shortened, as shown at 4. The knob 5 is provided with the usual knob shank 6 having a square opening, one of the walls thereof provided with teeth 7 adapted to be engaged by the catch 9 of catch member 8, which is carried by the end of the spindle 1. The catch member 8 comprises a single piece of spring metal, which is substantially U-shaped in form and arranged between the spaced arms 3. One end of the member 8 is provided with the catch 9 which engages the teeth 7 and the other end is secured by

means of a rivet 10 to the arm opposite the arm which is engaged by the catch 9. The knob shank 6 is provided with a plurality of openings 11 wherein a punch or other article may be inserted to release the catch 9 from the teeth 7 when it is desired to remove the knob from the spindle 1. The openings 11 communicate directly with the teeth 7 so that the catch 9 may be quickly and readily released. It will also be apparent that the knob 5 may be quickly applied to the end of the spindle by engaging the knob shank 6 thereover, the spring member 9 readily engaging with any one of the teeth 7 to prevent the removal of the knob.

From this it will be seen that I have provided a simple and durable fastening device whereby a door knob will be quickly and readily applied to the spindle upon either side of the door and readily removed therefrom, when desired. It will also be apparent that my device is extremely simple in construction and can be manufactured at an extremely low cost.

While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of construction and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope of the appended claim.

What I claim is:—

A device of the class described including a spindle having its end bifurcated to form two spaced arms, a resilient U-shaped member arranged between said arms, a catch formed upon one end of said U-shaped member, a knob, a shank formed upon said knob and adapted to receive the end of the spindle, teeth formed within said shank and adapted to be engaged by the catch to movably secure the knob upon the spindle, and said shank being provided with a plurality of openings whereby the catch member may be quickly and readily released by means inserted through said openings.

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

HORACE B. COLLINS.

Witnesses:

D. M. ALEXANDER,  
R. B. RIDGWAY.