

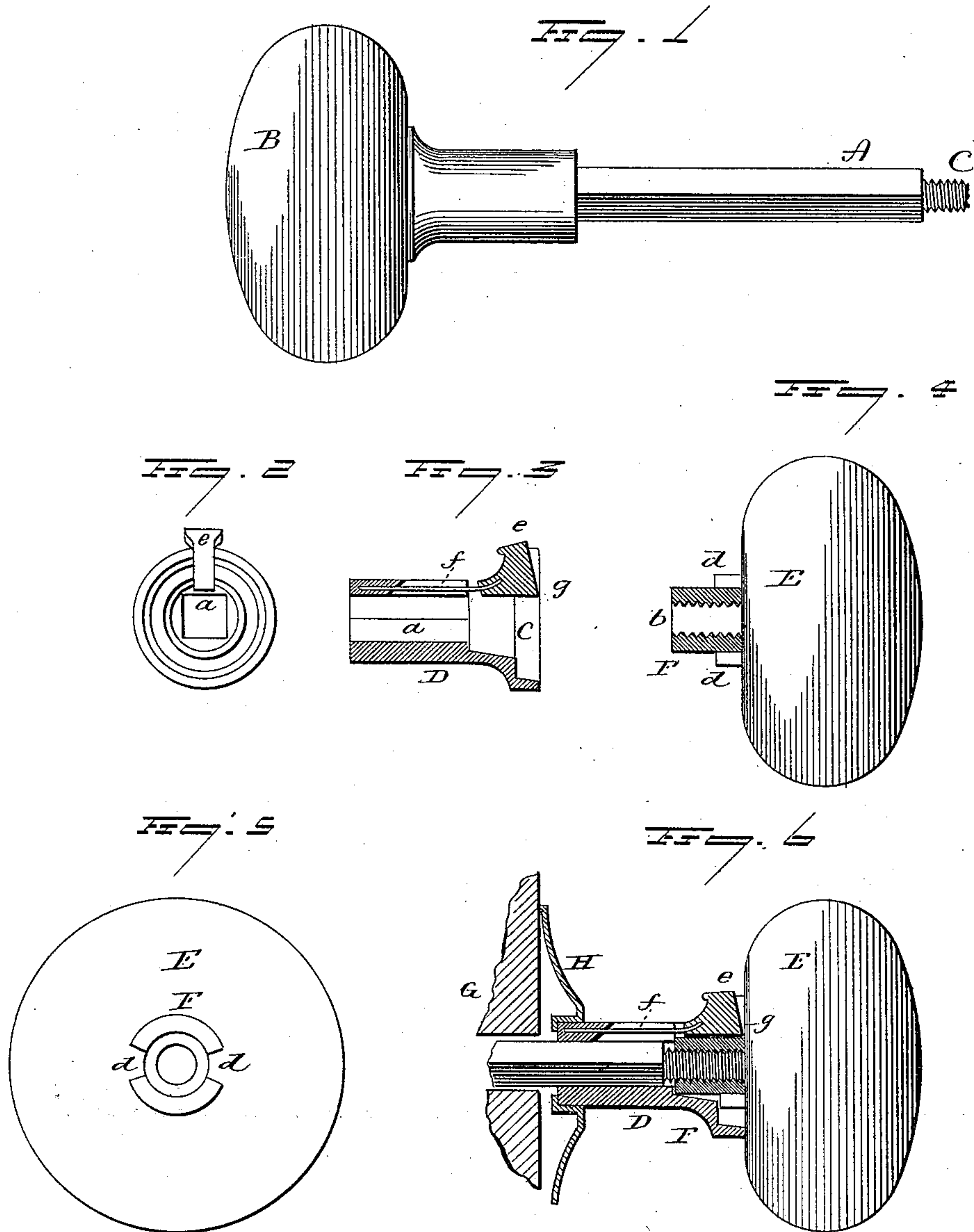
(No Model.)

H. J. P. WHIPPLE.

KNOB ATTACHMENT.

No. 355,957.

Patented Jan. 11, 1887.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

HENRY J. P. WHIPPLE, OF MIDDLETOWN, CONNECTICUT.

## KNOB ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 355,957, dated January 11, 1887.

Application filed June 23, 1886. Serial No. 206,451. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY J. P. WHIPPLE, of Middletown, in the county of Middlesex and State of Connecticut, have invented a new  
5 Improvement in Knob Attachments; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the  
10 same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view of the spindle and fixed knob; Fig. 2, an end view of the sleeve, showing the concentric recess at the outer end;  
15 Fig. 3, a longitudinal section of the sleeve, showing a side view of the latch; Fig. 4, a sectional side view of the adjustable knob and its shank; Fig. 5, an end view of the same, looking toward the shank; Fig. 6, a sectional  
20 view showing the parts as set together on the door.

This invention relates to an improvement in devices for securing knobs to spindles, with special reference to the adjustable knob, where-  
25 by it may be adjusted on the spindle to varying thicknesses of doors, the object being to make a positive connection and avoid the use of knob-screws, and is an improvement on the invention for which Letters Patent No. 321,927  
30 were granted to me July 7, 1885; and it consists in the construction as hereinafter described, and particularly recited in the claim.

A represents the spindle, which is of the usual rectangular or polygonal shape. To one  
35 end the knob B is secured in the usual manner, and so as to become what is called the "fixed" knob. The other end of the spindle is screw-threaded, as at C.

D is a sleeve, having an opening, *a*, longitudinally through it, corresponding to the square or angular shape of the spindle, and so as to slide freely thereon, the opening at one end enlarged to form a concentric recess, *c*.

E represents the adjustable knob. Instead  
45 of being constructed with the usual neck to slide onto the spindle, it is provided with a shank, F, internally screw-threaded, as at *b*, to fit the screw-threaded portion C of the spindle. This shank is constructed to enter the  
50 corresponding recess *c* in the end of the sleeve D. In the body of the shank one or more radial notches, *d*, are cut.

In the sleeve D is a latch, *e*, preferably attached to a spring, *f*, arranged in a longitudinal slot in the sleeve, the nose *g* of the latch  
55 extending into the recess at the larger end of the sleeve. The nose of this latch corresponds to the notch *d* in the shank of the knob, and when the knob is applied so that the shank passes into the recess in the end of the sleeve  
60 and the latch *e* is permitted to fall into one of the notches *d*, then the rotation of the knob independent of the sleeve is impossible.

The spindle is passed through the door in the usual manner, G, Fig. 6, representing the  
65 door, and the usual rose, H, is applied to each side of the door, against which the knob may abut. After the spindle has been thus introduced, the sleeve is passed onto the spindle, as seen in Fig. 6, close up against the rose. Then  
70 the knob E is applied, the shank F turned onto the screw-threaded end of the spindle, and the latch *e* held out from the recess in the end of the sleeve until the knob has been turned up to a bearing, as seen in Fig. 6. Then the  
75 the latch is permitted to fall, and so as to engage one of the notches *d* in the shank of the knob, so as to interlock the knob with the sleeve D, and the sleeve on the spindle being prevented from turning by the shape of the  
80 spindle, it follows that the position of the knob upon the spindle cannot be changed so long as such engagement between the latch and the shank of the knob is maintained. If at any time it is desirable to remove the knob,  
85 the latch *e* is raised from engagement with the shank of the knob. Then the knob may be turned off from the spindle.

The head of the latch projects slightly above the surface of the sleeve, so that it may be  
90 readily reached when occasion requires.

The screw-thread on the spindle being of slight pitch, a very nice adjustment of the knob may be made, and if at any time from shrinkage of the door or otherwise the knob-  
95 spindle becomes too loose, the knob may be reset by raising the latch *e* and turning the knob until it is properly readjusted, and then the latch makes a new engagement with the knob.

The spring *f* of the latch is secured in the sleeve by riveting, brazing, or otherwise.

I am aware of United States Patent No. 174,825, and do not wish to be understood as

claiming anything therein shown or described.

What I claim as my invention is—

The combination, with the angular knob-spindle A, constructed with a screw-thread, 5 C, at one end, the sleeve D, having a longitudinal opening through it corresponding to the angular shape of the spindle and so as to slide freely thereon, but without rotation independent of the spindle, and constructed with 10 a recess at its outer end concentric with the spindle, of the adjustable knob E, provided with a shank, F, screw-threaded correspond-

ing to the screw-threaded portion of the spindle and constructed to enter the recess in the end of the sleeve D, and a latch secured to 15 said sleeve and located between said knob and sleeve, to engage the knob with said sleeve when the knob is in place, substantially as described.

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Witnesses:

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