

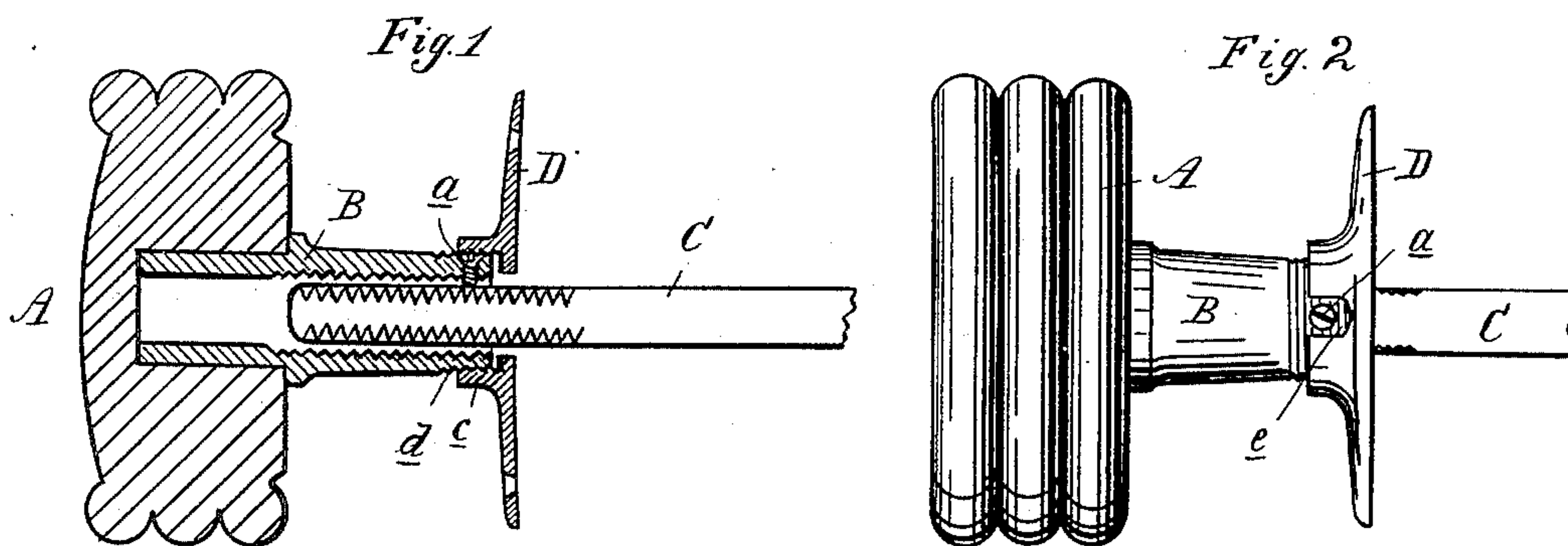
(No Model.)

H. H. HUMPHREY.

KNOB ATTACHMENT.

No. 339,102.

Patented Mar. 30, 1886.



Attest:

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by his Atty

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# UNITED STATES PATENT OFFICE.

HENRY HUBERT HUMPHREY, OF DETROIT, MICHIGAN.

## KNOB ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 339,102, dated March 30, 1886.

Application filed December 17, 1885. Serial No. 135,939. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY HUBERT HUMPHREY, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Knob Attachments; and I do declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 This invention relates to certain new and useful improvements in the construction and operation of knob attachments, by means of which a ready adjustment of the same can be had to doors of various thicknesses in a very simple and mechanical manner.

The invention consists in the peculiar construction, combination, and operation of the parts whereby the adjustment is readily secured, and the means employed therefor hidden, and the parts thoroughly locked together, as more fully hereinafter described.

Figure 1 is a central longitudinal section through the shank, spindle, and knobs. Fig. 2 is an elevation of my improved device.

25 In the drawings, A represents the knob, B the shank, and C the spindle, and these are of the usual construction as shown in non-adjustable door-knobs, except as hereinafter explained. The shank B, to which the knob A is secured in any desired manner, has a central round bore through the same, which is provided with a screw-thread. The spindle C is polygonal in form, preferably, however, being square, and has cut near each end a thread to engage with the thread in the shank; but the spindle being of the form described the operating-thread only appears upon its corners. Near the inner end of the shank a set-screw, *a*, is tapped through the same, the inner end of this set-screw being preferably flat. The function of the set-screw is to hold the spindle from turning within the shank by the impingement of the inner end of the screw against one of the flattened sides of the spindle after the adjustment is made to the door. Now the vibration and jar of the door to which the attachment is secured frequently operates to work the set-screw loose, in which case an attempt to turn the spindle would

only result in turning the shank upon the thread of the spindle. To prevent such accidental displacement of the set-screw, and compel the parts to remain in their true relative positions when the attachment is adjusted to the door, I cut a thread, *d*, on the end of the shank, and I provide a rose, D, having a central hole therein surrounded by the interrupted annular flange *e*, which is interiorly threaded to engage with the thread upon the end of the shank. This annular flange is interrupted or cut away, as shown at *e*.

In practice the knob and shank of one end is removed, the withdrawal of the set-screw allowing this to be done, and the spindle inserted through the door, after which the removed rose is slipped onto the spindle. The shank is then screwed onto the spindle, the two parts (the rose and shank) being secured together by the latter screwing into the annular flange of the former, leaving the cut-away or interrupted part of such flange in such position as to expose the place where the set-screw is to be inserted through the shank. Now insert the set-screw and screw it home, and give the rose a partial turn, so that an interrupted portion of the flange will cover and hide the head of the screw. The rose is then secured to the door by screws passing through holes made in the rose for that purpose, and the external threads of the knob-shank engaging the threads formed on the interior of the rose, and the internal threads of the shank engaging those on the spindle C.

What I claim as my invention is—

In combination with a spindle threaded at its angles, a door-knob provided with a hollow shank threaded interiorly and exteriorly, a rose sleeved on said spindle and provided with a flange, *e*, internally threaded to engage the external thread on the knob-shank and provided in said flange with an open-ended slot, *e*, and a set-screw passing through a hole in the shank and bearing against one of the faces of the spindle, substantially as described.

HENRY HUBERT HUMPHREY.

Witnesses:

H. S. SPRAGUE,  
CHARLES J. HUNT.