

(No Model.)

J. H. SHAW.
DOOR KNOB.

No. 541,017.

Patented June 11, 1895.

Fig. 1

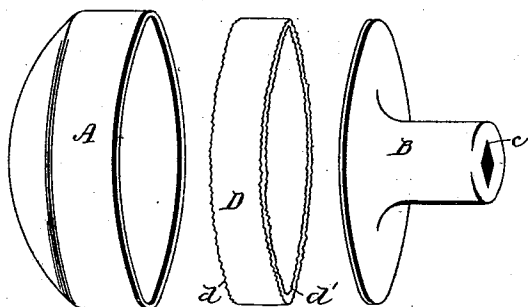


Fig. 2

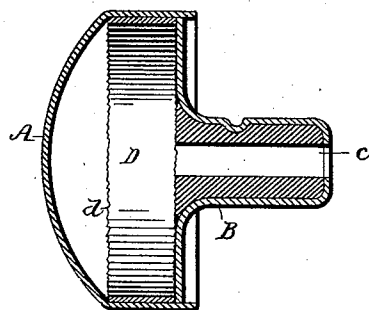
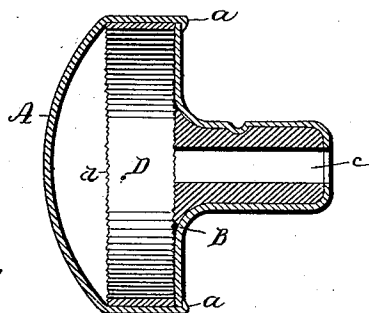


Fig. 3



Witnesses:

Chas. B. Shumway
John D. Jackson

Inventor

John H. Shaw
by Robinson Fish
his attorney

UNITED STATES PATENT OFFICE.

JOHN H. SHAW, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE
SARGENT & COMPANY, OF SAME PLACE.

DOOR-KNOB.

SPECIFICATION forming part of Letters Patent No. 541,017, dated June 11, 1895.

Application filed March 29, 1895. Serial No. 543,747. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. SHAW, a citizen of the United States, and a resident of the city of New Haven, county of New Haven, State of Connecticut, have invented a new and useful Improvement in Door-Knobs, which is fully set forth in the following specification, taken in connection with the accompanying drawings, in which like letters of reference represent like parts in all the figures, and in which—

Figure 1 is a perspective view of the parts comprising the knob; Fig. 2, a vertical section of the parts through the center and partially assembled, and Fig. 3 a similar sectional view of the parts assembled in a completed knob.

This invention relates to door knobs and has special reference to the process of forming hollow knobs.

Hollow knobs in the past were formed by molding them about a core, which was a somewhat lengthy and comparatively expensive operation. More recently the method has been to construct the hollow shell of the knob in parts and assemble them in a press or by other means. These parts were overlapped and edges turned to connect them together, but the objection to a knob constructed after this method is the liability of the parts to telescope, or to slip about each other, when the knob is turned in the door.

To obviate these difficulties is the object of this invention and it is accomplished by the peculiar construction of the parts which consist of two shells A and B, the outer one or head being substantially cup shaped, and the inner in the form of a flat disk connected to the shank C, or as shown in the drawings, formed integral therewith. A flat sustaining ring D with serrated edges and of diameter slightly less than the head A, fits into the head, resting with its edge *d* on the inner face of the head. The sides of the head extend beyond the ring D when so fitted, and overlap the disk B, when placed against the edge *d'* of the ring. The overlapping sides of the head are turned to form a flange clasping the edge of the disk B securely in place. It is

evident from this description of the parts and their relative position in the knob that the process of assembling them is extremely simple and requires but a slight expenditure of labor.

The ring D having been pressed into place in the head A and the disk B forced against the ring, the flange *a* may be formed by a press or spun by a lathe.

The sustaining ring has the double function of holding the parts from telescoping by its pressure against the two shells, and by the engagement of the serrated edges *d* and *d'* with the inner surfaces of the shells prevents any slipping of the parts about the shank. The outer face of the head A may be ornamented as desired, provided the edge *d* of the ring may still engage with the inner face.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The herein described method of forming door knobs, consisting of the insertion of a sustaining ring within a substantially cup-shaped head, pressing into said head and against said ring, a disk-shaped shell, and turning the sides of said head to clasp said disk-shaped shell, substantially as set forth.

2. A door knob consisting of a cup-shaped head, a sustaining ring within said head, and a disk-shaped shell within said head and pressed against said ring, being clasped by the sides of said head, substantially as described.

3. A door knob consisting of a cup-shaped head, a disk-shaped shell fitted within said head and clasped by the sides thereof, and a serrated sustaining ring within said head bearing upon the inner faces of said head and said disk-shaped shell, substantially as described.

In witness whereof I have hereunto set my hand this 25th day of March, 1895.

JOHN H. SHAW.

Witnesses:

BRUCE FENN,
L. J. KIRKHAM.