

J. Evans,

Door Knob

No. 103,590.

Patented May 31, 1870.

Fig. 1.

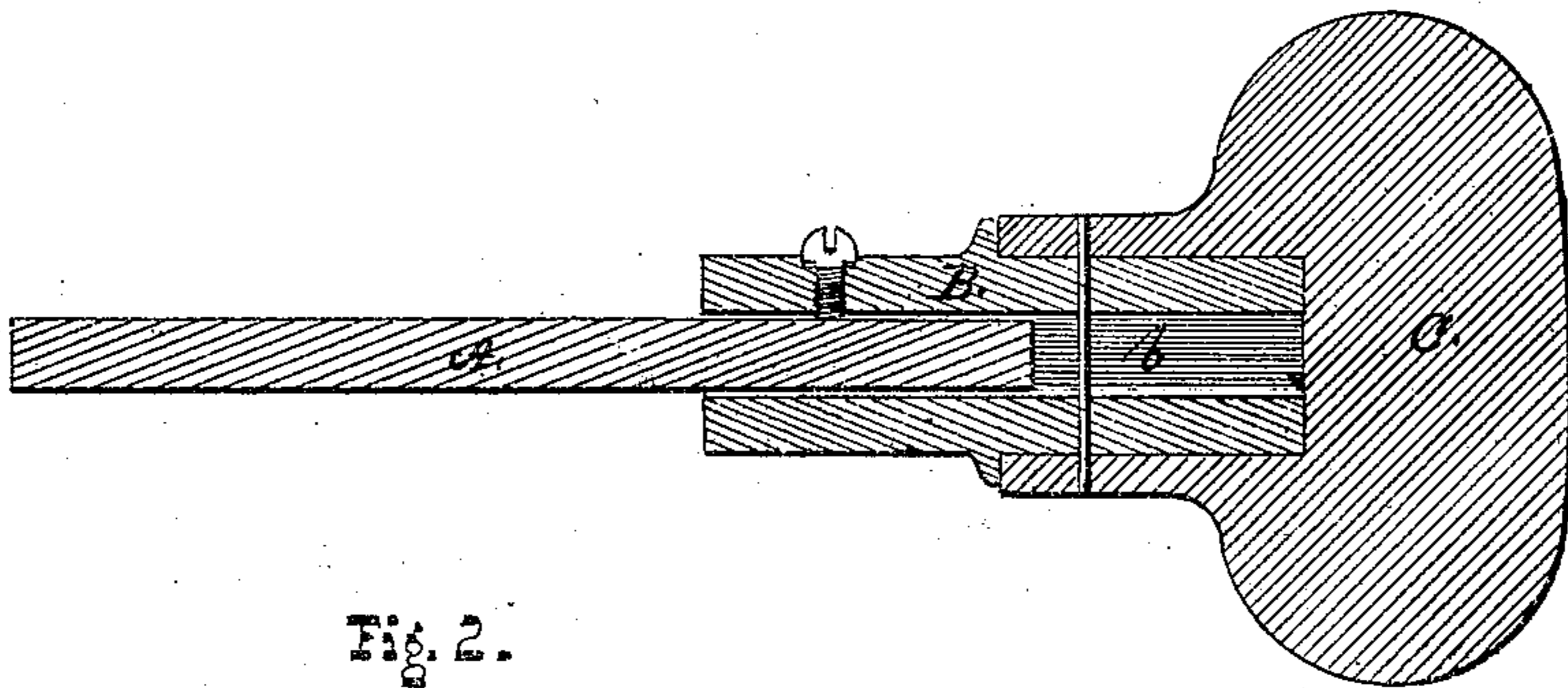


Fig. 2.

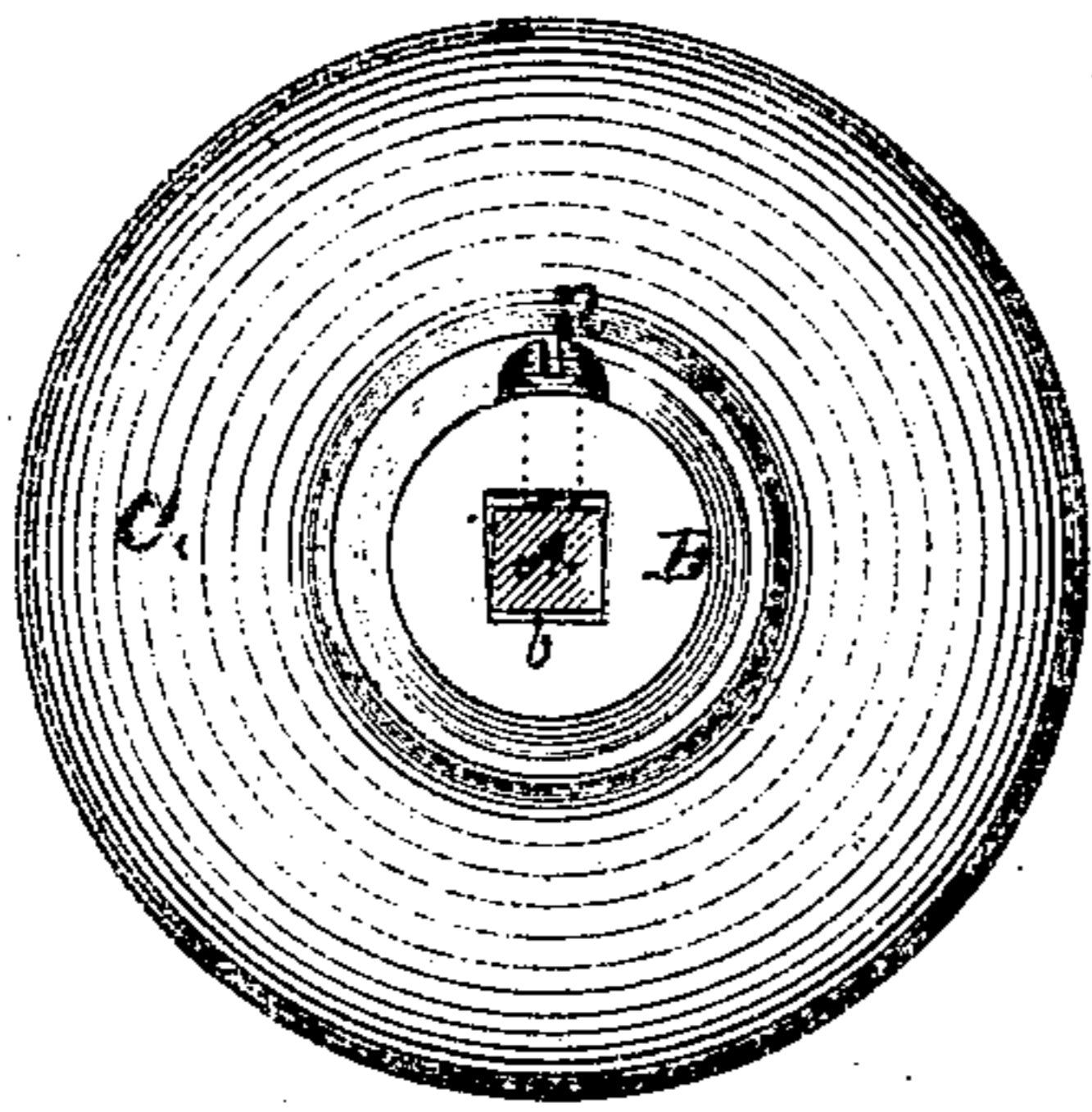
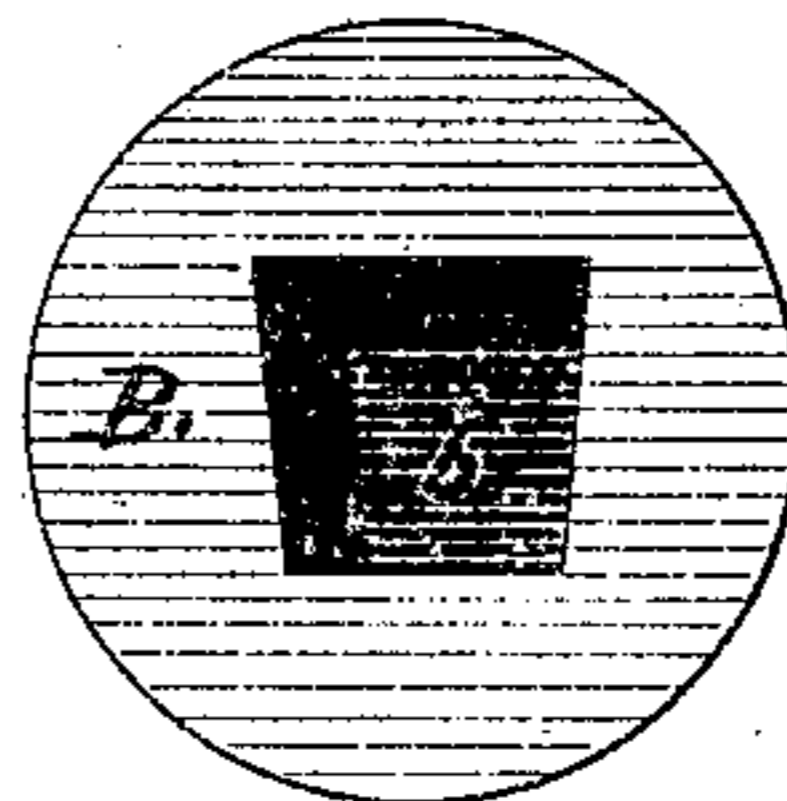


Fig. 3.



Witnesses.

J. B. Moorcraft
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John Evans

UNITED STATES PATENT OFFICE.

JOHN EVANS, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN ATTACHING DOOR-KNOBS TO THEIR SPINDLES.

Specification forming part of Letters Patent No. **103,590**, dated May 31, 1870.

To all whom it may concern:

Be it known that I, JOHN EVANS, of New Haven, in the county of New Haven and State of Connecticut, have invented a certain new and useful Improvement in Door-Knobs and the Mode of Securing the Same to the Latch-Shaft; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a sectional view of a door-knob, metal socket, set-screw, and latch-shaft. Fig. 2 shows an end view of the latch-shaft, socket, screw, and knob. Fig. 3 is an enlarged view of the end of the metal socket, showing the form of the opening to receive the latch-shaft.

The object of my invention is to adjust more accurately the knobs to the various thicknesses of doors, and to secure them in their proper position more firmly in the easiest manner.

My invention consists simply in the form or slightly-tapering sides of the socket in which the latch-shaft is fitted, so that when the slightly wedge-shaped shaft is pressed into the socket by a screw or its equivalent it is held at any point in the firmest manner, and can be instantly relieved, so as to allow the knob to be taken off.

To enable others to make and use my improvement, I will describe it more fully, referring to the drawings and the letters marked thereon.

The latch-shaft A is made, in the usual manner, of a square bar of iron, the ends of which are made slightly narrower on one side as far

as they are ever required to go into the socket B, on which a wood, porcelain, or any other suitable substance formed into the knob C may be secured. The opening *b* in the socket B is made straight longitudinally on the four sides; but one of the sides is made about one-eighth or one-tenth narrower than the side opposite, thus leaving the opening wedging on the two other sides to conform to the wedge-shaped latch-shaft. The opening *b* in the socket is wider on the two parallel sides, so that the bar A will not come to bear against it when pressed in tight by the set-screw *a*, fitted in the opposite side of the socket B.

The whole device, being the most simple and easy to make, and can be instantly put on and adjusted to the thickness of any door, requiring no washer or anything to prevent it being too loose, can be instantly tightened up should any of the fixtures become worn, and it is accredited to be the most simple, cheap, efficient, and durable mode of fastening that can be devised for the purpose.

What I claim as my invention, and desire to secure by Letters Patent, is—

Securing a door-knob to the latch-bar A by means of the wedge-shaped opening *b* in the socket B, the spindle being so shaped as to conform to the opening when set, and held by the screw *a* or its equivalent, substantially in the manner as herein described.

JOHN EVANS.

Witnesses:

J. B. WOODRUFF,
W. J. KETCHUM.