

L. L. SMITH.  
Improvement in Door-Knobs.  
No. 128,764. Patented July 9, 1872.

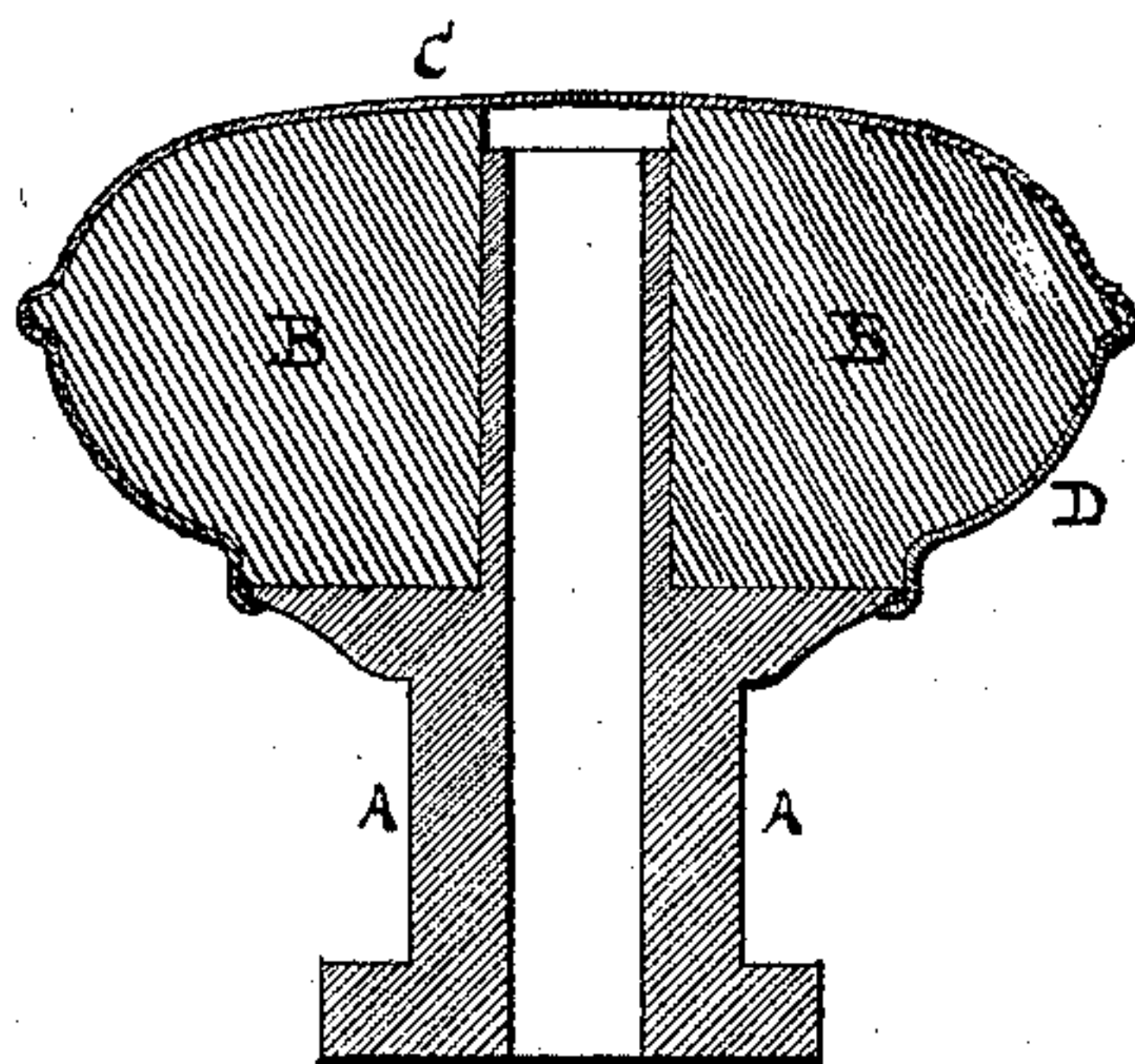


Fig. 1.

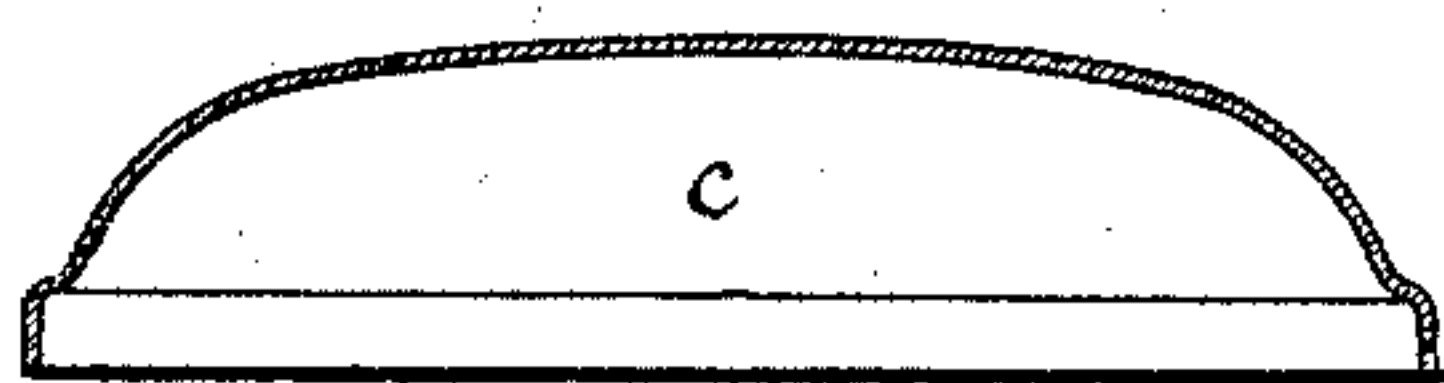


Fig. 2.

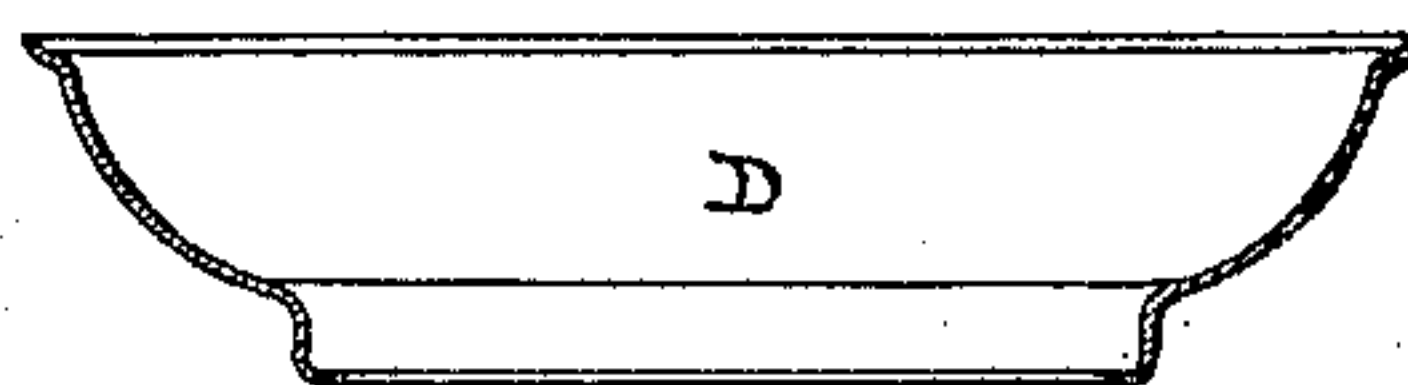


Fig. 3.

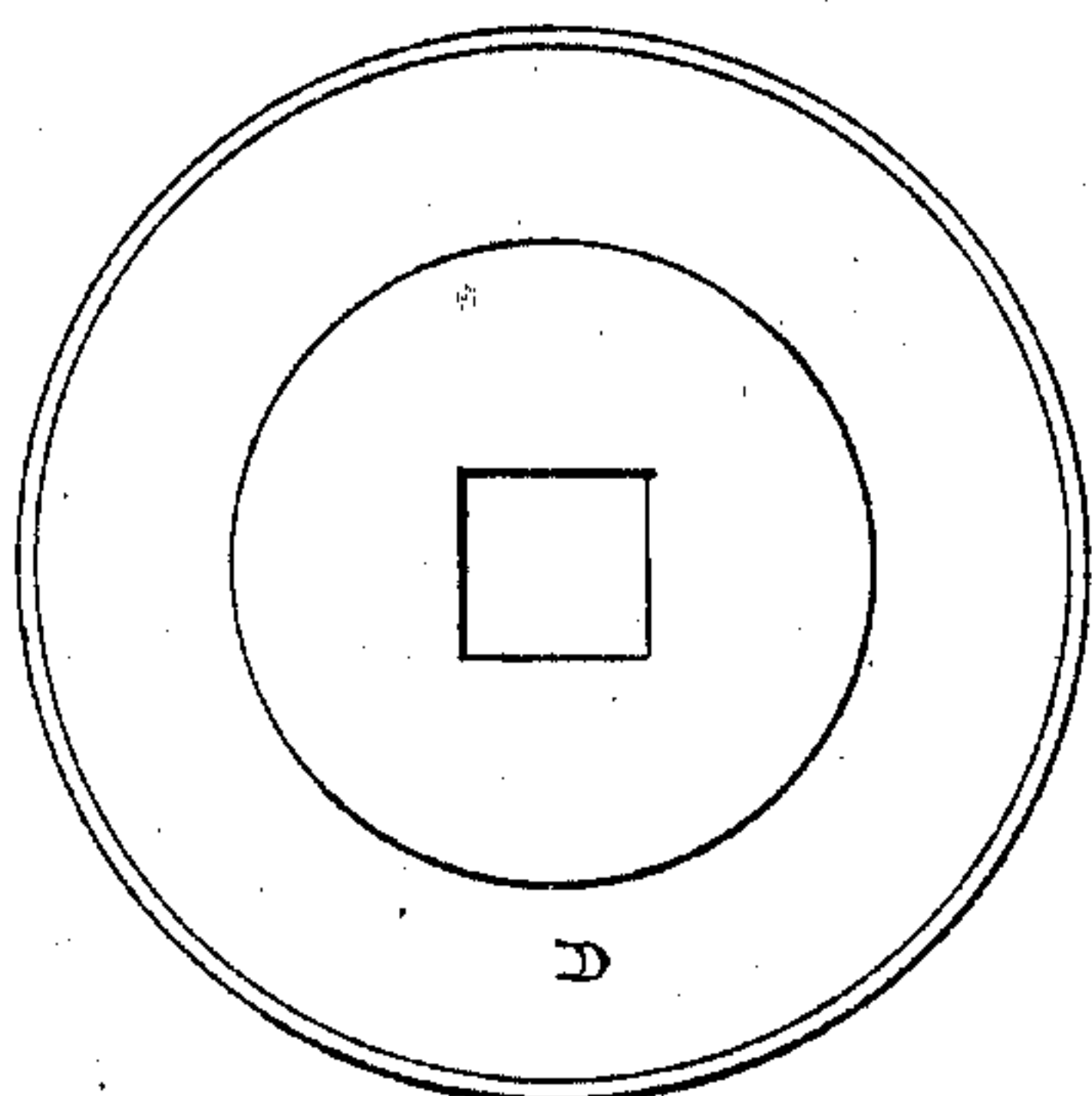


Fig. 5.

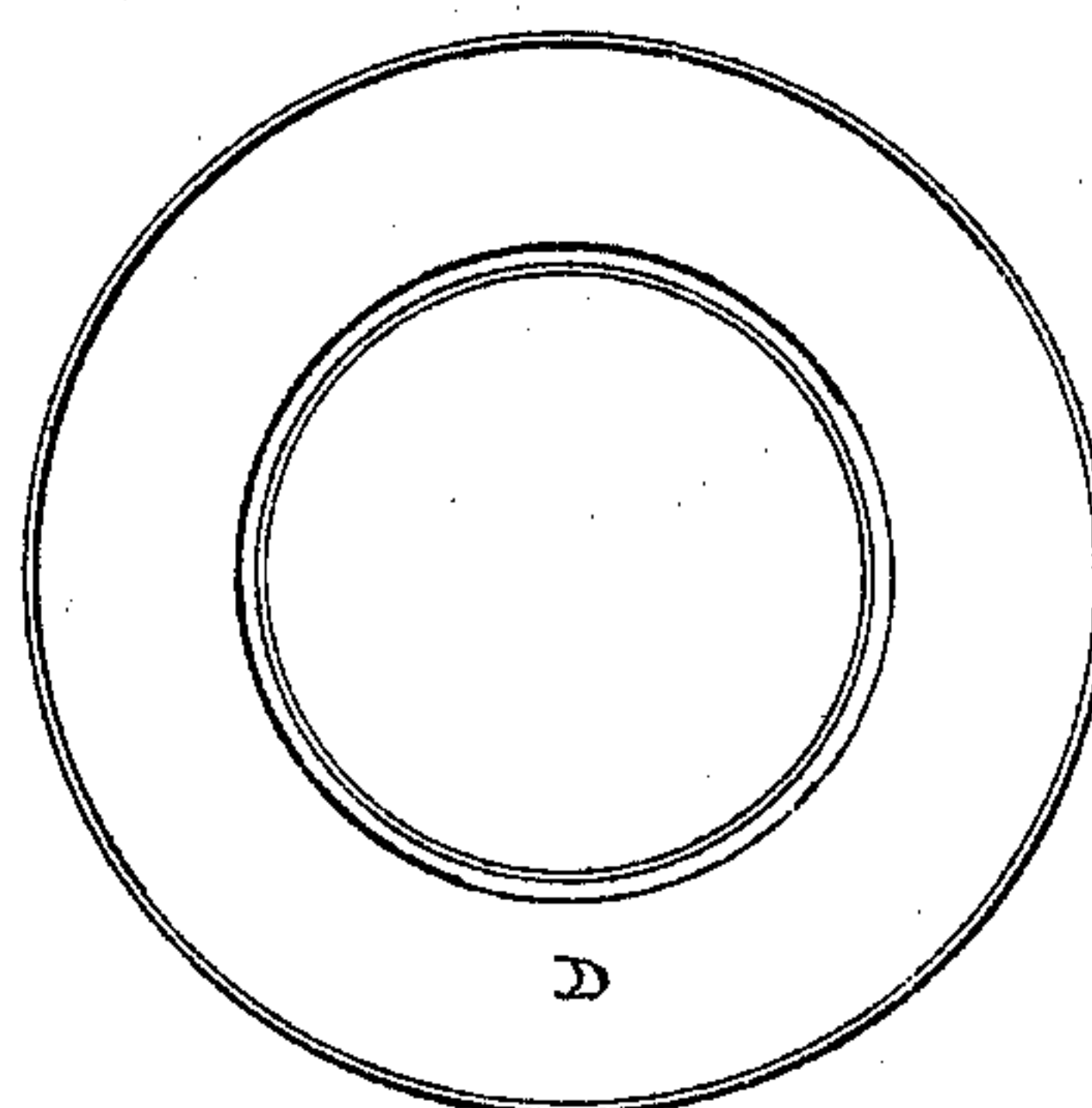


Fig. 4.

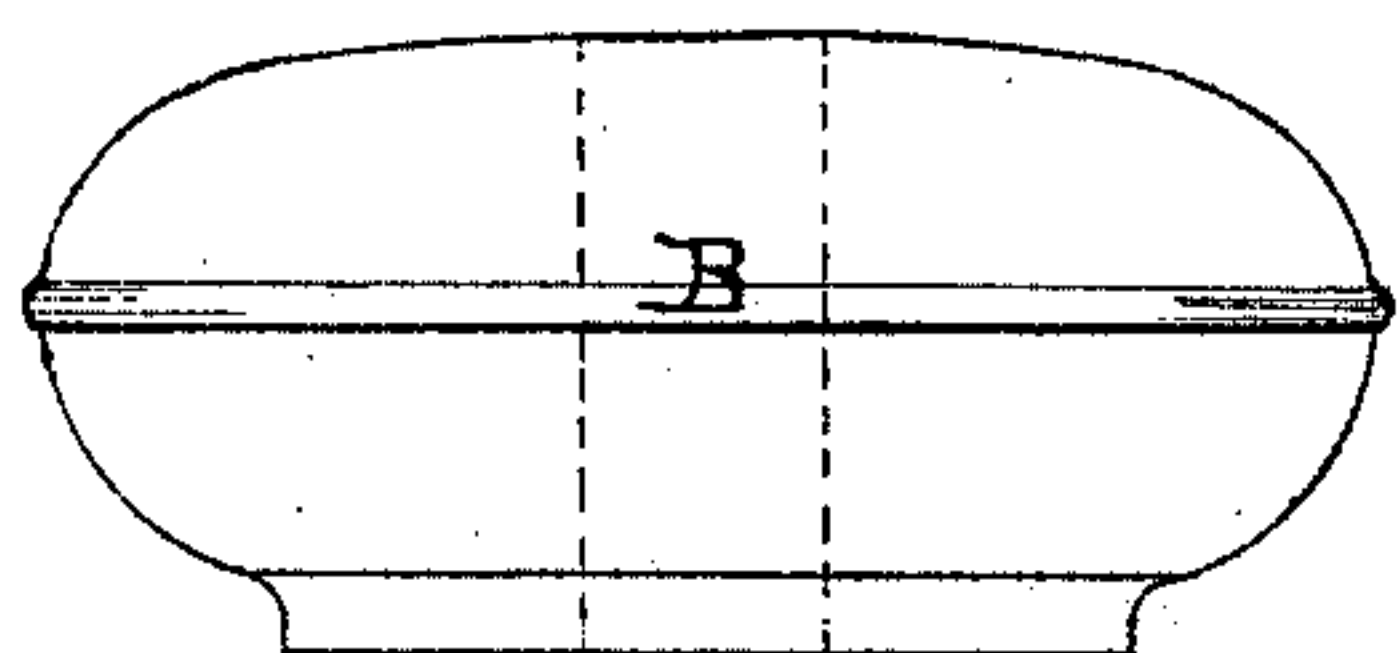


Fig. 6.

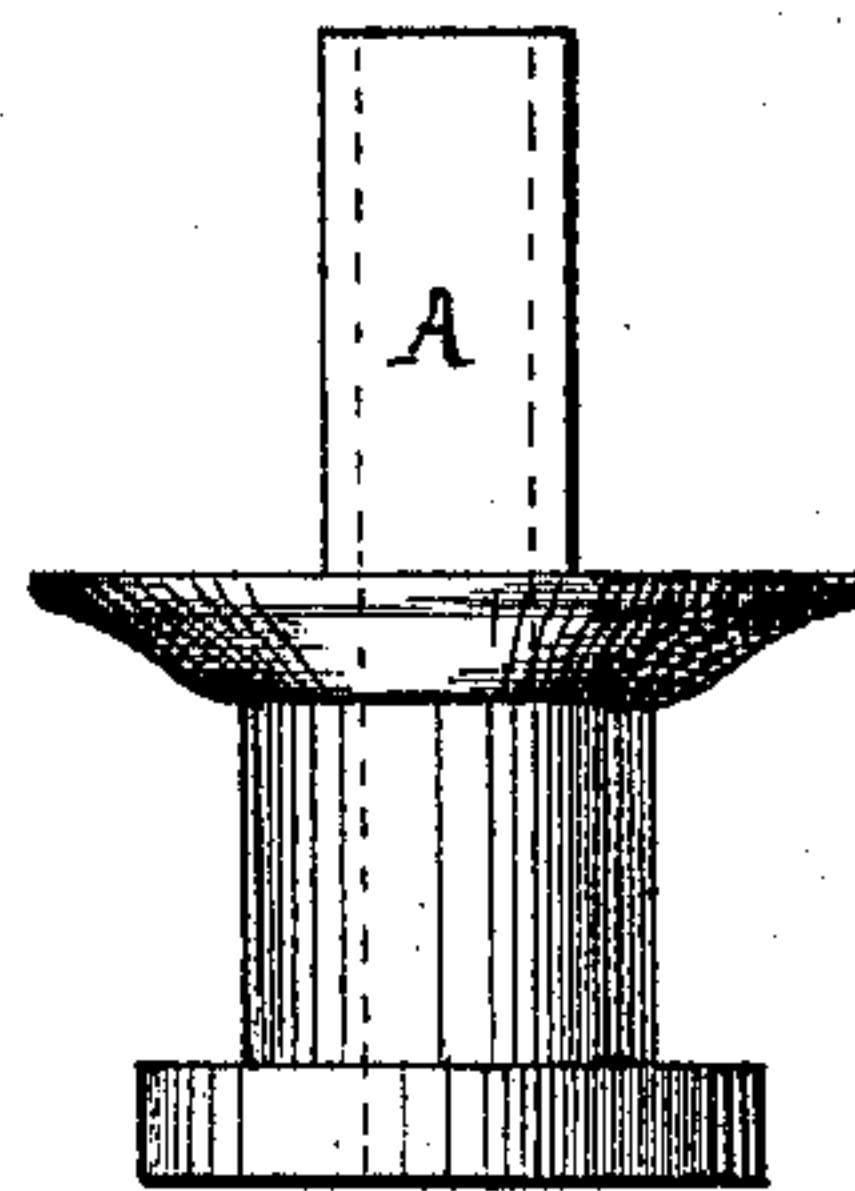


Fig. 7.

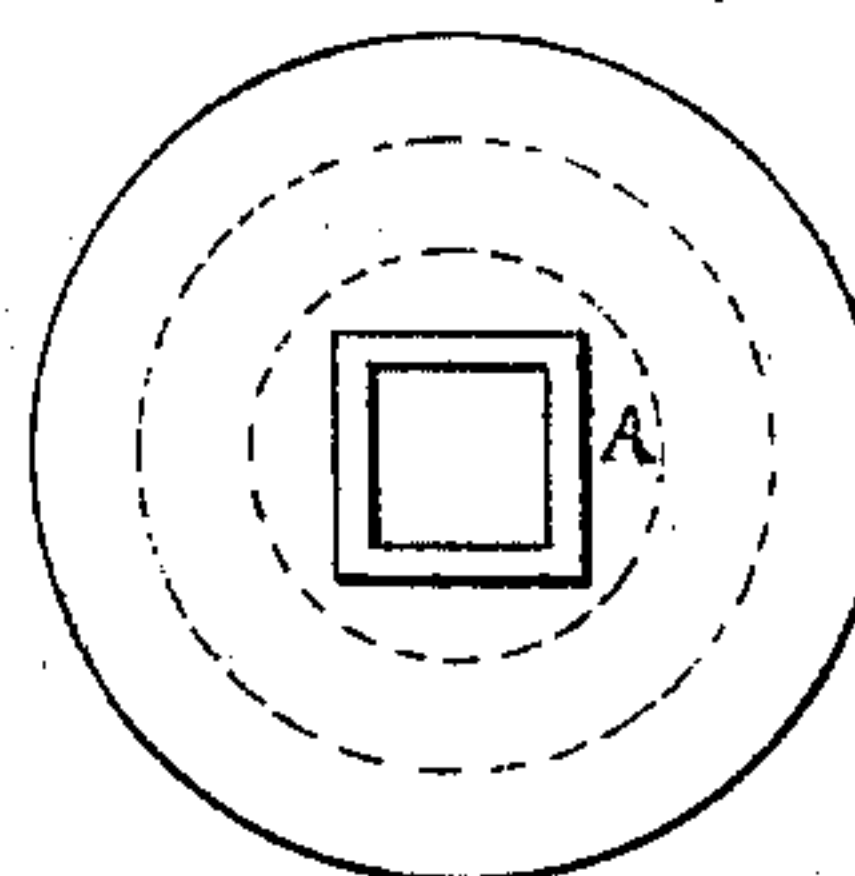


Fig. 8.

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# UNITED STATES PATENT OFFICE.

LUTHER L. SMITH, OF NEW YORK, N. Y.

## IMPROVEMENT IN DOOR-KNOBS.

Specification forming part of Letters Patent No. 128,764, dated July 9, 1872.

### SPECIFICATION.

I, LUTHER L. SMITH, of New York, in the State of New York, have invented a new and useful Improvement in Door-Knobs, of which the following is a specification:

In the drawing, Figure 1 is a sectional view, showing all the pieces of which the improved door-knob is formed, and their relative positions when put together. Figs. 2, 3, 4, 5, 6, 7, and 8 are views in detail of the said pieces.

A is the arbor of the door-knob fitting upon the shank or spindle in the usual manner, and to which is attached that part of the knob which is to be grasped by the hand. The arbor is cast in one piece, as represented in Fig. 7. B is a block of wood turned to the shape of that part of a door-knob which is grasped by the hand. It has a hole through the center, into which is driven a part of the arbor, as shown. C is a thin piece of metal, shaped to form the front of the knob, and in like manner D forms the back.

The several parts are put together as indicated in Fig. 1, and the part D is secured to the arbor by soldering, and the parts C and D, embracing the block B, are united by spinning. The whole exterior of the knob being of metal, it presents, when completed, the appearance of a solid metallic knob. The parts C and D may be struck in dies to the shapes represented in Figs. 2 and 3, or they may con-

sist, respectively, of a thin disk and ring of metal, and by the process of spinning be made to assume the required shape over the solid block B.

The great merit of the invention consists in the economy with which the knob is made. Less metal is required than in any other door-knob, having the appearance of a solid metallic knob, with which I am acquainted, and it is evident that the block B may be prepared at a trifling cost.

I am aware that door-knobs have been made by spinning up the front and back parts, stiffening each part by casting in solder or other metal, and then uniting the two. The part B, instead of being turned out from wood, may be formed by molding certain compositions to shape; one of sawdust and cement being especially suitable for such a purpose.

I claim—

A door-knob composed of a separate wooden knob covered with sheet metal, and fixedly attached to a metallic arbor, when a portion of said arbor extends in the wooden block so as to form a socket to receive the spindle, in the manner and for the purpose herein set forth.

LUTHER L. SMITH.

Witnesses:

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