

H. A. DIERKES.

ATTACHING KNOBS TO SPINDLES.

No. 174,209.

Patented Feb. 29, 1876.

Fig. 1.

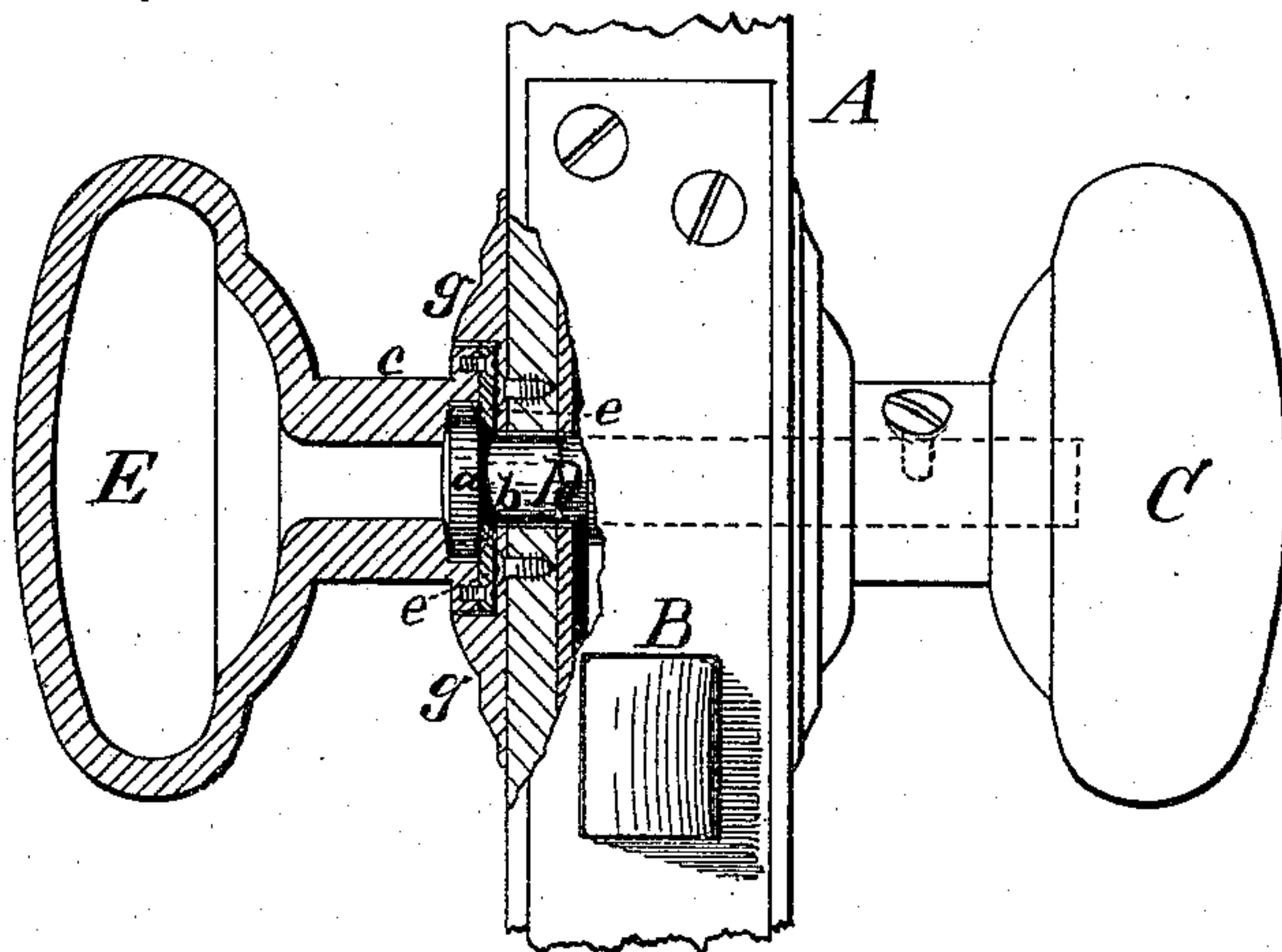


Fig. 2.

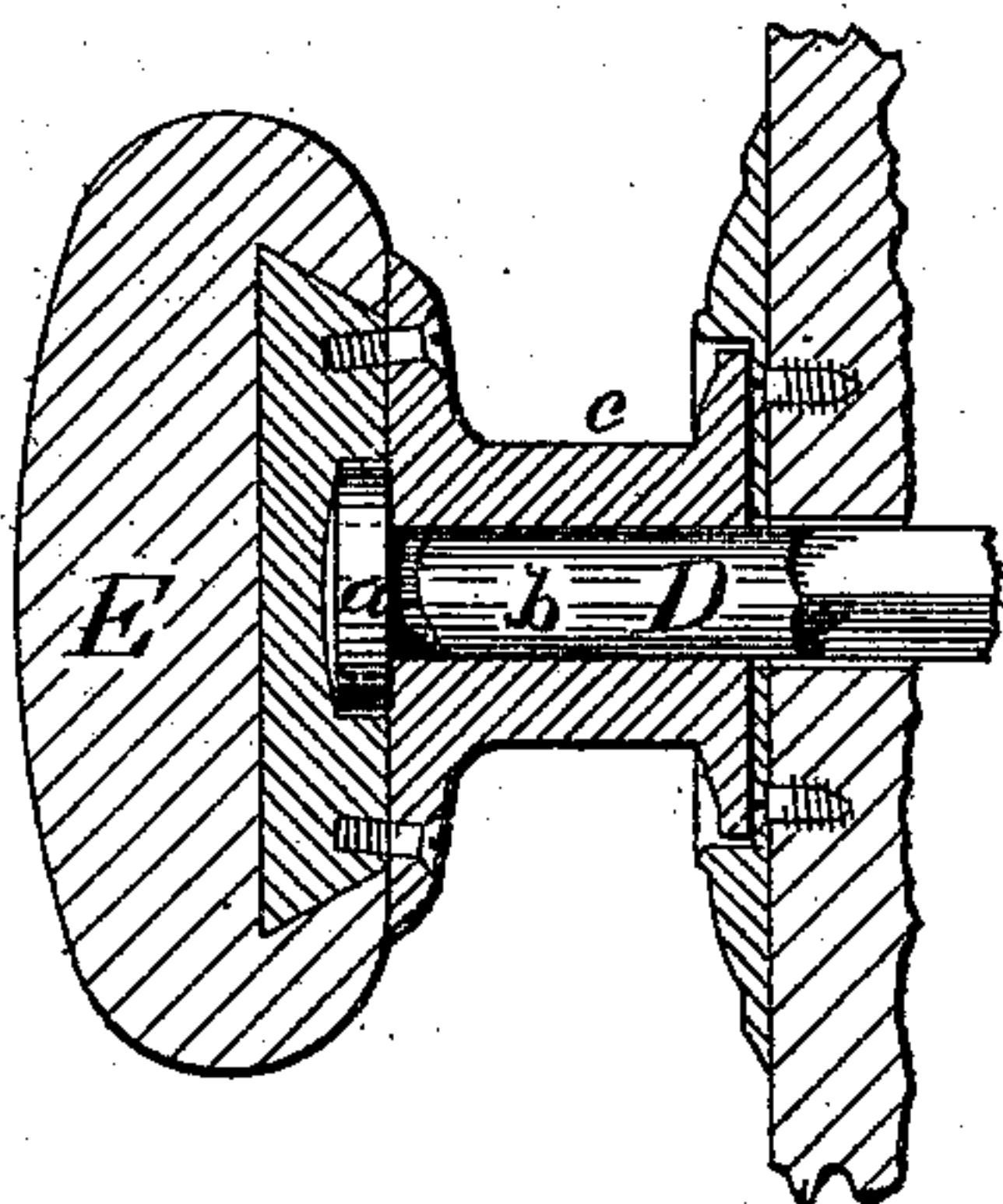
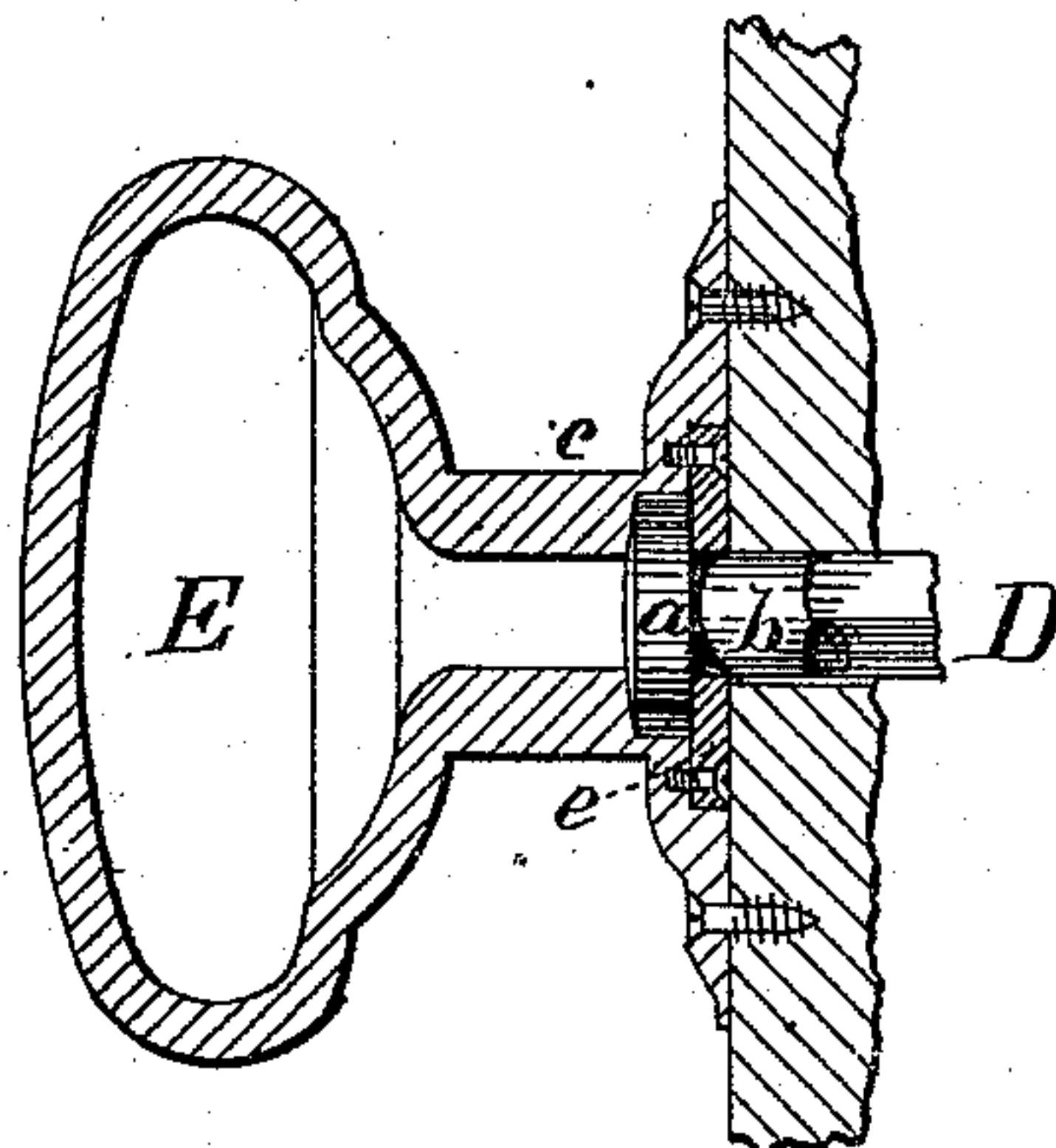


Fig. 3.



Witnesses:

Arthur C. Fraser.
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Inventor:

Henry A. Dierkes.
By his Attorneys,
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UNITED STATES PATENT OFFICE.

HENRY A. DIERKES, OF NEW YORK, N. Y.

IMPROVEMENT IN ATTACHING KNOBS TO SPINDLES.

Specification forming part of Letters Patent No. 174,209, dated February 29, 1876; application filed August 19, 1875.

To all whom it may concern:

Be it known that I, HENRY A. DIERKES, of the city, county, and State of New York, have invented certain Improvements in Door-Knobs and Spindles, of which the following is a specification:

This invention relates to that class of door-fastenings in which the outer knob is inactive or inert, so far as operating the latch is concerned, the inner knob only being secured rigidly to the spindle.

The invention consists in the combination of a spindle, provided with a head at one end and an actuating-knob at the other end, with an inert knob, provided with a recess or cavity in its end to receive the head on spindle of the other knob, all of which will be more fully hereinafter described, and pointed out in the claim.

The inert outer knob may be arranged to revolve when grasped by the hand, or it may be secured rigidly to the door, as desired; but in either case it does not actuate the spindle.

In the drawings, Figure 1 is an elevation of one form of my device, partly broken away to show the interior construction. Fig. 2 is a sectional view of another form of the same, slightly different in construction. In both of these forms the inert knob is arranged so that it will revolve when grasped. Fig. 3 is a sectional view of another form of my device, in which the inert knob is shown rigidly secured to the door by screws or other equivalent fastening.

Let A represent a door; B, an ordinary night-latch, and C the inner or actuating knob. This latter knob may be affixed rigidly, in the usual manner, to a spindle, D. This spindle is provided on its outer end with a head, *a*, and that portion of the spindle next the head, as at *b*, is preferably made cylindrical; the remainder should be polygonal, as usual. In the construction shown in Fig. 1, the head *a* of the spindle rests in a recess or cavity formed in the outer or inert knob E, or its neck *c*. After the head *a* is placed in the recess, a washer, *e*, preferably constructed

to snugly encircle the neck *b* of the spindle, is slipped over the same and up to the base of the neck *c*, to which it is secured by screws, or in any equivalent manner. The spindle is now pushed through the door and latch from the outside and the inner knob C attached. The base of the neck *c* and the washer *e* now rest in a suitable recess in the ordinary rose-plate *g*, and no screws are visible from the outside of the door. The construction shown in Fig. 2 is very similar, except that the neck *c* is made separate from the knob and serves the same purpose as the washer *e*, the neck *b* of the spindle being elongated and finding a bearing in the neck of the knob, as clearly shown. This arrangement gives a longer bearing for the spindle, and is adapted to such knobs as are constructed in parts and brazed together, and to porcelain knobs. The construction shown in Fig. 3 is identical with that of Fig. 1, except that the plate *g* is or may be omitted, and the base of the neck *c* enlarged and secured firmly to the door. In this arrangement, which may be preferred by some, the knob E is immovably affixed to the door, as above stated. As the object of this invention is to prevent the latch from being actuated from the outside, it is desirable that the outer knob be not readily removed so as to expose the spindle.

I make no claim to the interior mechanism of the latch; but

What I do claim as my invention is—

The combination of the spindle D, provided with a head, *a*, and an actuating-knob, *c*, with the inert knob E, provided with a recess or cavity to receive the head *a*, for securing the said inert knob to the spindle, the whole constructed to operate in connection with the latch of the door, substantially as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

HENRY A. DIERKES.

Witnesses:

HENRY CONNETT,
ARTHUR C. FRASER.