

(No Model.)

2.Sheets—Sheet 1.

T. H. P. DENNIS.
KNOB ATTACHMENT.

No. 284,396.

Patented Sept. 4, 1883.

FIG. 1.

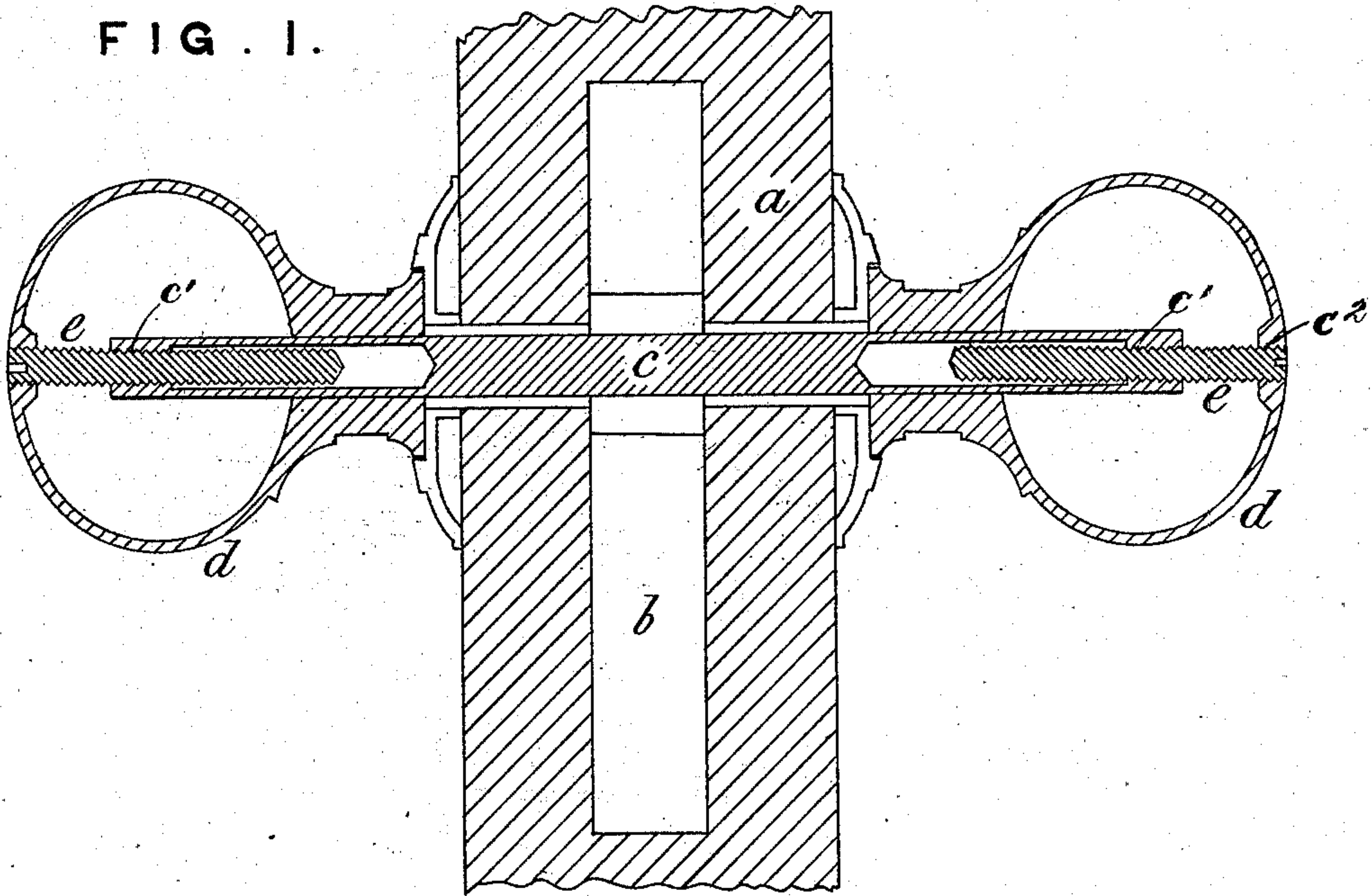
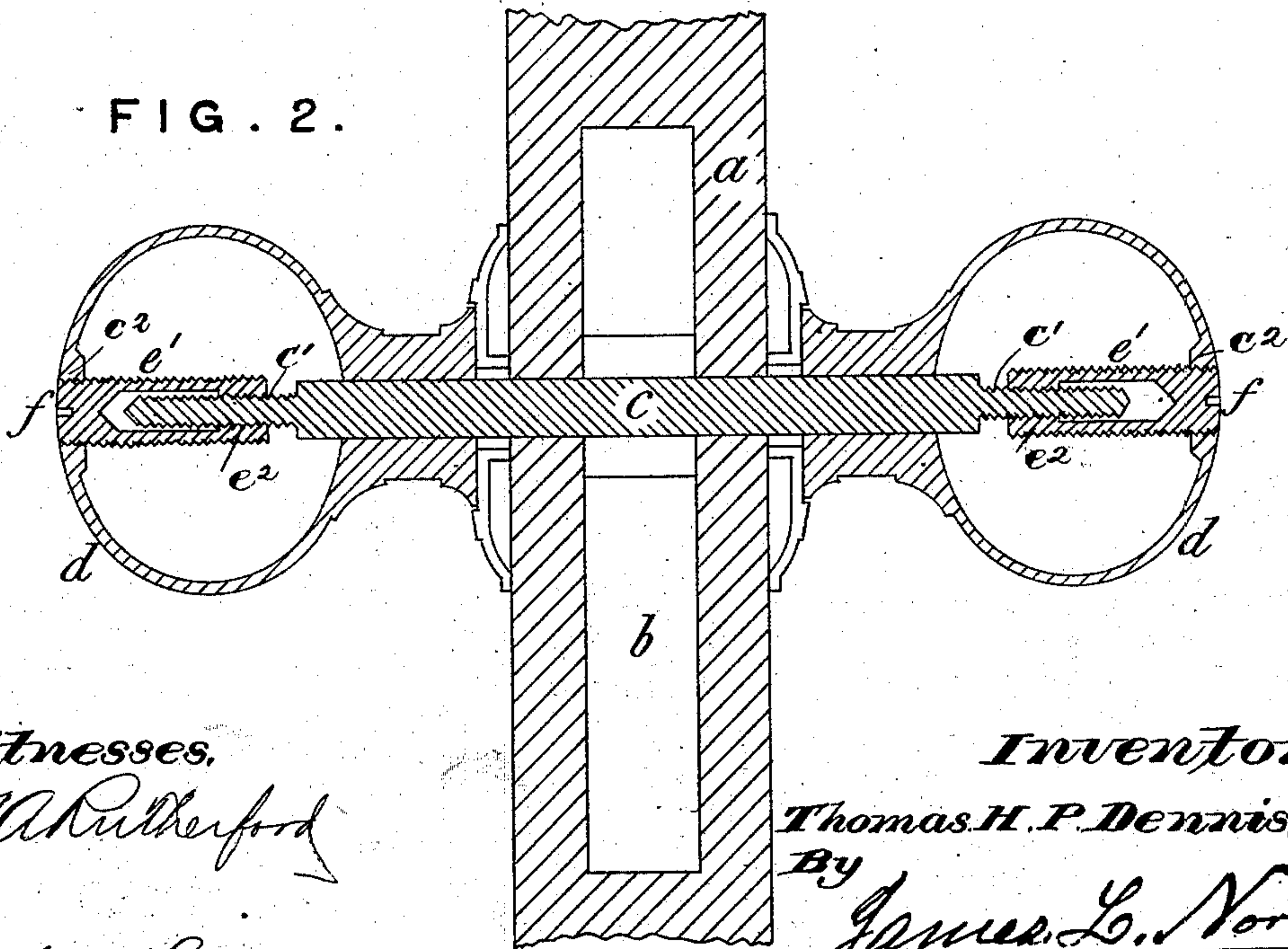


FIG. 2.



Witnesses,

J. A. Rutherford

Robert Emmett

Inventor,

Thomas H. P. Dennis,

By

James L. Norris
Atty.

(No Model.)

2 Sheets—Sheet 2.

T. H. P. DENNIS.
KNOB ATTACHMENT.

No. 284,396.

Patented Sept. 4, 1883.

FIG. 4.

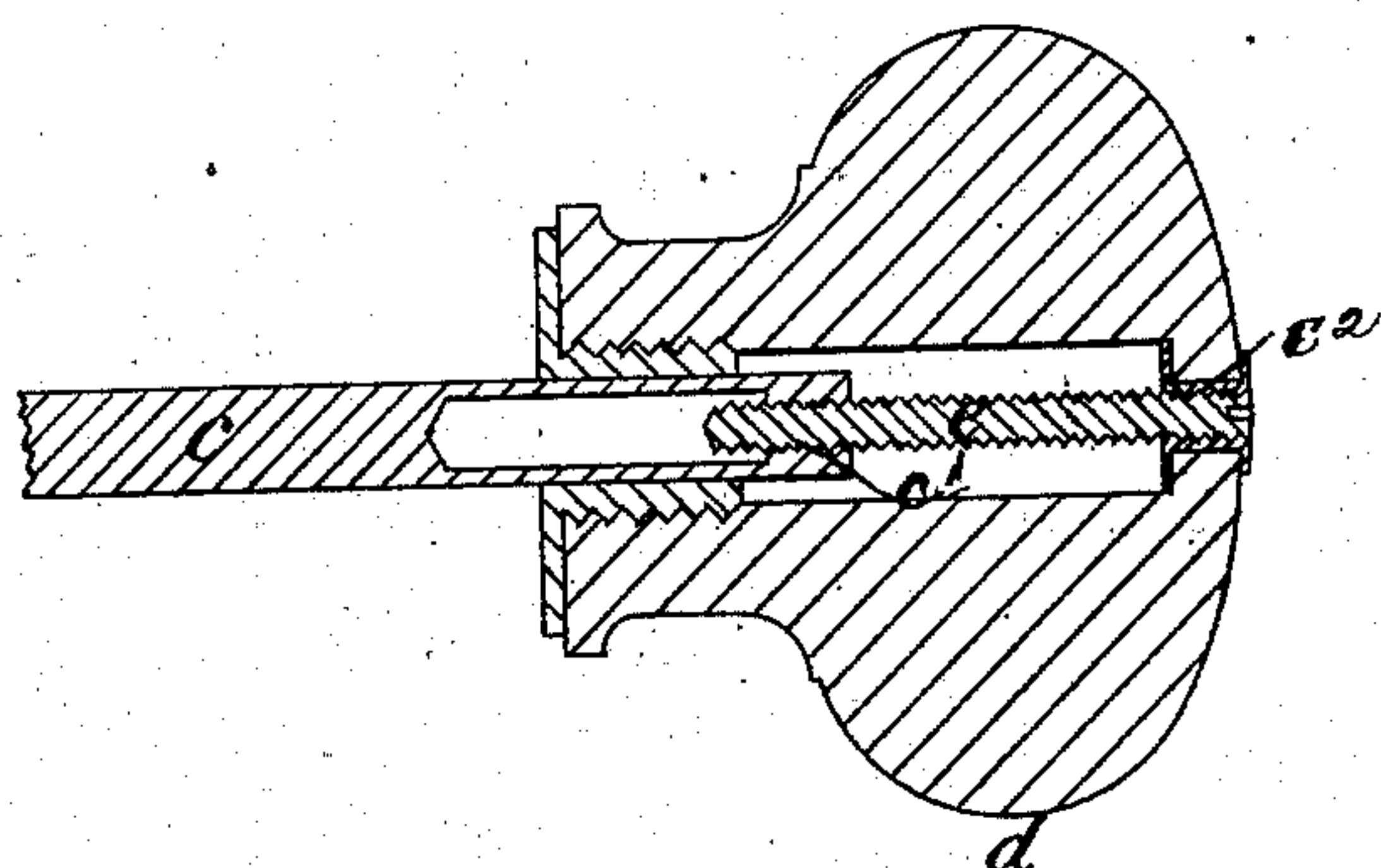


FIG. 3.

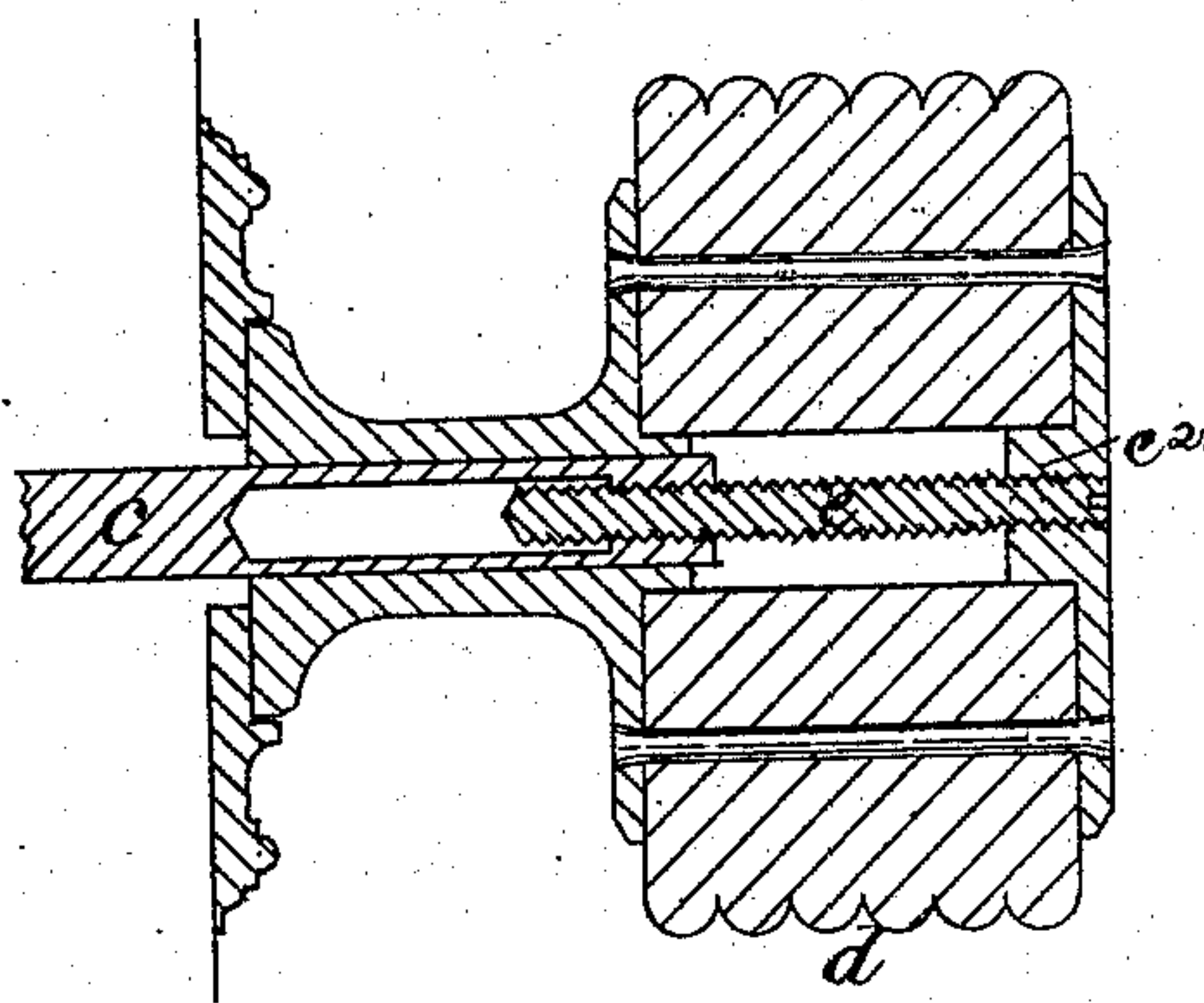


FIG. 5.

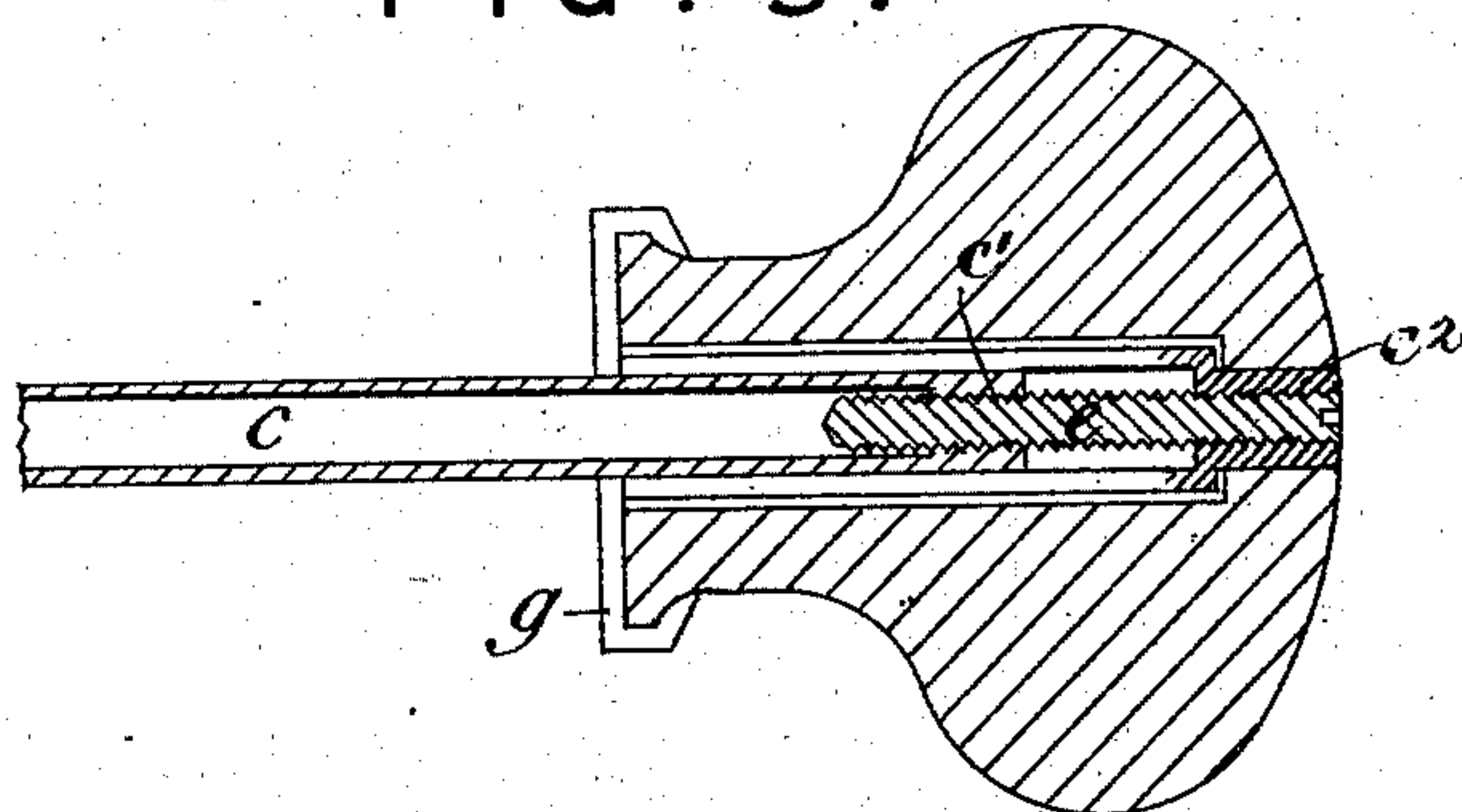
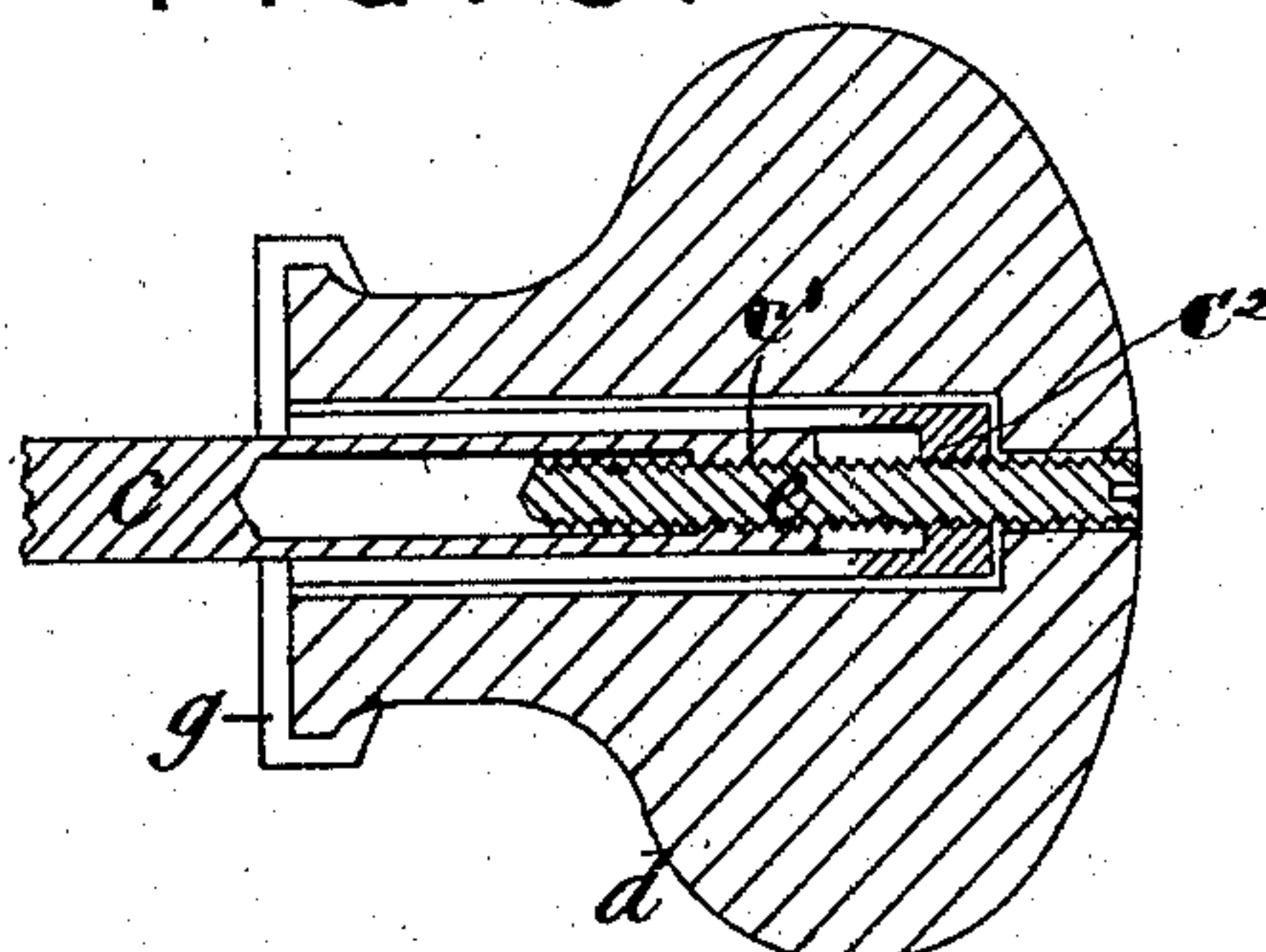


FIG. 6.



Witnesses.

J. A. Rutherford.
Robert Everett.

Inventor.

Thomas H. P. Dennis,

By

James L. Norris

Atty.

UNITED STATES PATENT OFFICE.

THOMAS H. P. DENNIS, OF CHELMSFORD, COUNTY OF ESSEX, ENGLAND.

KNOB ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 284,396, dated September 4, 1883.

Application filed May 22, 1883. (No model.) Patented in England May 17, 1883, No. 2,327.

To all whom it may concern:

Be it known that I, THOMAS HUNGATE PRESTON DENNIS, a subject of the Queen of Great Britain, resident at 20 High Street, Chelmsford, in the county of Essex, England, engineer, have invented certain new and useful improvements in the mode and means of attaching or fixing knobs and handles to spindles or shanks, and of adjusting the same, (for which I have obtained a patent in Great Britain, No. 2,327, bearing date May 17, 1882,) of which the following is a specification.

My invention relates to a means for securing knobs and handles to spindles, and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claim.

The object of the invention is to provide a means for attaching knobs or handles to spindles or shanks for locks, latches, doors, drawers, bell-pulls, and analogous purposes, one which shall be uncomplicated and inexpensive in manufacture, simple and efficient in service and operation; and to these ends the invention consists, essentially, in the mechanisms fully illustrated in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal section of my improved knob and spindle as applied to a door. Fig. 2 is a similar view, in which the spindle carries a male thread, the knob a female thread, and the securing-screw both a male and female thread; and Figs. 3, 4, 5, and 6 represent sectional views of modifications in non-essential details, all of which embody the principle of my invention.

Referring to the drawings, in which similar letters of reference indicate like parts in all the figures, *a* designates the wood-work of an ordinary door, and *b* the lock. For convenience of illustration and description, I will set forth the invention as thus applied; but it is obvious that the principle involved would serve with equal efficiency in other relations and combinations.

c designates the spindle, also of ordinary construction and adaptation, except that it is provided with a threaded portion, *c'*. I prefer the construction shown in Fig. 2, in which this threaded portion *c'* is male.

d designates the knob or handle, having a central threaded opening, through which the securing-screw *e* passes, and with the threads *e'* of which the external threads, *e'*, of said screw engage. This securing-screw *e* is tubular for a portion of its length, and is internally provided with a female thread, *e''*, which thread engages the threaded portion *c'* of the shank.

In adjusting the knob in place I pass the knob over the spindle to the distance required, and then insert the screw *e*, which immediately engages the thread of the shank or spindle, and when it has been forced so as to be flush with the knob, or slightly below flush, the parts are secured together.

When the knob is made of metal, the threads are readily made in the material of the knob; but when formed of wood or glass a metal bushing is employed, in which bushing the threads are formed.

Modifications in details of construction may be made without departing from the principle or sacrificing the advantages of my invention, the essential features of which will be readily understood from the foregoing description, taken in connection with the drawings.

I am aware that it has been proposed to secure a knob to a spindle by means of a screw passed through the knob and secured to the spindle. My invention differs therefrom in providing the knob as well as the spindle with screw-threads and engaging the threads of the screw with the threads of both the spindle and knob, whereby a simpler and stronger connection is effected than by other means.

Having thus described my invention, what I claim is—

As a means for securing a knob to a spindle, and in combination with such knob and spindle, a single screw adapted to operate in connection with threaded portions of both knob and spindle, substantially as and for the purposes set forth.

In testimony whereof I have hereto set my hand this 2d day of May, 1883.

THOMAS HUNGATE PRESTON DENNIS.

Witnesses:

GEO. DOWNING,

8 Quality Court, London, Patent Agent.

JOHN DEAN,

17 Gracechurch Street, London.