(No Model.)

C. E. STELLER.

KNOB ATTACHMENT.

No. 365,878. Patented July 5, 1887.

FIG. 3.

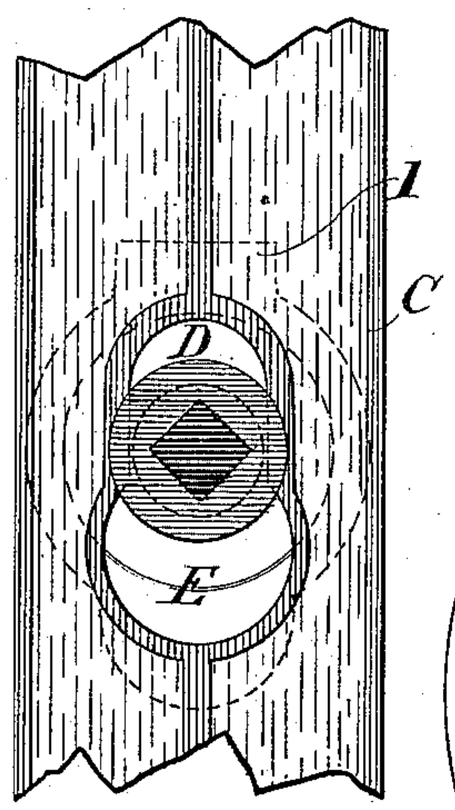


FIG. 4.

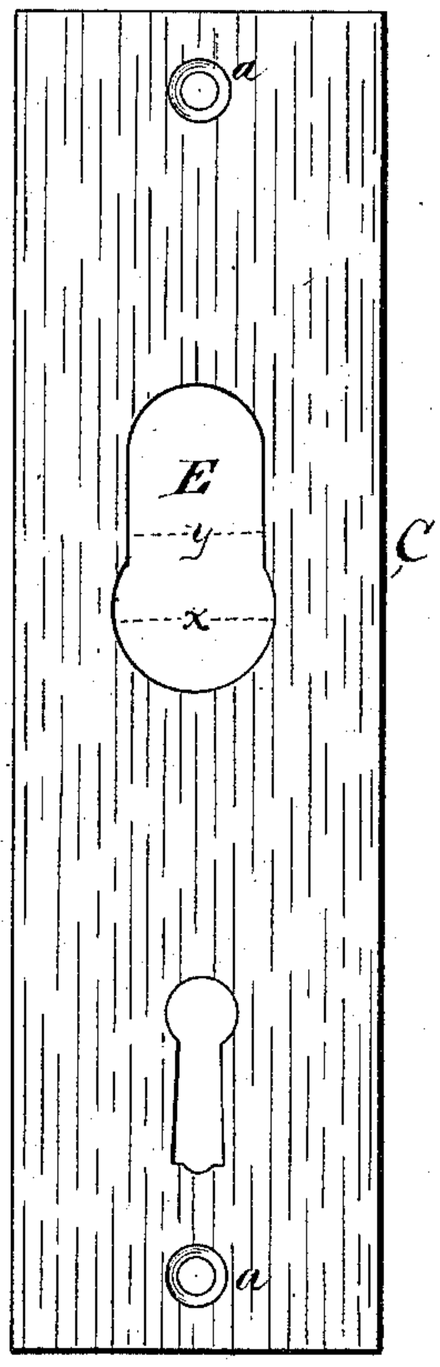


FIG. 1.

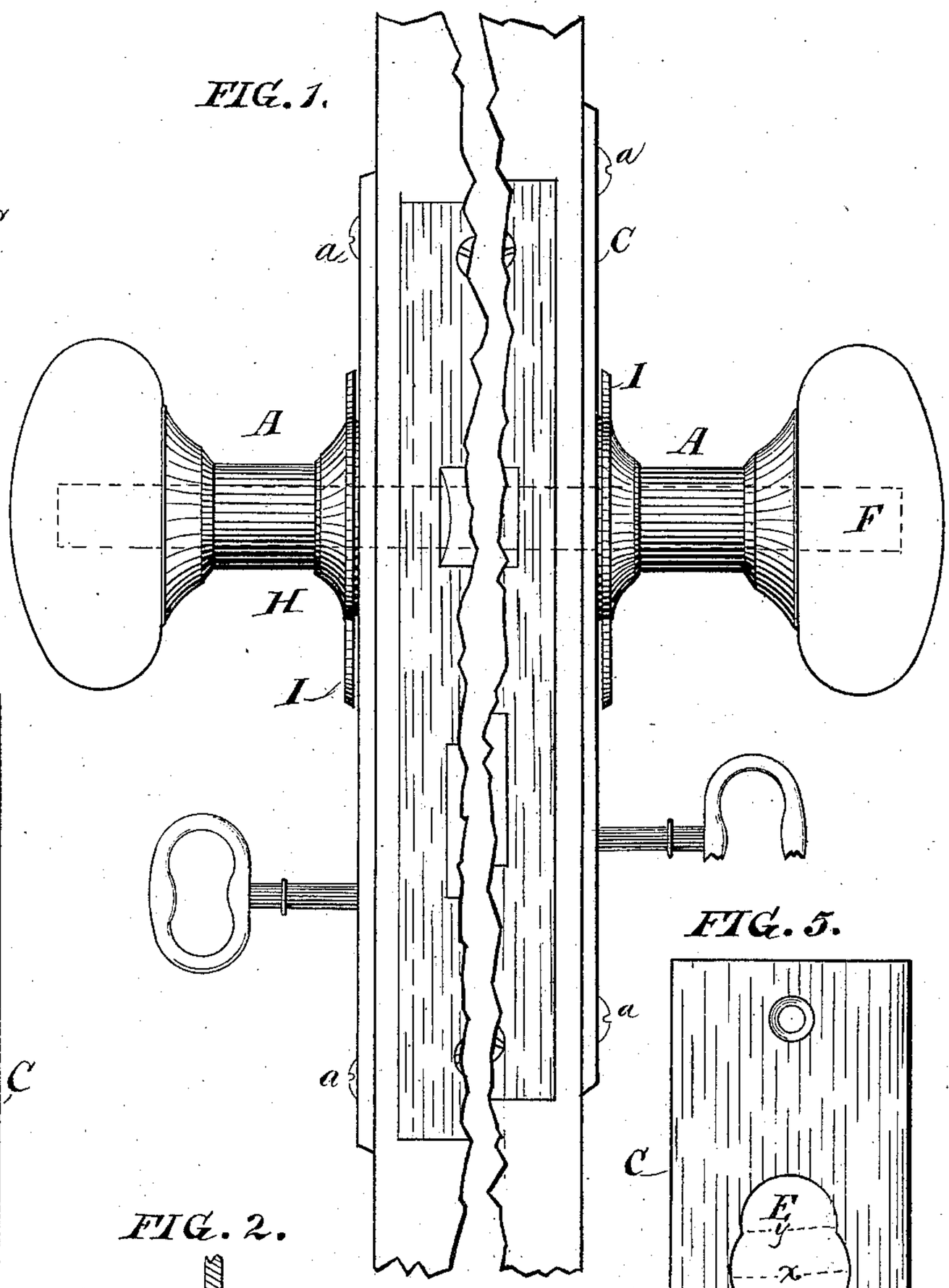


FIG. 5.

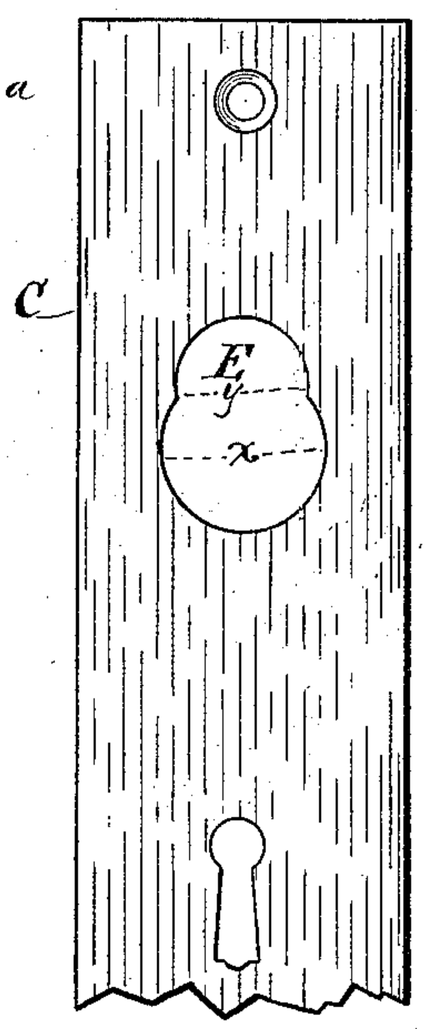
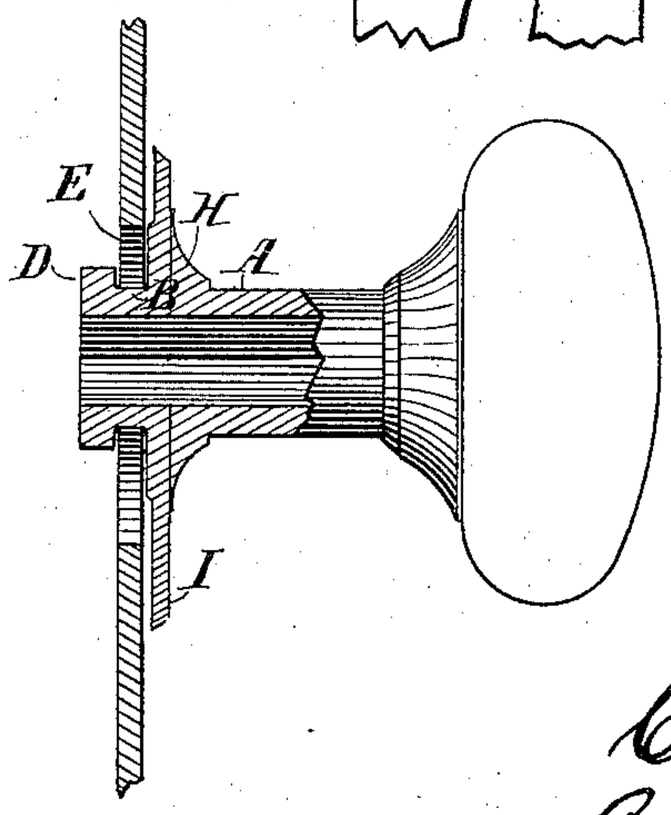


FIG. 2.



Witnesses.
C. L. Hoffmann
A. Keeney,

Inventor.
Charles E. Steller
By Emrich & Bradford
Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES E. STELLER, OF MILWAUKEE, WISCONSIN.

KNOB ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 365,878, dated July 5, 1887.

Application filed January 17, 1887. Serial No. 224,557. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. STELLER, of Milwaukee, in the county of Milwaukee and State of Wisconsin. have invented new and useful Improvements in Knob Attachments; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in devices for attaching the shanks of door-knobs to the respective sides of doors, and it pertains to the peculiar construction of the shank and the escutcheon-plate by which said shank is held in place in connection with the door.

The objects of my invention are twofold—first, to provide a simple and efficient device for attaching the door-knob, and, second, to provide means for adjusting the escutcheon-plate, by which the knob is attached higher or lower, as may be required to conform to locks of various sizes, and to bring the key-hole of the escutcheon in line with the key-hole of the lock.

Figure 1 of the drawings represents a front view of the edges of parts of two doors in close proximity to each other, showing escutcheon-plates of a given size adjusted to locks of different dimensions. Fig. 2 represents a vertical section through a portion of the escutcheon-plate and shank. Fig. 3 represents the rear or inner view of the escutcheon-plate with the shank of the door-knob engaging therein. Fig. 4 represents a front view of the escutcheon-plate having an elongated aperture which permits the adjustment of the plate to locks of various sizes. Fig. 5 represents a non-adjustable escutcheon-plate which is used for attaching door-knobs with locks of uniform size conforming thereto.

Like parts are represented by the same reference-letters throughout the several views.

The shank A of the door-knob is provided on its inner end with an annular groove, B, for the reception of the inner edge of the aperture E of the escutcheon-plate C, and an annular flange, D, which engages against the rear surface of the escutcheon-plate C when in position for use within the elongated aperture E. The aperture E in cross-section is formed in two different diameters, as indicated by the dotted lines *x* and *y*. The diameter at *x* is large enough only to permit the flange D of the shank to enter said aperture, while the smaller diameter, *y*, corresponds with that of the annular groove B. Thus it is obvious that the shank may be secured to the escutcheon-plate by inserting it through the larger part of the aperture and then lowering the escutcheon-plate until the edge of the aperture at its smallest diameter, *y*, is brought within the groove B and against the inner edge of the flange D, when the shank is held in place upon the spindle F and prevented from being withdrawn from the escutcheon-plate by contact of said flange D with said plate.

In Fig. 5 the aperture E is long enough only to engage upon the flange D of the shank when the shank D is at the upper extremities of said aperture, there being no room allowed in said aperture to adjust this form of escutcheon-plate to locks of different sizes, this form of aperture being used solely for fastening knobs to doors having locks of uniform sizes. When, however, it is desired to attach the escutcheon-plate to locks of various sizes, I use the elongated form of aperture shown in Fig. 4, which form permits said escutcheon-plate to be raised and lowered past the shank, as may be required to adjust the key-hole of the escutcheon-plate in line with the key-hole of the lock. The escutcheon-plate being properly adjusted with the key-hole thereof in line with the key-hole of the lock, and the inner edge of the aperture E engaging in the groove B of the shank A, it is rigidly secured at such a point of adjustment by screws *a a*, or otherwise.

That part of the aperture E which projects below the shank with the form of plate shown in Fig. 5 is obscured from view by the rose H. The rose H is cast in one piece with the shank, as shown.

To provide for covering that part of the aperture E which, in the adjustable form of escutcheon-plate shown in Fig. 4, projects above and below the rose H, an elongated disk or plate, I, is provided, which is preferably cast in one piece with the rose H, or it may be formed in a separate piece, as shown in Fig. 2.

It is obvious that as the spindle F is loosely fitted to the shanks, no screws or fastenings being employed, my device is adapted to fit doors of any thickness.

Having thus described my invention, I make no claim to the annular groove of the shank, except only as used in combination with my novel form of escutcheon-plate having a shank-retaining aperture of two different diameters, *x* and *y*, as stated, the larger diameter being for the reception of the end of the shank and the smaller to engage within such annular groove.

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

1. In devices for attaching door-knobs to doors, the adjustable escutcheon-plate C, provided with an elongated aperture, E, of two different diameters, *x* and *y*, the larger diameter, *x*, being of the same size of and adapted to admit the shank A of the door-knob, and the smaller diameter, *y*, of said aperture being adapted to engage in the annular groove B of said shank, in combination with said shank A, provided with annular groove B, said aperture E being adapted by its elongated shape to permit of the vertical movements of said escutcheon-plate, and the key-hole formed therein adjusted to the key-hole of locks of various sizes, substantially as and for the purpose specified.

2. In the devices for attaching door-knobs to doors, the adjustable escutcheon-plate C, having an elongated aperture, E, of two different diameters, *x* and *y*, in combination with the knob-shank A, having an annular retaining-groove, B, rose H, rigidly affixed to said shank, and elongated plate or disk I, adapted to cover the elongated aperture E above and below said rose, all substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES E. STELLER.

Witnesses:
JAS. B. ERWIN,
O. L. HOFFMANN.