(Model.)

C. W. BULLARD.

KNOB ATTACHMENT.

No. 323,393. Patented Aug. 4, 1885.

FIG. 2.

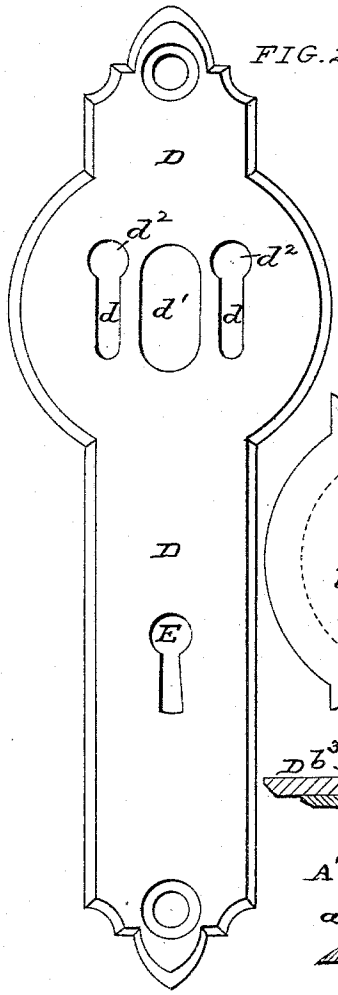


FIG. 1.

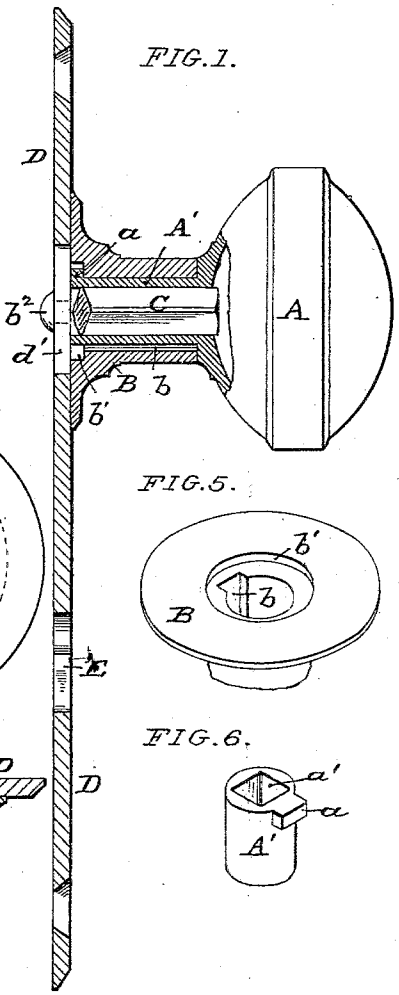


FIG. 7.

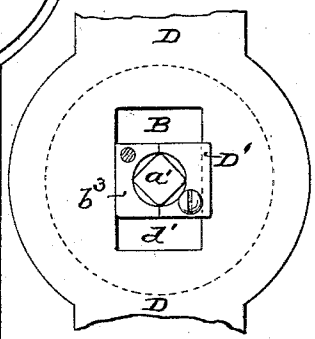


FIG. 5.

FIG. 8.

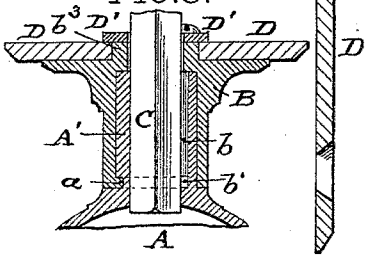


FIG. 6.

FIG. 3.

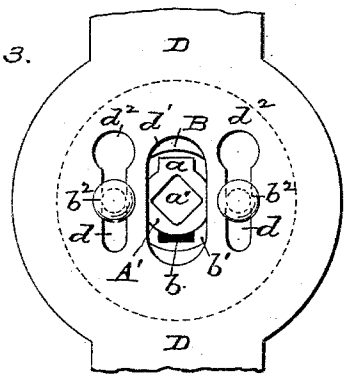
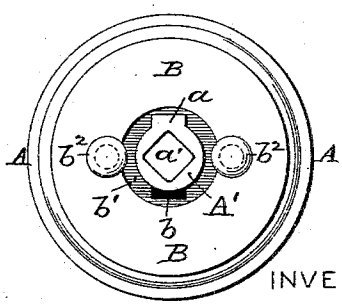


FIG. 4.



ATTEST:

G. Baumann Jr.

Robt. Burns

INVENTOR:

Chas. W. Bullard

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

CHARLES W. BULLARD, OF CHICAGO, ILLINOIS.

KNOB ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 323,393, dated August 4, 1885.

Application filed February 16, 1885. (Model.)

To all whom it may concern:

Be it known that I, CHARLES W. BULLARD, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Knob Attachments; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to improvements in attaching to their spindles that class of knobs or handles employed to operate door-locks or spring-latches; and the present improvement has for its objects, first, to provide a strong, simple, and efficient means for detachably securing the rosette or knob to the sleeve by which it is attached to the door; second, to afford means to admit of the adjustment of the rosette or door-knob upon its combined rose and escutcheon plate, so as to permit of the vertical adjustment of said rosette or knob to suit different sizes of locks or the varying distances between the key-hole and the spindle-hole of different locks. I attain such objects by the construction and arrangement of parts illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section through the knob or rosette and the combined rose and escutcheon plate, illustrating my improvement; Fig. 2, a front elevation of the combined rose and escutcheon plate; Fig. 3, a detail rear elevation of such plate and the attaching parts of the rosette or knob; Fig. 4, a rear elevation of the knob or rosette and its attaching-sleeve, showing the mode of connecting the same together; Fig. 5, a detail perspective view of the attaching-sleeve of the knob or rosette; Fig. 6, a similar view of the shank of said knob or rosette; Fig. 7, a detail rear elevation of the escutcheon-plate, &c., illustrating a modified form of attaching parts of the knob or rosette, and Fig. 8 a horizontal section of the same, illustrating a modification of the mode of connection between the rosette-shank and its attaching-sleeve.

Similar letters of reference indicate like parts in the several views.

Referring to the drawings, A represents the knob or rosette, preferably of metal, having a shank, A′, that passes through a sleeve, B, by which the knob is attached to the door or the escutcheon plate of the same, as the case may be. In the present invention it is preferred to make the attachment to the escutcheon-plate, for purposes hereinafter stated.

The shank A′ and sleeve B are detachably connected together in the following manner: *a* is a radial or outwardly-projecting lug at the inner end of the shank A′, which, when such shank is inserted into the sleeve B, passes along the groove or passage *b* in the inner periphery of the sleeve until the circular recess *b′* at the end of such sleeve is reached, when said lug is free to rotate, and thus permit of the turning of the shank A′ and its rosette A. It will be seen that any movement of the lug *a* in the recess *b′* past the groove *b* will lock the shank A′ and sleeve B together. In putting the parts together the shank A′, after being inserted in the sleeve B, will be turned half around, so as to bring the lug *a* diametrically opposite the groove *b* before the lock-spindle C is inserted in its squared receiving-hole *a′* in the rosette-shank A′, the purpose being to permit the usual rotation of the lock-spindle to take place without bringing the locking parts above described into a disengaging position.

While the above is my preferred mode of securing the rosette-shank to the attaching-sleeve, still I do not limit my invention to the precise arrangement shown, as the arrangement of parts can be reversed, so as to attain like results, to wit: by forming the lug *a* upon the sleeve B, and the groove *b* and recess *b′* upon the rosette-shank A′, as indicated in Fig. 8.

To permit of a vertical adjustment of the knob or rosette upon the combined rose and escutcheon plate D in relation to the key-hole E, so as to suit different sizes and styles of locks in which the distance between the key-hole and the lock-spindle vary more or less, I employ the following means: b^2 are a pair of headed posts or screws in the back or rear face of the attaching-sleeve B of the rosette A. These posts are intended to pass through elongated holes or slots *d* in the rose-escutcheon plate D, and by means of their heads secure the sleeve to said plate, the holes or slots being of an elongated form to permit of the above-mentioned adjustment of the knob or

rosette, the lock-spindle hole or slot d' being of a similar elongated form for a like purpose. While I prefer to use fixed posts b^2 upon the sleeve B to engage back of the plate D, by passing through an enlargement, d^2, of the holes or slots d at their top, as shown, yet it is evident that such enlargement can be dispensed with and other means substituted—such, for instance, as screwing such posts into the sleeve from the back of the escutcheon-plate. It is also evident that the elongated slots could be formed in the sleeve B with the posts b^2 arranged upon the escutcheon-plate and similar results attained; and, again, the sleeve B may be provided with a squared shank, b^3, by which it can be guided in the elongated spindle-slot d', the said shank b^3 being held in place by a confining-plate, D', secured to it by screws from the back of the escutcheon-plate D, as indicated. Figs. 7 and 8.

Having thus fully described my said invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the combined rose and escutcheon plate D, of the attaching sleeve B, adjustably secured thereto, and the shank A' of the door-knob or rosette, the one being provided with a groove, b, and a circular recess, b', and the other with a lug, a, essentially as set forth.

2. The combination, with the combined rose and escutcheon plate D, of the attaching-sleeve B, adjustably secured thereto, and provided with a groove or passage, b, and a circular recess, b', at its rear end, and the knob-shank A', provided with a projecting lug, a, at its end, essentially as set forth.

3. The combined rose and escutcheon plate D for door-locks, provided with an elongated slot to permit of an adjustment on the lock-spindle, in combination with the attaching-sleeve B of the knob or rosette, and means, substantially as herein described, for adjustably attaching said sleeve to the plate D, essentially as set forth.

4. The combination, with the door knob or rosette and the attaching-sleeve B, provided with screws or headed posts b^2, of the rose and escutcheon plate D, having elongated slots d d and d', substantially as and for the purpose set forth.

5. The combination, with the door knob or rosette, and the attaching-sleeve B, having screws or headed posts b^2, of the rose and escutcheon plate D, provided with elongated guide-slots d d, having enlargements d^2, and an elongated spindle-slot, d', essentially as and for the purpose set forth.

In testimony whereof witness my hand this 4th day of February, 1885.

CHAS. W. BULLARD.

In presence of—

ROBERT BURNS,

G. BAURMANN, Jr.