J. NAYLOR.

ATTACHING KNOB-ROSES TO DOORS.

No. 184,167. Patented Nov. 7, 1876.

Fig. 1.

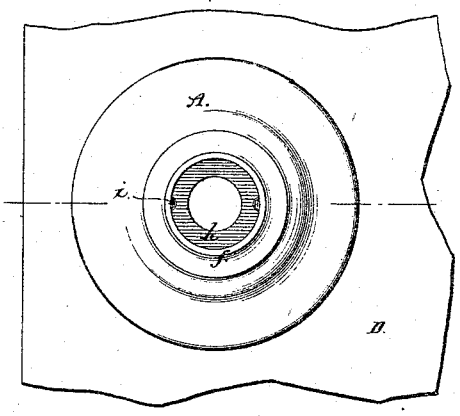


Fig. 2.

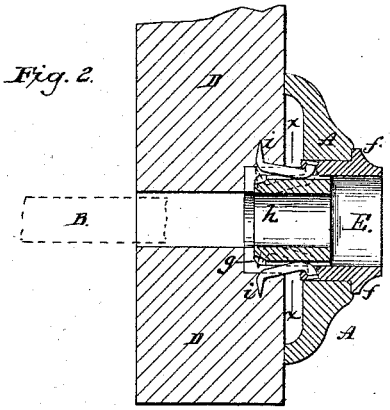
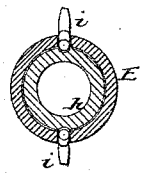


Fig. 3.



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JOSEPH NAYLOR, OF NEW YORK, N. Y.

IMPROVEMENT IN ATTACHING KNOB-ROSES TO DOORS.

Specification forming part of Letters Patent No. **184,167**, dated November 7, 1876; application filed October 11, 1876.

To all whom it may concern:

Be it known that I, JOSEPH NAYLOR, of New York city, in the county of New York, in the State of New York, have invented an Improvement in Attaching the Rose of Locks to the Door; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Previous to my invention it has been customary to have the "rose" or collar that fits around the knob-spindle of door-locks made and adapted to be secured by screws to the door to which the lock is applied.

This mode of construction of this part of lock-fixtures not only necessitates the labor of securing the rose or collar by the screws, but the presence of the latter more or less destroys the symmetrical appearance or superficial ornamentation of the surface of the rose, the objection to the exposure of the screw-heads being so great that in some classes of lock-fixtures the extra expense in manufacture is gone to of having a rough collar to be screwed to the door, made with a nut at its outer part and provided with an ornamented screw-cap or exposed collar, and to arrange the rose between these two parts to hide or cover over the part that is screwed to the door.

I propose to overcome these objections in the present mode of construction of lock-fixtures by providing a rose-fixture in which no screws are employed, and in which the rose is secured to the door by simply inserting the collar-shank into the hole bored through the door and forcing into place the knob shank and spindle; and to this end and object my invention consists in the use, in combination with the rose, of a bushing or tubular device, provided with one or more hold-fast devices which are protruded from the exterior of said bushing, and enter the wood of the door in such manner as to effect the retention of the bushing within the hole into which it is inserted, and thus fasten or hold in place against the surface of the door the rose of the lock-fixture, as will be more particularly explained hereafter.

To enable those skilled in the art to make and use my invention, I will proceed to more fully describe it, referring by letters to the accompanying drawings, in which—

Figure 1 is a face view; Fig. 2, a longitudinal section; and Fig. 3, a cross-section at *x x*, Fig. 2, of so much of a lock-fixture as it is necessary to show in order to exhibit my invention, and illustrating the fixture as secured to the door.

In the several figures the same parts are designated by the same letters of reference.

A is the rose, and B the spindle provided with a knob, all made about as usual, and represented as in a lock applied to a door, D. Instead of the rose A being made with screw-holes, however, for its securement to the door D, a bushing, E, is combined with it and the door, as I will now explain. This bushing is formed with a collar at *f*, which holds the rose A against the surface of the door, and has an inwardly-projecting flange, *g*, which serves as a seat for the plug *h*, and is provided with several—two, more, or less—fastening devices or hold-fasts, *i*, as shown. These fasteners *i* are so arranged in or combined with the bushing E and its annular plug *h* that, by the insertion of the plug within the bushing, the said hold-fasts are forced out sidewise from the bushing, so that their points take into the wood of the door, as clearly illustrated at Fig. 2. In this figure the dotted lines indicate the positions occupied by the hold-fasts *i* before the insertion of the plug *h*, and in which they have to be in order to insert the bushing E in the hole made in the door for its reception.

The operation or mode of use of the new fixture will be understood to be as follows: A hole is bored through the door of a diameter sufficient for the insertion of the bushing E. The rose A is slipped onto the bushing E and up against its collar *f*, in the position shown when the said bushing is inserted within the hole in the door, as seen at Fig. 2. The plug *h* is now put into the bushing E and forced down onto its seat, (the flange *g*,) in doing which the vibratory or pivoted fasteners *i* are forced outward from the position shown in dotted lines, Fig. 2, into the position shown in full lines, and their points are made to penetrate the wood of the door, or the walls of the hole in which the bushing E has been placed, all

as clearly represented. The prongs or points of the hold-fasts *i* having been thus forced into the wood of the door, the bushing E, it will be seen, will be securely fastened in, and, by means of its confining-collar *f*, will hold the rose A securely in place against the face of the door. The prongs or penetrating-points of the fasteners *i* are, by preference, so inclined or formed as to exert a tendency to draw the bushing E slightly inward as they are driven in, and thus make the collar *f* draw down closely onto the rose A, and hold the latter snugly against the door.

It will be understood that the bushing device, the plug, and the hold-fast devices may be varied in different respects as to the form and construction of each, and that, in lieu of the use of the separate plug *h*, the shank of the knob to be inserted, or some other means, may be employed to effect the forcing outward and into the wood of the legs and points of the hold-fasts without departing from my invention, the gist of which rests in the combination with the device which holds the rose toward the door-face, of hold-fasts by means of which the said device is fastened within the hole into which it is inserted, as I have explained.

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

As a means for securing the rose in place, a suitably-shaped bushing, having a collar for the retention of the rose, and hold-fasts adapted to penetrate the walls of the hole in which the bushing is placed, substantially as and for the purposes set forth.

In testimony whereof I have hereunto set my hand and seal this 2d day of October, 1876.

JOSEPH NAYLOR. [L. S.]

In presence of—

J. N. McINTIRE,

JACOB FELBEL.