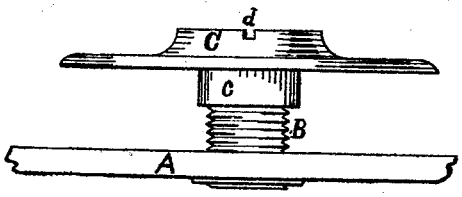
S. W. DROWNE.

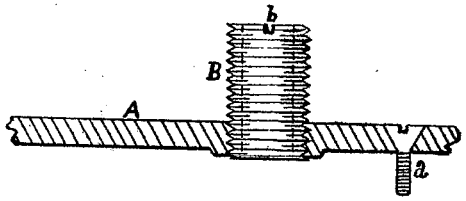
SECURING KNOB-ROSES TO LOCKS.

No. 183,043. Patented Oct. 10, 1876.

Fig' 1



Fig' 2



WITNESSES.

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SIMEON W. DROWNE, OF NORWICH, CONNECTICUT.

IMPROVEMENT IN SECURING KNOB-ROSES TO LOCKS.

Specification forming part of Letters Patent No. **183,043**, dated October 10, 1876; application filed December 3, 1875.

To all whom it may concern:

Be it known that I, SIMEON W. DROWNE, of Norwich, in New London county, State of Connecticut, have invented certain Improvements in Locks and Latches, of which the following is a specification:

The object of my invention is to provide a convenient and strong means of securing the roses and escutcheons upon the sides of doors without visible fastenings; also, of firmly connecting the roses to the lock or latch, and thereby to each other, without any trouble arising from the varying thickness of the doors; and by holding the latch firmly in place, rendering the use of screws to hold the latch unnecessary. This mode of attachment also makes and keeps both roses exactly in line with the spindle-hole in the latch, so that the spindle of the latch-knobs, at all times, and even after long use, turn freely, thereby entirely obviating the disagreeable and troublesome looseness now found in the ordinary knobs and roses after limited rough usage.

My invention consists in cutting a screw-thread in the holes in the latch-plates, through which the knob-spindle passes, the plates about the hole being made somewhat thicker for this purpose, and screwing tight into each plate, after the lock has been set in the mortise of the door, an exteriorly screw-threaded tube or thimble; and making the roses in the ordinary manner, except that a central annular flange is made upon their inner sides, which flange is screw-threaded internally. These roses are then screwed upon the thimbles until they clamp the door tightly between them, thus securing not only the roses but the lock firmly in position; and providing firm and free bearings for the knob-spindle.

If by use or by the shrinkage of the wood the roses should become loose, they may be instantly screwed tight without removing the knobs.

Figure 1 is a side view, showing the parts of my improvement in the position they occupy when put together upon the door. Fig. 2 shows the thimble set in position with the rose removed.

A represents the rear portion of the plate of the lock or latch. B is the screw-threaded tube or thimble, which should have a small slot, *b*, cut across its outer end, by which it may be screwed tight into the plate A after the latch has been set in the mortise of the door. C is the rose, which should be made with the central annular flange *c* upon its inner side, having an internal screw-thread, and also the slot *d*, across the ordinary annular flange upon the outside, by which it is screwed down upon the thimble B until it clamps the door tight, and by which also, by means of a forked wrench, it may be tightened upon the door without removing the knob whenever loosened by shrinkage or by use, the object of the flange *c* upon the rose being to give sufficient travel to the rose upon the thimble to accommodate itself to varying thickness of doors.

To strengthen the latch-plate for the strain of the rose and thimble upon it, an additional screw, *a*, should be inserted in the rear of the latch.

I claim as my invention—

The exteriorly-screw-threaded detachable tube or thimble B, when made and used as herein described, to screw into the threaded plate A of a mortise-lock, in combination with the threaded flanged rose C *c*, which travels upon the thimble far enough to adapt the rose and the lock to be secured upon doors of various thickness, as herein described.

SIMEON W. DROWNE.

Witnesses:
H. S. COIT,
WEBSTER PARK.