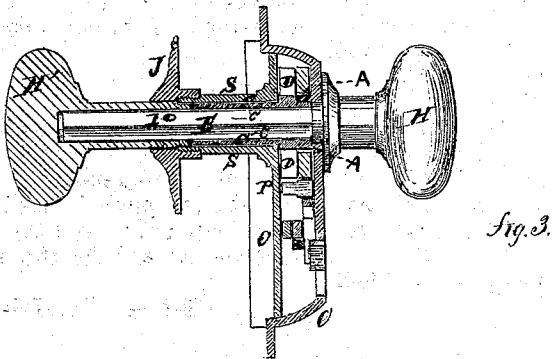
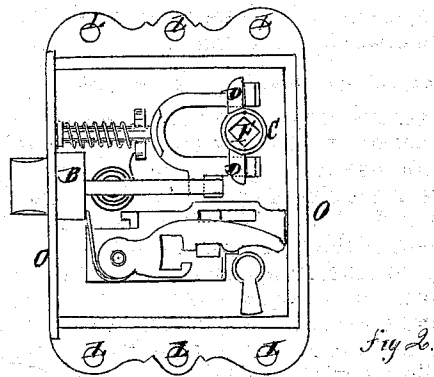
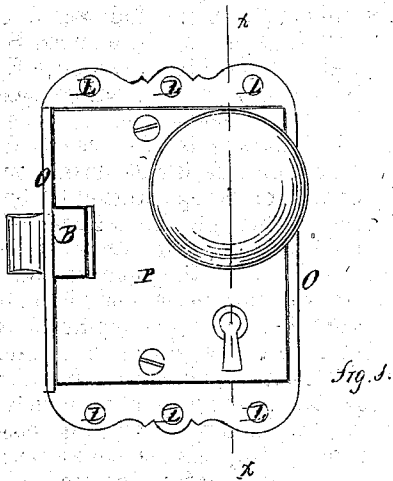


J. M. A. DEW.

Knob-Latches.

No. 136,141.

Patented Feb. 25, 1873.



WITNESSES:

Lewis L. Coburn.
Heinrich P. Bruns

INVENTOR:

James M. A. Dew

UNITED STATES PATENT OFFICE.

JAMES M. A. DEW, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN KNOB-LATCHES.

Specification forming part of Letters Patent No. 136,141, dated February 25, 1873.

To all whom it may concern:

Be it known that I, JAMES M. A. DEW, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Door-Locks, of which the following is a specification, reference being had to the accompanying drawing.

The Nature and Object of my Invention.

This invention relates to improvements in the construction of latches, to adapt them more perfectly for use upon the doors of railway cars where great strength and width of bearing and attachment are required to counteract the effect of the constant motion and shaking, which will inevitably soon disorganize an ordinary latch by wearing away the bearings of the spindle and bolt and loosening the escutcheon; and the invention consists in making the follower with a long tubular bearing, which projects through a similar larger tube cast to the back plate and extending to the rear through the door. Through this first-mentioned tube the knob-spindle passes, being thus afforded a long bearing. To the second or outer tube, at its rear extremity, is attached or screwed the escutcheon-plate for holding the knob in place, as will more fully hereinafter be explained.

Description of the Drawing.

Figure 1 represents the plan view of the back side of the lock; Fig. 2, a plan view of the lock with the back plate P removed; and Fig. 3 represents a sectional view taken at the line *xx* of Fig. 1.

General Description.

O is the lock-plate constituting the body of the lock. B is a bearing cast on the plate about the opening through it for the bolt. This wide bearing strengthens the bolt and prevents it wearing the plate so as to become loose. P is the back plate of the lock, and S a sleeve cast upon it. A is a flange cast on

the plate O, and C is a follower, to which the projections D are attached that operate the lock. E is the square spindle, which fits into the square opening F in the follower C, so as to turn it with the spindle. The knobs H and H' are securely fastened to the spindle E, the knob H' being fastened by a screw passing through it into the screw-hole I. J is the escutcheon and screws to the sleeve S, as shown, so that the lock is held firmly on the door independent of being screwed on by the ordinary screws through the screw-holes L. The escutcheon J also covers the screw that fastens the knob H' to the spindle and prevents it from working loose, and the knob is also kept more firmly on the spindle by its shank passing into the sleeve S, as shown. The follower C turns in the sleeve S, and also in the flange A, and is by them held securely in place and prevented from working loose.

The interior of the lock is constructed of the well-known parts ordinarily used to constitute the working parts of a door-lock. They constitute no part of this invention, therefore need not be described. The working parts of any ordinary door-lock may be used.

In the drawing, however, I show a simple lock, which is in common use so far as the working-part is concerned, and will be readily understood by one skilled in the art without further explanation.

Claim.

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

The combination and arrangement of the sleeve S, cast solid with the plate P, the hollow shank or follower support C, and the escutcheon J, substantially as and for the purpose specified.

JAMES M. A. DEW.

Witnesses:

LEWIS L. COBURN,
HEINRICH F. BRUNS.