

J. SCHLUTTER.

NUT LOCK.

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1,073,176.

Patented Sept. 16, 1913.

*Fig. 1.*

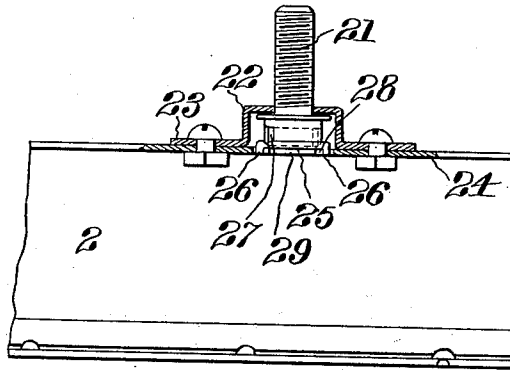


*Fig. 2.*

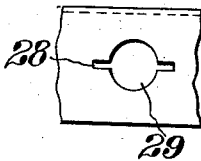
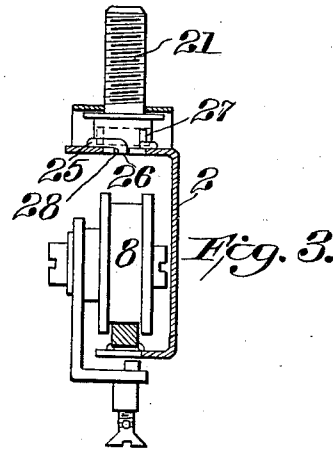


*Fig. 4.*



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## NUT-LOCK.

1,073,176.

Specification of Letters Patent.

Patented Sept. 16, 1913.

Application filed April 11, 1912. Serial No. 690,066.

*To all whom it may concern:*

Be it known that I, JOHN SCHLUTTER, a citizen of the United States of America, residing at city of Baltimore, State of Maryland, have invented certain new and useful Improvements in Nut-Locks, of which the following is a specification.

This invention relates to a nut and bolt lock particularly adapted for use in connection with a bolt for supporting a suspended member as a track for sliding doors.

The device in its preferred form is illustrated in the accompanying drawing, in which—

Figure 1 is an elevation showing the device in operation. Fig. 2 is a plan showing a fragment of the supported member in the vicinity of the bolt head. Fig. 3 is a section through the door hanger track showing the bolt and lock in elevation. Fig. 4 is a plan of the locking device shown in connection with the bolt head seen from below.

The drawing shows a rail support 2 suspended by means of vertical screws 21. These screws are threaded in an overhead member, not shown, and have a swivel bearing in the support 2. As shown, there is a strap 22 bent in a U form having a flange 23 at the end of each leg of the U. These flanges are secured to the top web 24 of the member 2, and the strap is centrally apertured to receive the screw 21, the head of which is downwardly disposed and overlies the top flange of the web 24 of the member 2. The head is slotted at 27 for engagement by a screw-driver, the slot being slightly deeper than would ordinarily be necessary for this purpose. To lock this screw against accidental rotation by which the level of the member 2 would be disturbed, I provide a locking pin 25 which rides in the slot. This pin preferably has its ends turned down to form depending lugs 26. These lugs engage corresponding slots 28 in the top flange of the supported member 2. The top web or flange of the member 2 has a circular aperture 29 to admit the screw-driver, and, as shown, the slots 28 open into this aperture. The screw 21, as shown, is vertically placed with its head downward, and the locking pin 25, while carried in the slot 27 of the screw, rests on the top flange 24 of the member 2, and the ends 26 when brought over the slots 28, fall

into place therein. However, it is apparent that other means than gravity may be employed to bring the locking device into operative position.

When it is desired to change the adjustment of the member 2 by turning the screw, an ordinary screw-driver is inserted in the slot 27. When this is done, the blade first engages the locking pin 25 and forces it upward. As the blade enters the slot of the screw, the ends or lugs 26 are lifted out of the slots 28 in the flange 24 and the screw is free to be turned. When the screw-driver is withdrawn, the locking pin immediately drops to a bearing on the flange and fractional rotation of the screw brings the lugs 26 into registration with the slots 28 and they drop into position therein, locking the screw against further rotation.

The locking pin, which has been illustrated, is of substantially S-shape, the central portion of the S being straight to conform to the screw slot and the upper and lower arms of the S being curved to embrace the periphery of the screw-head which is circular, the curved portions of the pin serving to hold it in position relatively to the screw-head and hold the lugs 26 vertically.

The operation of the nut lock has been fully set forth, and it will be clearly understood when this description is read in connection with the drawings.

In order that the nature of my device may be clear, I have described it in minute detail, but the specific terms herein are used descriptively rather than in their limiting sense and the scope of the invention is defined in the claim.

I claim—

In combination, a depending screw having a slotted head and a lock therefor consisting of an S-shaped member having its central portion straight and fitting in the slot and a stationary plate apertured to receive the screw-driver and having slots adjacent the aperture, the S-shaped member having depending extremities fitting in the slots.

Signed at Baltimore April 3rd 1912.

JOHN SCHLUTTER.

Witnesses:

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