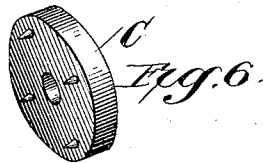
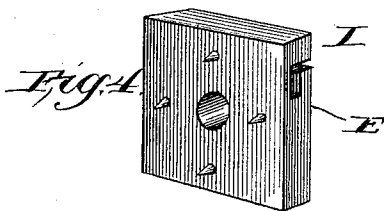
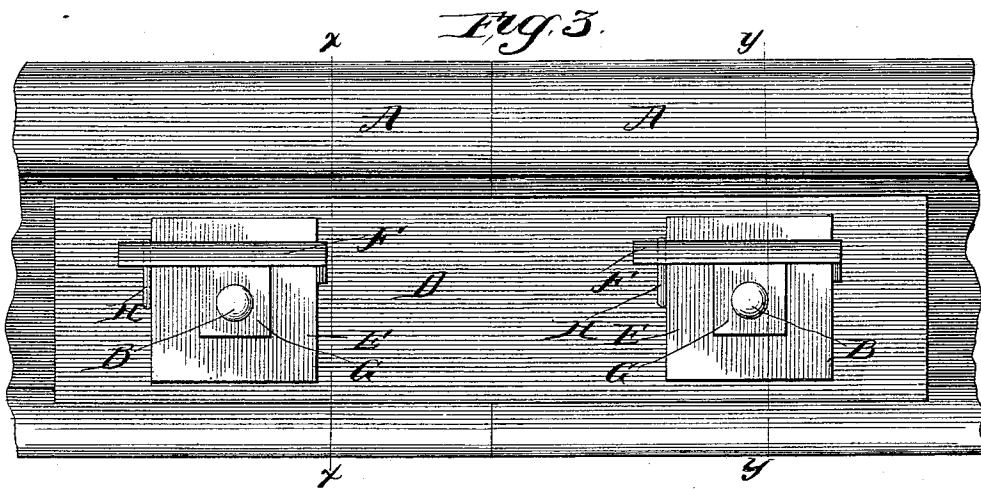
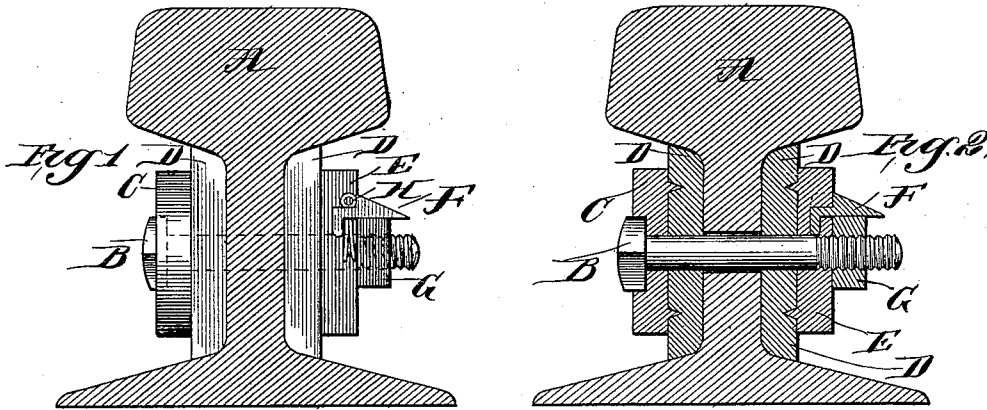


(No Model.)

V. E. WHITELOCK.
NUT LOCK.

No. 472,242.

Patented Apr. 5, 1892.



Witnesses

Wm. M. Rheem.

J. L. Gerry

Inventor.

Virde E. Whitelock

By Hall & Brown.

Attys.

UNITED STATES PATENT OFFICE.

VIRDI E. WHITELOCK, OF MORTIMER, OHIO.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 472,242, dated April 5, 1892.

Application filed August 10, 1891. Serial No. 402,183. (No model.)

To all whom it may concern:

Be it known that I, VIRDI E. WHITELOCK, a citizen of the United States, residing at Mortimer, in the county of Hancock and State of Ohio, have invented a new and useful Improvement in Nut-Locks, of which the following is a specification.

My invention relates to that class of devices known as nut-locks; and it consists in the construction and arrangement of parts hereinafter described, and more particularly pointed out in the claims.

Like letters of reference are used to designate similar parts in the several figures of the drawings, in which—

Figure 1 is a vertical cross-section taken on the line *xx* of Fig. 3, showing my invention applied thereto. Fig. 2 is a vertical section taken on the line *yy* of Fig. 3, showing the various parts of the device. Fig. 3 represents a side elevation of the adjacent ends of two T-rails and fish-plate with my invention shown. Fig. 4 is a perspective view of the grooved block. Fig. 5 is a perspective view of the disk, and Fig. 6 is a perspective view of the locking-key fitting in said grooved block.

Great trouble has been experienced in obtaining a nut-lock which shall be simple and effective and at the same time economical in its construction. With this in view I have designed the construction illustrated, in which E represents a block of any suitable material placed on the inner side of and adjacent to the nut. This block E has cut in its outer face an L-groove to conform in shape to the flanged key or lock F, which is designed to pass through the same. Said key F is provided at one end with an extension or flange *a* and at the other end with an aperture for the insertion of a pin, whereby said bar F is held in such groove. A disk C is countersunk, as shown, for the reception of the head of the bolt B. The disk C and the block E are provided on their inner faces with projections fitting in corresponding indentations in the fish-plates D D—in one case to prevent the bolt from turning and in the other to keep the block from turning on the bolt.

The method of operation of my device is as follows: The bolt B, having had placed upon it the disk C, which, as before stated, is countersunk for the reception of the head of the

bolt, is passed through the rail and the fish-plates lying on either side thereof, and the block E is put in position over said bolt, care being taken that the projections on both the disk and block fit the indentations in the fish-plates. The nut is then screwed onto the bolt, and the key or lock F passed through the groove I and held therein by the pin H, extending through the opening K. The flat face of the key is thereby held against one of the sides of the nut and of course prevents the latter from turning.

It is obvious that various modifications might be made in the details of my device without departing from the spirit of my invention, and I do not wish to be understood as limiting myself to the exact construction shown and described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a nut-lock, the combination of a bolt, a plate adjacent to the fish-plate on one side of the rail and countersunk for the head of such bolt, a grooved plate adjacent to the other side of such rail and supporting the nut for such bolt, a key fitting such groove and bearing against one side of the nut, and means whereby said plates are retained in a stationary position relative to the fish-plates, substantially as and for the purpose set forth.

2. In a nut-lock, the combination of a bolt, a plate adjacent to the fish-plate on one side of the rail and countersunk for the head of such bolt, a second plate having an angular groove therein and adjacent to the fish-plate on the other side of such rail, a flanged key fitting such angular groove and bearing against one side of the nut, and means whereby said plates are retained in a stationary position relative to the fish-plates, substantially as and for the purpose set forth.

3. In a nut-lock, the combination of a bolt, a plate adjacent to the fish-plate on one side of the rail and countersunk for the head of such bolt, a second plate having an angular groove therein and adjacent to the fish-plate on the other side of such rail, a flanged key fitting such angular groove and bearing against one side of the nut, said key having an extension at one end thereof and an opening in its opposite end and a pin passing

through the said opening, and means whereby said plates are retained in a stationary position relative to the fish-plates, substantially as and for the purpose set forth.

- 5 4. In a nut-lock, the combination of a bolt, a countersunk plate for the head of such bolt, a second plate adjacent to the nut on the other end of the bolt and having an angular groove therein, each of said plates provided
10 with one or more projections on their inner faces, and a key with an angular flange and

a projecting ledge resting against one side of the nut, said key having an extension at one end and an opening through its other end, and a pin passing through said opening, substantially as and for the purpose set forth. 15

In witness whereof I have hereunto set my hand in the presence of two witnesses.

VIRDI E. WHITELOCK.

Witnesses:

ALFRED GRABER,
I. GARMAN.