

R. P. THOMAS.

NUT-LOCK.

No. 174,323.

Patented Feb. 29, 1876.

Fig 1

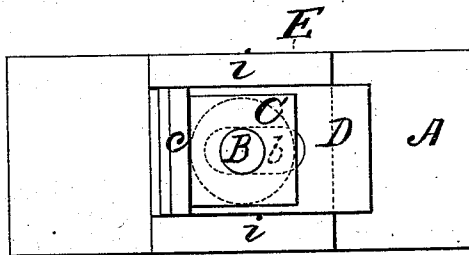
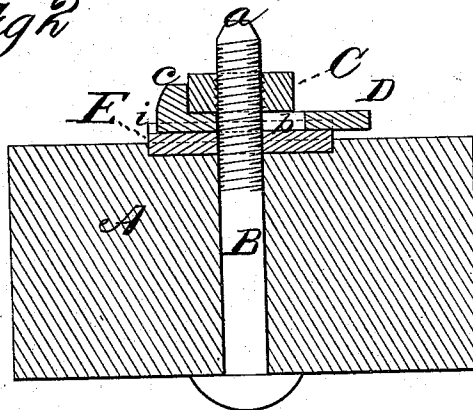


Fig 2



WITNESSES

George E. Uprau
Francis J. Massi

INVENTOR

Robert P. Thomas
Gilmore & Co
ATTORNEYS

UNITED STATES PATENT OFFICE.

ROBERT P. THOMAS, OF BARNESVILLE, OHIO.

IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. **174,323**, dated February 29, 1876; application filed January 15, 1876.

To all whom it may concern:

Be it known that I, ROBERT P. THOMAS, of Barnesville, in the county of Belmont and State of Ohio, have invented a new and valuable Improvement in Nut-Locks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my nut-lock, and Fig. 2 is a longitudinal vertical sectional view of the same.

This invention has relation to improvements in nut-locks which are designed to be used in connection with fish-bars, and for other purposes; and it consists in a slotted plate, which is provided with a raised flange on one end, at right angles to the plate, and is passed over the screw-threaded end of the bolt in advance of the nut. The latter being set up forcibly, the slotted plate is driven up, so that the flange shall abut against the nut, thus holding it from undue rotation, all as will be hereinafter more fully explained.

In the annexed drawing, the letter A designates a wooden block. B is a broad-headed metallic and screw-threaded bolt. C is an ordinary nut applied upon the end of bolt B, and D is a locking-plate, the construction of which I shall hereinafter fully explain. As shown in Fig. 2, bolt B passes through block A and projects a certain distance. It is of the usual well-known form used in railroad fish-plates, and is supplied with a nut, C, upon its upper screw-threaded end *a*. Locking-plate D, above alluded to, is a rectangular strip of metal, having a slot, *b*, cut in its length, and provided with a raised flange or lip, *c*, on one end, at right angles to the length of the said plate, and it is passed over the projecting end of the bolt in advance of the nut. The locking-plate is drawn away from the bolt, so as to allow the nut to be set up, which being accomplished, locking-plate D is

driven up toward the bolt until the lip *c*, formed thereon, is brought in contact with a flat surface of the said nut, thereby locking the latter against rotation until the said plate is driven back a sufficient distance, when it may be loosened, in the usual manner, by the use of a suitable wrench.

I employ a metallic washer, E, of suitable dimensions, which will be passed over the bolt in advance of the locking-plate and nut, and will be recessed into block A. This washer will be provided upon its edges with a raised flange, *i*, between which locking-plate D will be received, and by which it will be guided when being driven upon the nut. Washer E is of rectangular form, and, being recessed into block, will be incapable of rotating independent thereof; consequently it will hold the said lock-plate against rotation, and when its lip is in contact with the nut it will also prevent any rotation of the latter.

By this means a most effective lock is obtained for the nut, which is not only effective in its application to railroad fish-plates, but to many other similar purposes not herein necessary to specify.

I am aware that a bolt having a right and left hand screw-thread, with a space between them to receive a sliding, slotted locking-plate, provided with flanges and projections formed to fit into notches on the corners of the nuts, has heretofore been employed, and I therefore lay no claim to such invention.

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

The washer E, recessed into block A, and having flanges *i i*, in combination with the slotted locking-plate D, having lip *c*, bolt B, and nut C, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ROBERT P. THOMAS.

Witnesses:

JAS. W. WALTON,
EDWARD G. ADAMS.