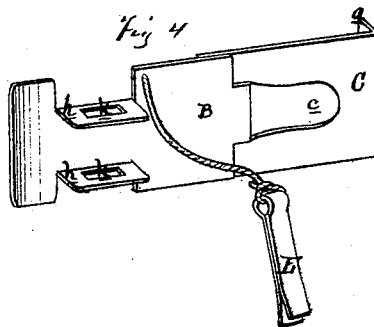
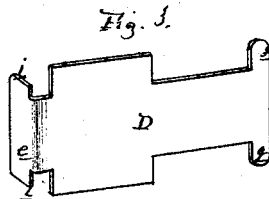
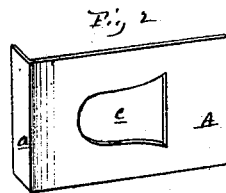
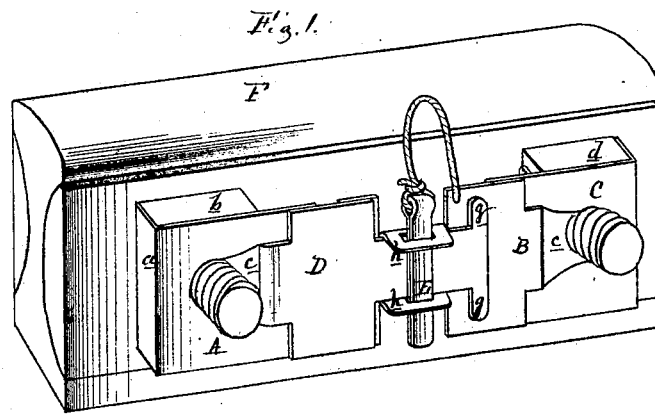


*Dyer Jr. Parker & May,*

*Lock Mkt.*

*No. 108,987.*

*Patented Nov. 8, 1870.*



Attest.  
*Sam J. Spray*  
*Amos D. Clwen*

Invention.  
*Robert J. Parker*  
*May 1870*  
*per atty*  
*Thos. H. Spangler*

# United States Patent Office.

PHILIP DYER, JR., ABRAM PARKER, AND WILLIAM B. WAY. OF PONTIAC, MICHIGAN.

Letters Patent No. 108,987, dated November 8, 1870.

## IMPROVEMENT IN LOCK-NUTS.

The Schedule referred to in these Letters Patent and making part of the same.

*To whom it may concern:*

Be it known that we, PHILIP DYER, Jr., ABRAM PARKER, and WILLIAM B. WAY, of Pontiac, in the county of Oakland and State of Michigan, have invented a new and useful Improvement in Nut-Locks; and we do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 shows a section of rail, fish-plates, and bolts and nuts provided with our locks.

Figures 2, 3, and 4 are sections.

Like letters indicate like parts in each figure.

The nature of this invention relates to the construction of a nut-lock, by means of which the nuts employed upon the bolts which secure the fish-plates of railway-joints in place.

It consists in four pieces of sheet or other metal, struck, cut, or cast into proper shape, which interlock with each other and with the nuts, in such a manner as to prevent the latter from turning or becoming accidentally loosened, the whole being secured together by a key, as more fully hereinafter described.

In the accompanying drawing—

A represents a flat and thin piece of metal, provided with a flange, *a*, to engage with the outer side of the nut *b*, and provided with a slot, *c*, which terminates in a square end, as shown.

C is another piece of metal, the exact duplicate of the one, A, just described, and engages with the outer side of the nut *d*.

D is another thin and flat piece of metal, of the form shown in the drawing, and provided with a flange, *e*, which passes through the slot *c* in the piece A, and engages with the opposite side of the nut *b*.

The flange *e* is provided with shoulders *i*, by means of which the flange is prevented from its disengagement with the slot *c*; it is also provided with projecting lugs *g* at the end of its prolongation, which is narrower than its body, for the purpose hereinafter explained.

B is a similar piece to that last described, with a similar flange engaging through the slot *c* in the plate C with the opposite side of the nut *d*, and provided with flanges *h*, through which are the slots *k*, to receive the key E.

The plates A and C being placed so that their flanges engage with the outer sides of the nuts *a d*, whose sides are at right angles with the face of the rail F, and with the ends of the bolts upon which said nuts are placed projecting through the slots *c*, the plate B is interlocked through the slot *c* in the plate C in such a manner that its flange rests against the opposite side of the nut *d*, and the plate D is similarly interlocked with the slot in the plate A, so as to rest against the inner side of the nut *b*, and its narrow prolongation is pressed down between the flanges *h* of the plate B, when the whole is rigidly secured together by the insertion of the key E through the slots *k*.

What we claim as our invention, and desire to secure by Letters Patent, is—

A nut-lock, wherein the plates A B C D are constructed and operate substantially as described, and secured by the key E, as herein set forth.

PHILIP DYER, JR.  
ABRAM PARKER.  
WILLIAM B. WAY.

Witnesses:

A. W. BURTT,  
F. S. STEWART