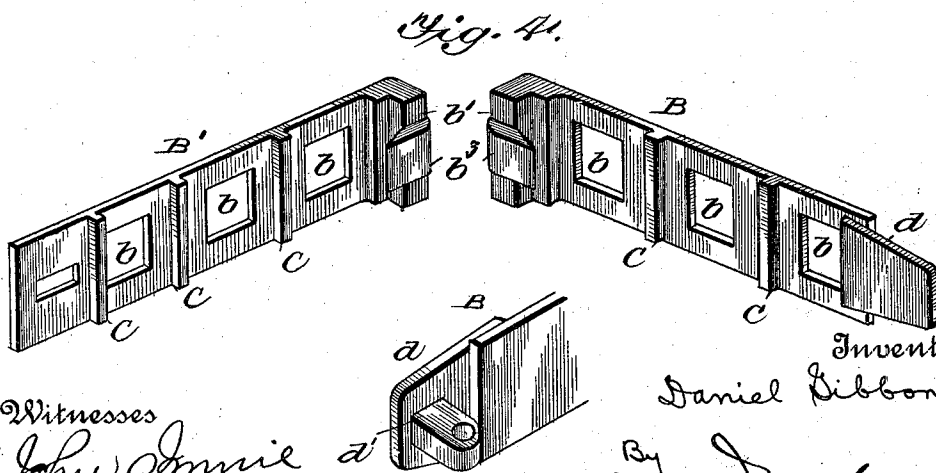
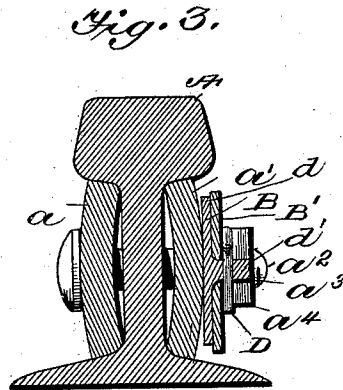
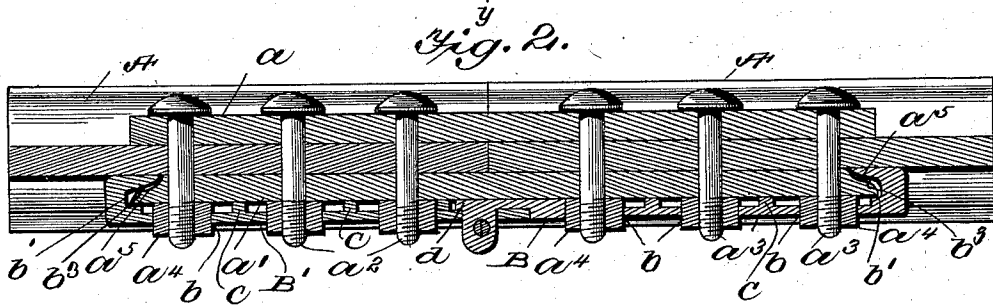
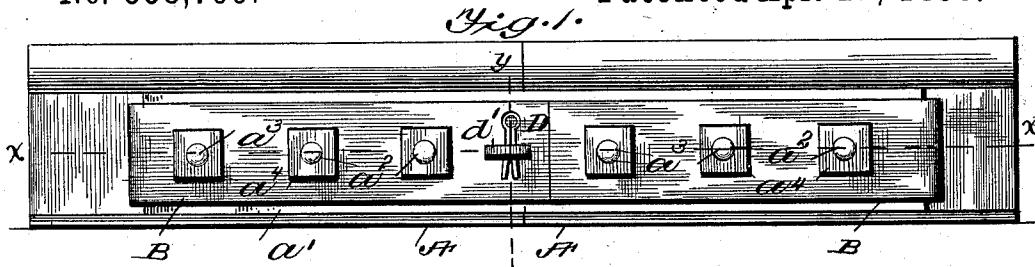


(No Model.)

D. GIBBONS.
NUT LOCK.

No. 558,799.

Patented Apr. 21, 1896.



Witnesses
John Ammie
Wm S. Dodge

Inventor
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UNITED STATES PATENT OFFICE.

DANIEL GIBBONS, OF WEST TROY, NEW YORK, ASSIGNOR OF ONE-HALF TO
JAMES FORSYTH, OF SAME PLACE.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 558,799, dated April 21, 1896.

Application filed October 8, 1895. Serial No. 565,006. (No model.)

To all whom it may concern:

Be it known that I, DANIEL GIBBONS, of West Troy, in the county of Albany and State of New York, have invented certain new and useful Improvements in Nut-Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention contemplates certain new and useful improvements in nut-locks, being specially designed for use in connection with rail-joint fish-plates.

The object of the invention is to produce a simple and efficient locking device for the nuts on the locking-bolts of a fish-plate, which locking device can be readily and easily placed in position and will effectively prevent the turning of said nuts under any circumstances.

A further object is to provide a locking device for said nuts which can be quickly removed in the event of the breaking of one of the securing-bolts of the fish-plate, whereby the injured bolt can be quickly replaced.

The invention will be hereinafter fully set forth, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a view in side elevation illustrating my improved nut-lock. Fig. 2 is a horizontal sectional view on the line *xx*, Fig. 1. Fig. 3 is a transverse sectional view on the line *yy*, Fig. 1. Fig. 4 is a detail perspective view of the locking-plates.

Referring to the drawings, A A designate two rails, the meeting ends of which are designed to be united by fish-plates *a a'*, the webs of said rails being provided, as customary, with holes or openings through which and coincident holes or openings in said fish-plates are passed the locking-bolts *a²*. These bolts are provided with threaded ends *a³*, on which work nuts *a⁴*, adapted to bear against the outer face of fish-plate *a'*, the heads of said bolts bearing against the outer face of the opposite fish-plate. In the ends of the fish-plate are formed recesses *a⁵*, which extend inward a short distance.

B B' designate the locking-plates, each of which is provided with holes or openings *b*, equal in number to and corresponding in shape with the securing-nuts *a⁴*. Each of the locking-plates is provided with a shoulder *b'*

at its outer end, said shoulders being adapted to fit around the ends of the fish-plate *a'*. From each shoulder *b'* projects a hook *b³*, which extends on a line with the inner face of each plate. These hooks are designed to extend over the ends of the fish-plate and fit snugly in the correspondingly-shaped recesses *a⁵* in the ends of said fish-plate.

The locking-plates B B' are each provided on their inner faces with transverse ribs C, which rest against the fish-plate, so that said locking-plates do not come in contact with said fish-plate, but engage the nuts at about their centers. The plate B is provided with an offset *d*, having a projecting lug or ear *d'*, which extends through a hole or opening of plate B', and through a hole or opening therein is inserted a spring locking-key D.

In practice the hooked ends of the locking-plates are first caused to engage the ends of the fish-plate, and after the plate B' is positioned the other plate B is closed down, so that their inner ends will overlap and the lug or ear of the former will project through the hole of the latter. The key is then inserted and the two parts locked together.

The advantages of my invention are apparent to those skilled in the art to which it appertains.

It will be seen that I have produced a simple and inexpensive locking device which can be quickly and readily applied or placed in position and which will serve as an efficient lock when so positioned.

I claim as my invention—

The combination with the fish-plate having recesses in its ends, and nutted bolts, of locking-plates having hooks at their outer ends for fitting in said recesses and having openings to accommodate said nuts, said plates at their inner ends overlapping and provided one with a lug or ear, and the other with a hole for said lug or ear, a locking-key in said ear or lug, and a series of transverse ribs on the inner faces of said plates between said openings, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

DANIEL GIBBONS.

Witnesses:

CHARLES T. MOORE,
ABRAM HILTON.