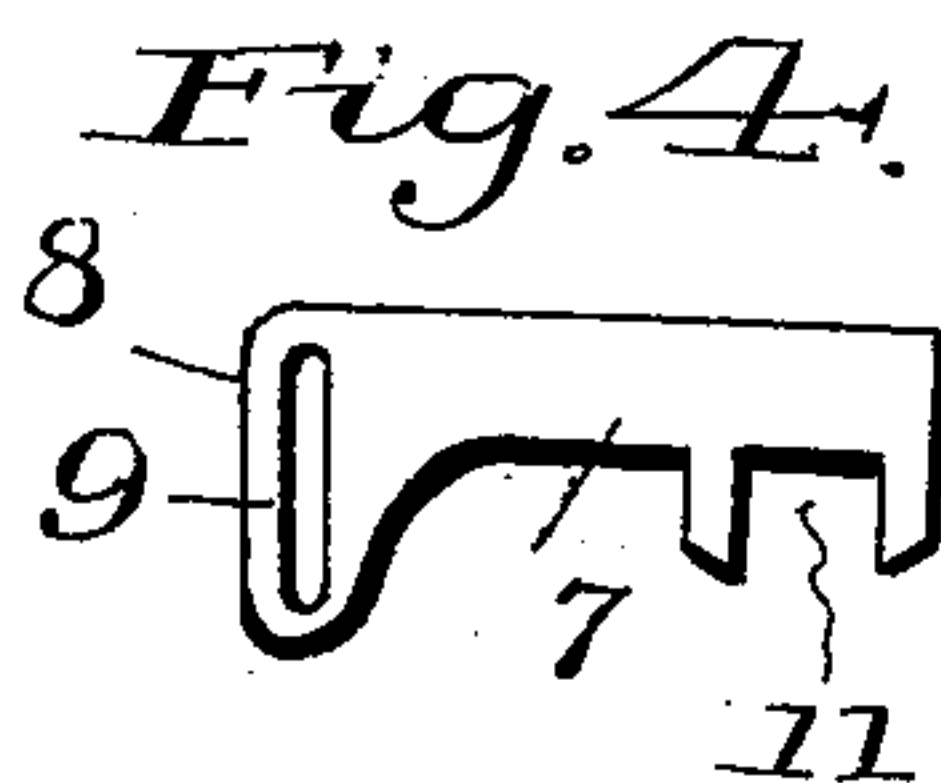
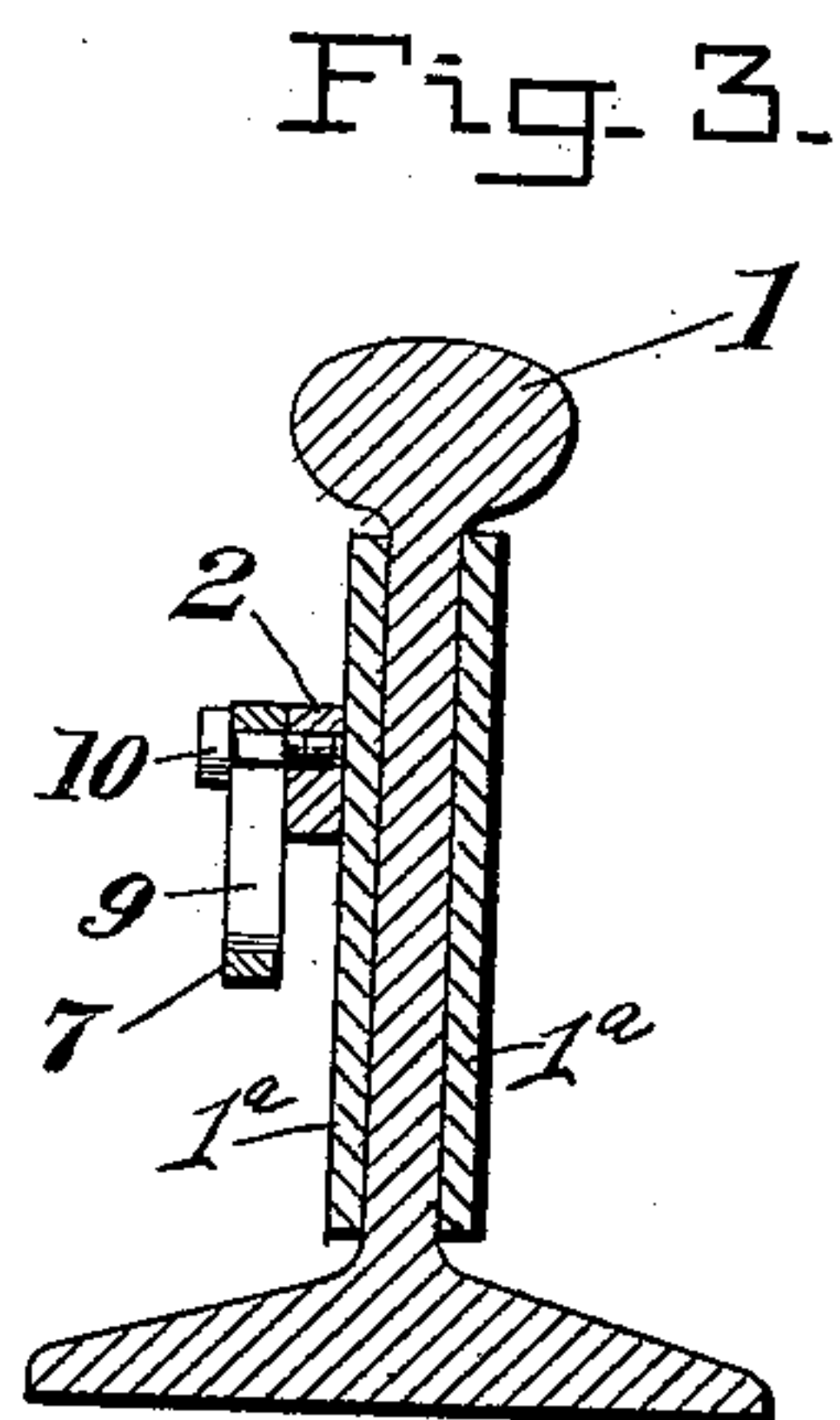
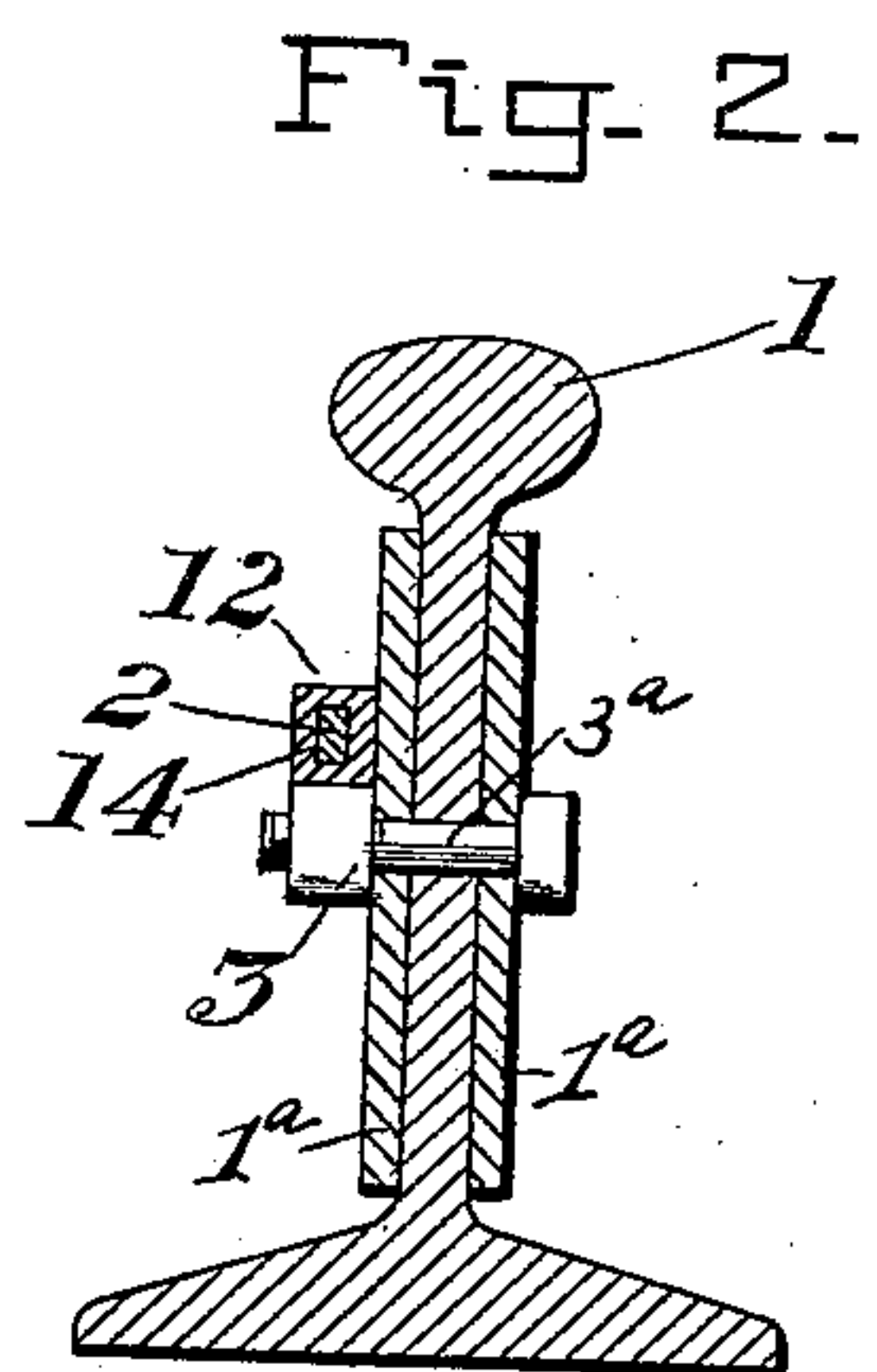
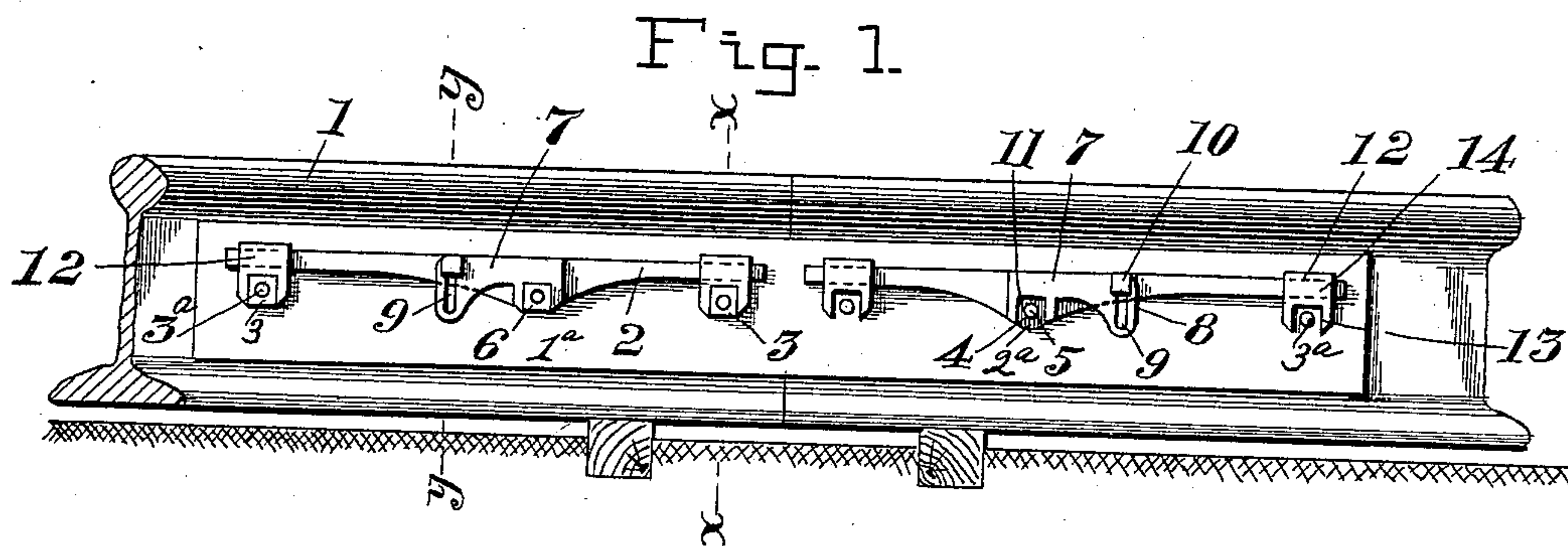


(No Model.)

J. DORAN.
NUT LOCK.

No. 605,861.

Patented June 21, 1898.



Witnesses
Chas. P. Heinemann.
Victor J. Evans

Inventor
James Doran.
By John Wedderburn
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UNITED STATES PATENT OFFICE.

JAMES DORAN, OF PULLMAN, ILLINOIS.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 605,861, dated June 21, 1898.

Application filed May 25, 1897. Serial No. 638,031. (No model.)

To all whom it may concern:

Be it known that I, JAMES DORAN, of Pullman, in the county of Cook and State of Illinois, 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 relates to certain new and useful improvements in nut-locks of that class comprising a locking-bar and a supplemental locking member carried thereby; and it has for its object to provide an improved and simplified construction of this character that can be readily applied and positive and reliable in its action.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

The novelty resides in the peculiar combinations and the construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the claims.

The invention is clearly illustrated in the accompanying drawings, which, with the numerals of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a side elevation showing two of the locking devices in position, the nuts with which one of said devices coöperates being omitted for the sake of clearness. Fig. 2 is a vertical cross-section on the line *xx* of Fig. 1. Fig. 3 is a vertical cross-section on the line *yy* of Fig. 1. Fig. 4 is a detail of the supplemental locking member detached.

Like numerals of reference indicate like parts in the different views.

Referring now to the details of the drawings by reference-numerals, 1 indicates the rails of ordinary construction, and 1^a the fish-plates.

2 is the locking-bar, having the central enlargement 2^a, as seen in Fig. 1 at the right.

3 are nuts on the ends of the bolts 3^a, that pass through the rail and fish-plates, as seen in Fig. 2.

5 is a bolt that passes through an opening 4 in the enlargement of the bar 2, as seen in

Fig. 1 at the right, and receiving a nut 6, as seen at the left in said figure. This bolt passes through the fish-plates and rail.

7 is the supplemental locking member. It is formed at one end with the vertical enlargement 8, having the vertical rectangular slot 9, through which passes the bolt 10, screwed into the bar 2, and having a rectangular shank engaging the side walls of said slot. At the other end this member 7 is formed upon its lower edge with a notch or cut-away portion 11 to engage over the nut 6, as seen at the left of Fig. 1.

12 are retaining-blocks, each having upon its lower edge or face a notch or cut-away portion 13 to engage over the nuts 3, as seen at the left of Fig. 1. Each of these blocks has a passage or aperture 14 therethrough to receive the end of the locking-bar 2, upon which they are slidingly mounted.

With the parts constructed and arranged substantially as above set forth the operation is as follows: One of the blocks 12 is fitted over one of the end nuts 3. The end of the locking-bar 2 is then moved a considerable distance endwise, when the other block 12 is placed over the other end nut 3 and the locking-bar then brought back to its normal position and is secured in position by the bolt 5 and nut 6. The supplemental locking member 7 is then slid downward so that its notch 11 will engage over the nut 6 to lock the same in position, the slot 9 and bolt 10 permitting of such movement.

What is claimed as new is—

1. A nut-lock consisting of a locking-bar, retaining-blocks adjustably mounted thereon one near each end and each having its lower edge cut away to receive a nut, and a supplemental locking member mounted on the locking-bar near its center with a nut-receiving notch upon its under side, substantially as described.

2. A nut-lock consisting of a locking-bar, retaining-blocks adjustably mounted thereon one near each end and each having its lower edge cut away to engage over a nut, and a supplemental locking member mounted on the locking-bar between its ends and formed upon its under face with a notch to engage a nut and having a vertical slot at its other end to

receive a rectangular shank of a bolt held in the locking-bar, substantially as and for the purpose specified.

3. The combination with the rails and fish-plates, of a locking-bar having a central enlargement, retaining-blocks adjustably mounted on the ends of said bar and having notches on their lower edges to engage nuts on the bolts that secure the fish-plates to the rails, the bolt passed through the enlargement of the locking-bar, a nut on said bolt, the supplemental locking member having upon its under face a notch to engage the said bolt

and provided at the other end with a vertical slot, and a bolt held in the locking-bar and having a rectangular shank engaging in said slot, all substantially as and for the purpose specified.

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

JAMES DORAN.

Witnesses:

JAMES V. DORAN,
MICHEAL LENIHAN.