

No. 697,870.

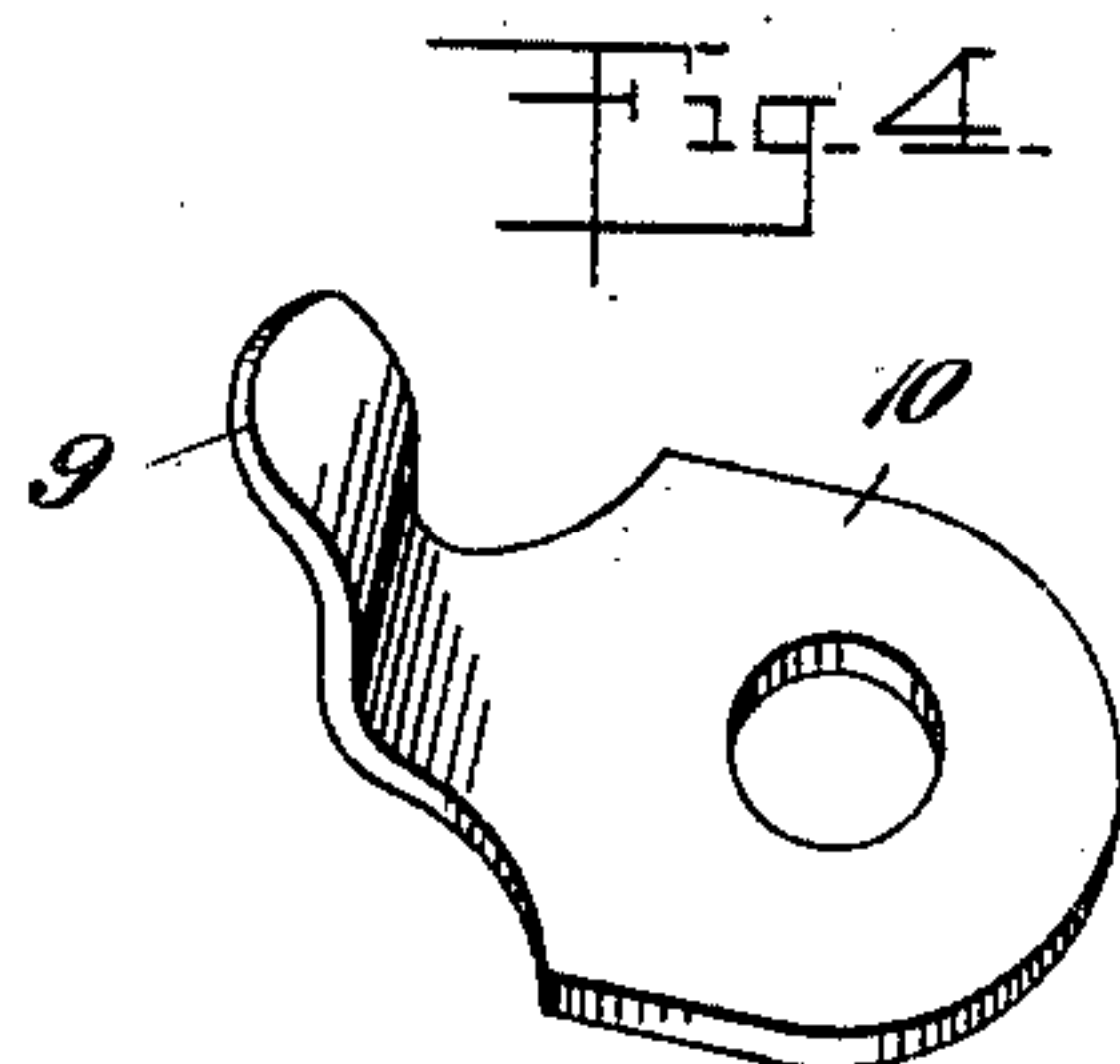
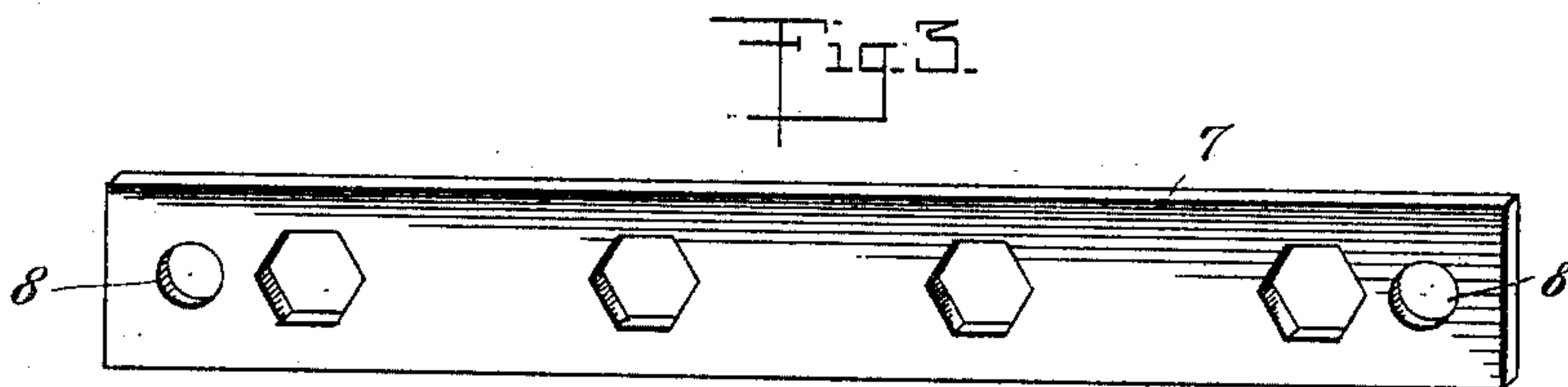
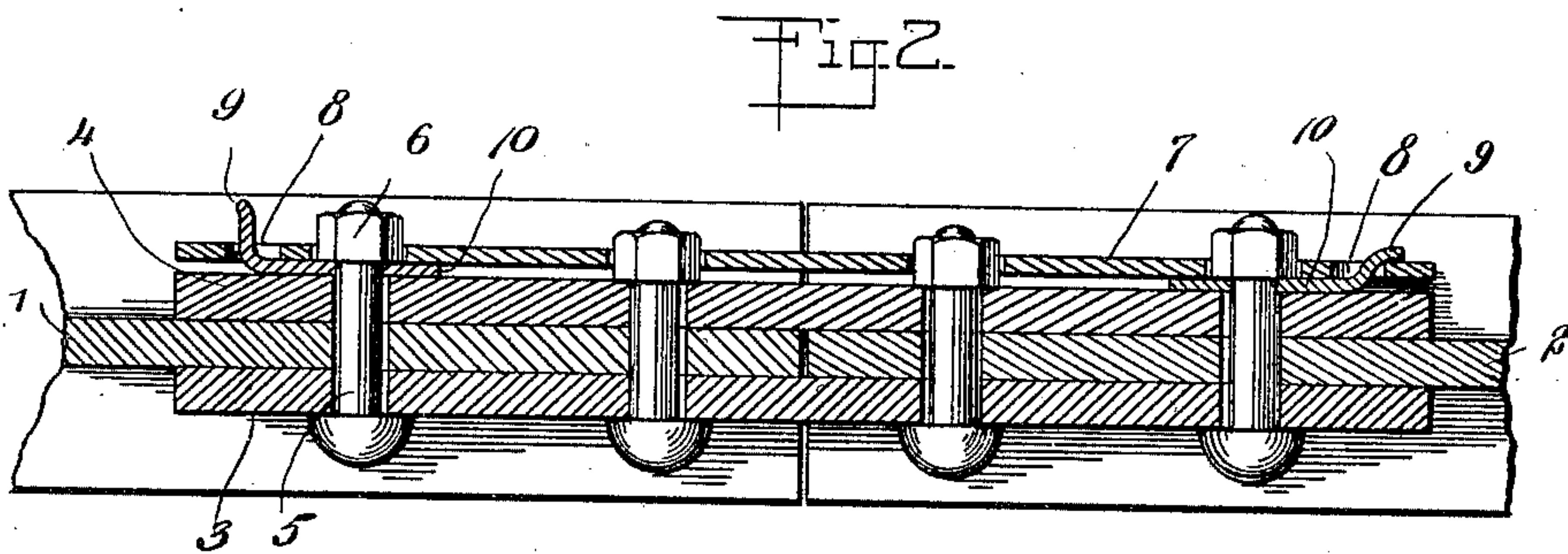
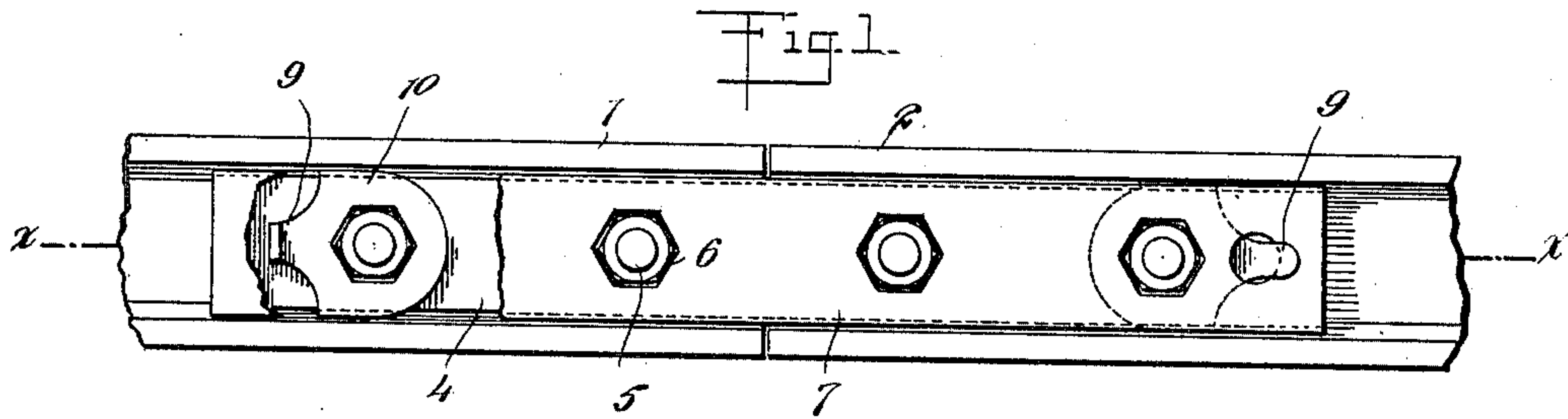
Patented Apr. 15, 1902.

M. McDONALD.

NUT LOCK.

(Application filed June 14, 1901.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

MORRISON McDONALD, OF PICTOU, CANADA, ASSIGNOR OF ONE-HALF TO  
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## NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 697,870, dated April 15, 1902.

Application filed June 14, 1901. Serial No. 64,544. (No model.)

*To all whom it may concern:*

Be it known that I, MORRISON McDONALD, a subject of the King of Great Britain, and a resident of Pictou, in the Province of Nova Scotia and Dominion of Canada, have invented a new and Improved Nut-Lock, of which the following is a full, clear, and exact description.

This invention relates to improvements in nut-locks particularly adapted for use in connection with fish-plate bolts and nuts; and the object of the invention is to provide a nut-lock of simple construction that may be used in connection with the fish-plates in ordinary use or, in other words, making it unnecessary to provide fish-plates deviating in construction from the ordinary form.

I will describe a nut-lock embodying my invention, and then point out the novel features in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of a nut-lock embodying my invention. Fig. 2 is a section on the line *xx* of Fig. 1. Fig. 3 is a perspective view of the nut-locking plate, and Fig. 4 is a perspective view of one of the plate-locking clips employed.

Referring to the drawings, 1 2 designate the meeting ends of railway-rails, which are secured together by the usual fish-plates 3 4 and the bolts 5, on which are the nuts 6. The locking device consists of a plate 7, having openings to receive the nuts, these openings being angular in cross-section or corresponding in shape to the nuts. Near the ends of the plate 7 are openings 8, through which the tang portions 9 of locking-clips 10 are passed. The body portion of the locking-clips is made in plate form and provided with openings for the passage of the end bolts, as clearly illus-

trated in the drawings. As shown at the left-hand end of Fig. 2, the tang portions 9 of the clips are substantially at right angles to the body, so that upon passing the locking-plate over the nuts the said tangs will pass through the openings 8, after which the tangs are to be bent down by a slight tap from a hammer or the like to engage against the outer surface of the locking-plate, as indicated at the right-hand end of Fig. 2.

A nut-locking device embodying my invention will hold the nuts securely, and as the plate is held rigid by the clips there will be no danger of its becoming loosened by the usual jar imparted by trains passing over the rails, and it will be noted that the plates of the clips are of sufficient width to bear against both the head and base flange of the rail, thus preventing any turning of the clips which might deflect the tangs when in position to enter the perforations of the locking-plate.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A nut-lock, comprising a plate having openings for receiving nuts of bolts for securing fish-plates to rails, and also having perforations near the ends, and locking-clips of plate-like construction arranged between the locking-plate and the fish-plate and through which securing-bolts pass, the said clips being of sufficient width to engage their edges against the head and base flange of the rail, and tangs on said clips for passing through the perforations at the ends of the locking-plate, substantially as specified.

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

MORRISON McDONALD.

Witnesses:

FRANK P. MURRAY,  
JOHN GERMAIN.