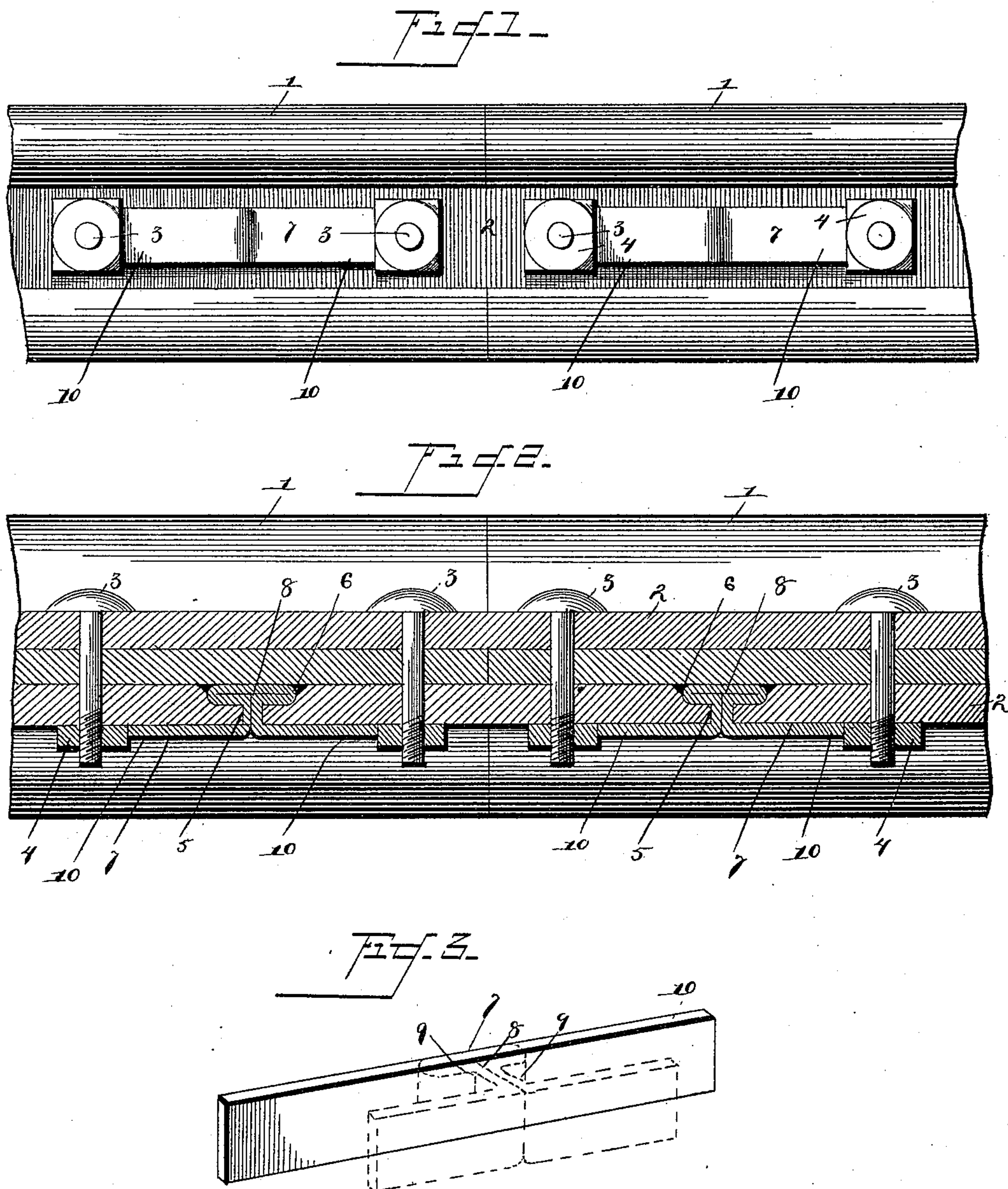


(No Model.)

W. T. COZART.
NUT LOCK.

No. 441,749.

Patented Dec. 2, 1890.



Witnesses:

Geo. Frick.

W. S. Duwall.

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UNITED STATES PATENT OFFICE.

WILLIAM T. COZART, OF SHELBYVILLE, ILLINOIS.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 441,749, dated December 2, 1890.

Application filed April 18, 1890. Serial No. 348,448. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. COZART, a citizen of the United States, residing at Shelbyville, in the county of Shelby and State of Illinois, have invented a new and useful Nut-
Lock, of which the following is a specification.

This invention has relation to nut-locks; and among the objects of the invention are to
provide a very simple and inexpensive lock adapted especially for joints of railroads and designed to secure the nuts in position and against any retrograde movements upon their bolts; also, to permit of the removal of the
nuts from the bolts when such is desired without any great amount of labor upon the part of the workman or in any way destroying the efficiency of the lock for a subsequent use.

With the above general objects in view the invention consists in certain features of construction hereinafter specified, and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a front elevation; Fig. 2, a horizontal section through the lock; Fig. 3, a detail in perspective of the lock before bending, the position of the locking terminals after bending being indicated by dotted lines.

Like numerals indicate like parts in all the figures of the drawings.

1 designates the opposite rail-sections, at the sides of which are located the fish-plates 2, through which and the web of the rail-sections are passed a series of bolts 3, provided at their threaded ends with nuts 4 for binding the fish-plates snugly against the webs of the rails. Between the pairs of nuts the fish-plate at the outer side of the rails is provided with a slot 5, the rear end of which adjacent to the web of the rail merges into a countersunk recess 6.

7 represents the locking-key or lock, and the same is formed of steel or wrought-iron or any suitable metal and from a blank of sufficient length and preferably half-round in cross-section. At each side of its center the blank is bent, as at 8, and a short distance beyond said points reversely bent, as at 9, thus forming a T-shaped lock, the terminals of which lie close together, and beyond the

key portion are flattened and terminate in squared ends 10, the thickness of which approximates that of an ordinary nut.

In using the lock the terminals are inserted through the reverse sides of the slots or openings in the fish-plates, so that the T-head of the lock rests within the countersunk recess of the slot. The nuts are now screwed down upon the bolts and a chisel or other wedge-shaped tool introduced between the terminals of the lock for the purpose of separating them, so as to be disposed in opposite directions, and by a few taps of a hammer said terminals are bent so as to lie against the outer face of the fish-plate, the square end of each terminal abutting against the flat side of a nut and preventing any retrograde movement of the nut. After being in position it will be observed that by employing a chisel or other suitable dividing-tool the terminals may be bent outward from the fish-plate sufficiently far to permit of a removal of the nuts and a consequent disconnection of the joint for the purpose of replacing rails, &c.

It will be observed that my invention is extremely simple and inexpensive and most positive in its action, the T-head preventing any withdrawal of the lock, and the terminals lying under the head of the rail are prevented from being struck and accidentally outwardly bent.

Having described my invention, what I claim is—

1. The combination, with the rail-sections, the fish-plates, the bolts passing through the fish-plates and provided with nuts, and said fish-plates being provided with an opening arranged midway each pair of nuts, of the malleable lock comprising a T-head lying in the rear of the fish-plate and the opposite terminals inserted through the opening of said plate and oppositely spread to abut against a nut, substantially as specified.

2. The combination, with the rails and the fish-plate, the latter provided with slots terminating at their ends in countersunk recesses, of bolts arranged at each side of each of the slots, and the herein-described lock, formed of malleable metal bent, as at 8 and 9, to form

terminals, and an intermediate T-head, said
terminals being flattened and passed through
the slot, and the head resting in the counter-
sunk recess, and the ends of the terminals
5 oppositely disposed and abutting against the
nuts, substantially as specified.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in
presence of two witnesses.

WILLIAM T. COZART.

Witnesses:

JOHN D. MILLER,

J. N. BULLARD.