

(No Model.)

D. A. MITCHELL.
NUT LOCK.

No. 497,589.

Patented May 16, 1893.

Fig. 1.

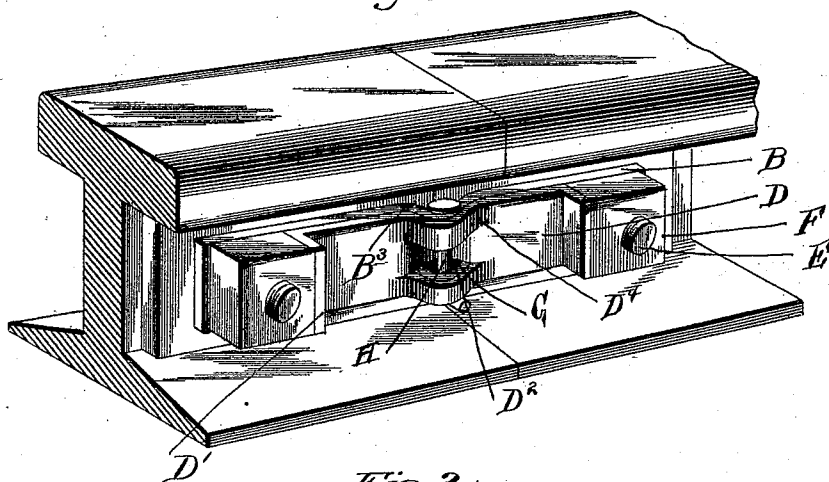


Fig. 2.

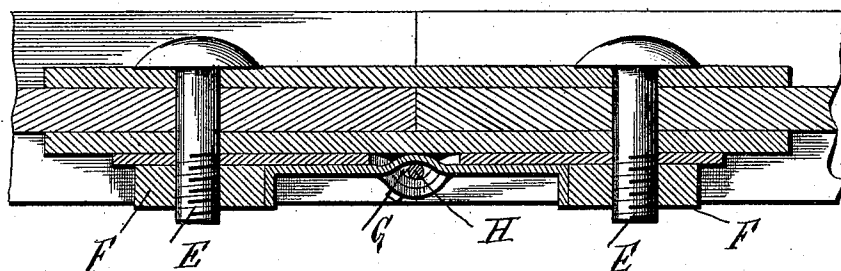
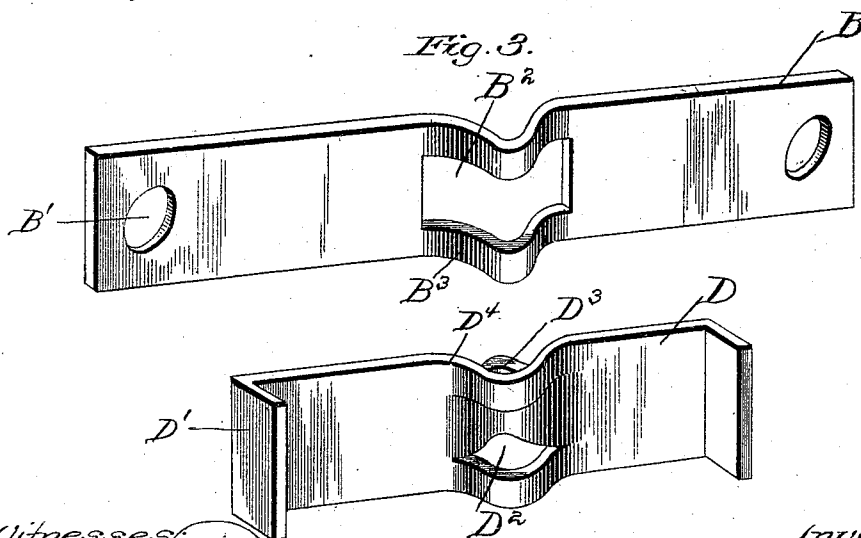


Fig. 3.



Witnesses:

Wm C. Fasshull.
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Inventor:

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By Am. Verroore
Att'y.

UNITED STATES PATENT OFFICE.

DAVID ALFRED MITCHELL, OF NASHVILLE, TENNESSEE.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 497,589, dated May 16, 1893.

Application filed August 16, 1892. Serial No. 443,209. (No model.)

To all whom it may concern:

Be it known that I, DAVID ALFRED MITCHELL, a citizen of London, Ontario, Canada, and a subject of the Queen of England, residing at Nashville, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Nut-Locks; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in nut locks, and relates particularly to a device for fastening the nuts used upon railroad rails and may also be used for any other purpose where applicable.

The object of the invention is the provision of a simple, durable and inexpensive device which will effectually lock the nuts on the bolts and prevent them from turning under the strain to which they are subjected and which can be removed or detached when desired to remove the nuts in order that neither the nuts nor the other parts of the device will be injured.

To attain the desired object the invention consists of a device embodying novel features of construction, combination and arrangement of parts for service whereby a practical and economical nut lock is provided, as will appear from the following.

In order that the details of construction and the advantages gained by my device will be readily understood I have illustrated an embodiment of my improvements in the accompanying drawings, in which—

Figure 1 represents a perspective view of my novel nut lock applied for use. Fig. 2 represents a horizontal sectional view thereof, and Fig. 3 represents a detail perspective view of the parts of the device detached.

Referring by letter to the drawings, A designates a rail of the well known construction in connection with which my nut lock is employed and which consists broadly speaking of the base plate B and the upper or locking plate D. The base plate is provided near the ends with bolt openings B' to receive the bolts E on which the nuts F are placed, and about

the center of the plate is an elongated opening B² on each side of which the material is bent up at B³. The upper or locking plate D at the ends is formed with the locking projections D' which engage the sides of the nut to prevent their turning, and is formed with the slits of cuts D², and the material is bent down to form the plate or tongue D³ which passes through the opening B² and rests on a line with the back face of the base plate and the material on each side of the tongue is bent up to form the bends D⁴ which lie close or snugly against the bends B³ of the base plate, as clearly shown, and this construction and arrangement locks the plates together and forms the passage or opening G between the tongue and bends into which the pin H passes for retaining the plates together as is evident. From this construction it will be seen that the base plate lies against the fish plate and that the two plates are securely retained together and that the tongue on the locking or upper plate is in line with the back of the base plate and the projections of the locking plate serve to firmly lock or fasten the nuts on the bolts. It will also be seen that the parts of the device can be detached and the nuts removed if desired but that they cannot possibly become detached by reason of the hard usage. It will also be seen that the device is of simple and durable construction and that a road may be supplied with the device at a moderate cost and thus all matters considered the invention is practical and economical.

I am aware that it is old to make a nut lock of a base plate with bolt openings and a bend or eye, a nut lock plate having bends or eyes and a pin passing through said eyes and such broad construction I do not claim.

I claim as my invention—

The nut lock herein shown and described, consisting of the base plate having the bolt openings near each end, the intermediate elongated opening or slot and the bends or loops extending out on each side of the slot, the locking plate having the upward locking extension at each end, having the slits and the inward extending bend fitting in the slot of the lower or base plate and the outward extending bends, the inward bend of the locking plate entering and fitting closely in the

slot of the base plate and the outer bends lying
adjacent to the bends of the base plate and
together forming a round passage between
the plates, and a round headed pin passing
5 through the passage to lock the plates and
having the lower end bent to prevent detach-
ment of said pin, all as shown.

In testimony whereof I affix my signature in
presence of two witnesses.

DAVID ALFRED MITCHELL.

Witnesses:

SEWALL OSGOOD BARNES,
W. V. GRIFFIN.