(Model.)

L. LONG.

NUT LOCK.

No. 245,733. Patented Aug. 16, 1881.

Fig. 1.

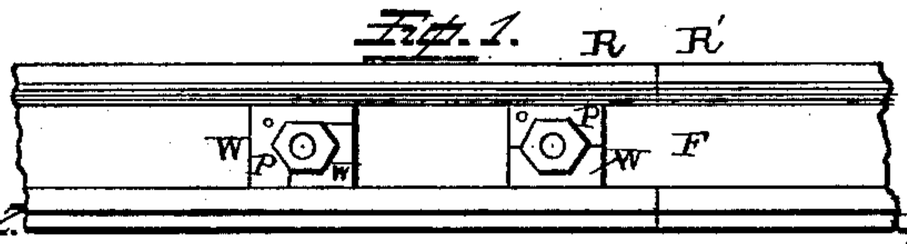


Fig. 2.

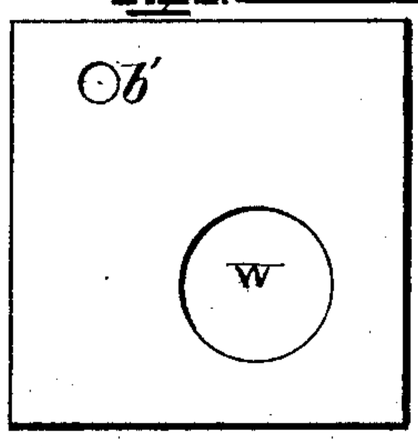


Fig. 3.

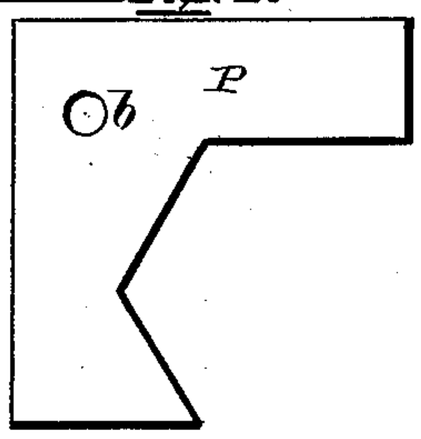


Fig. 10.

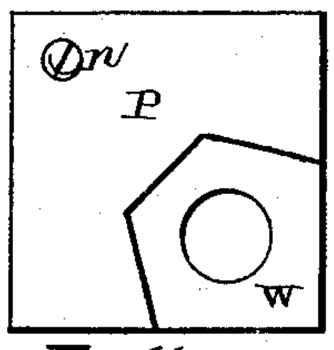


Fig. 11.

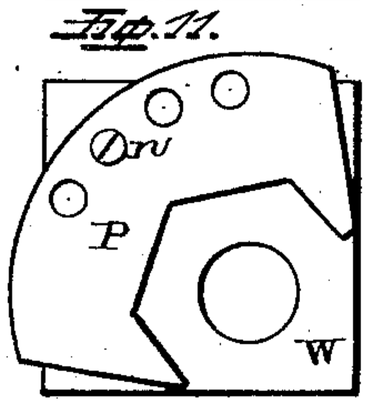


Fig. 4.

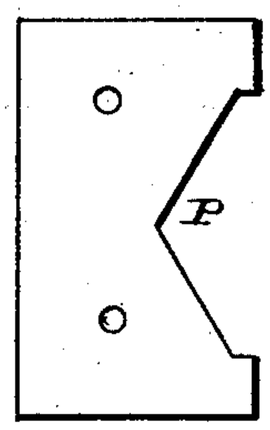


Fig. 5.

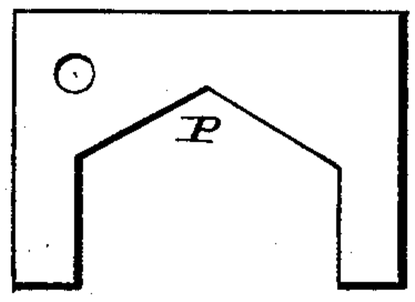


Fig. 6.

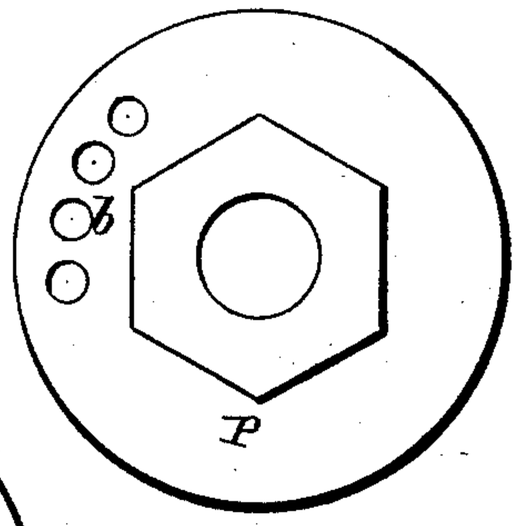


Fig. 12.

Fig. 7.

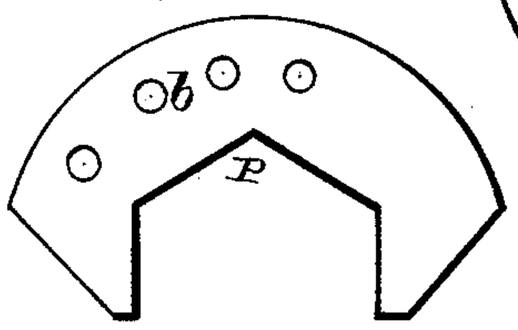


Fig. 8.

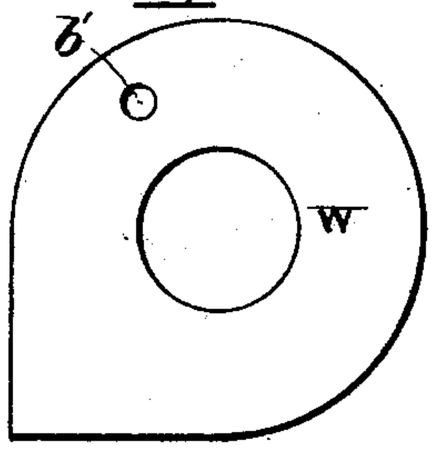
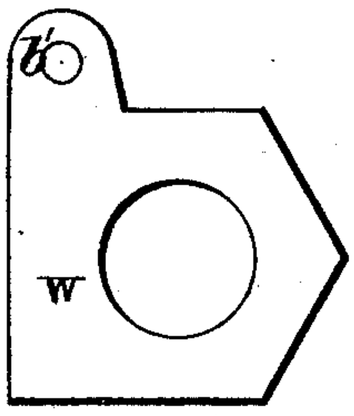


Fig. 9.



Witnesses.
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A. C. Kirkadden.

Inventor.
Leander Long
per
F. A. Lehmann,
Atty.

UNITED STATES PATENT OFFICE.

LEANDER LONG, OF NEW CASTLE, PENNSYLVANIA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 245,733, dated August 16, 1881.

Application filed May 23, 1881. (Model.)

To all whom it may concern:

Be it known that I, LEANDER LONG, a citizen of the United States, residing at New Castle, in the county of Lawrence and State of Pennsylvania, 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in nut-locks for nuts on bolts that secure the fish-bars to rails on railroads; and it consists in placing lock-plates over the nuts and securing the plates to fixed washers by means of split rivets, as will be fully described hereinafter.

The accompanying drawings represent my invention.

Figure 1 is a side elevation of my invention complete. Figs. 2, 3, 4, 5, 6, 7, 8, 9 show different forms of lock-plates and washers. Figs. 10 and 11 are side elevations of the lock complete. Fig. 12 is a perspective of the split bolt alone.

R R′ represent two adjoining ends of railroad-rails of the usual form, to the web of which is secured a fish-bar, F.

The fish-bar is held in place by bolts and nuts of any suitable form, and on the bolts, between the nuts and the fish-bar, are washers W, that occupy a space between the crown and foot of the rails, or, when the fish-bar extends over the foot, to the angle in the fish-bar by which it is adapted to the foot.

The hole in the washer for the bolt to pass through may or may not be in the center, according to the form of the lock-plate that is to lock the nut; but the lower edge of the washer must rest firmly upon the projecting foot of the rail or fish-bar, and of whatever form the washer in other respects may be the part bearing upon the foot of the rail should be such as to prevent the washer from turning or changing its position.

The nuts are locked or prevented from becoming loosened by the jarring rails by a lock-plate, P, consisting of a metallic plate, out of which a piece is cut in the form and size, wholly or in part, of the nut upon which it is to be placed.

In the lock-plate are one or more holes, *b*, smaller than the bolt-hole in the washer, distributed in a manner that when the plate is adjusted upon the nut one of the holes coincides with the hole *b′* in the washer, in whatever position the nut may be, and through these holes in the washer and the lock-plate a split rivet, *n*, is inserted from under the washer, the ends of which rivet project in front of the lock-plate.

To secure the lock-plate in its position on the nut, the split ends of the rivet are pried apart by means of a suitable tool, and when it is desired to remove the lock-plate the ends of the rivet are again bent toward each other to allow the rivet to be withdrawn.

The rivets may be split from end to end or only from the end to the head, either of which answers the purpose, and the lock-plates may be made of different forms to inclose two or more sides of the nuts, or be circular to embrace all sides. I therefore do not confine myself to any particular form.

Having thus described my invention, I claim—

In a nut-lock, the combination of a fixed washer, W, a locking-plate, P, which is applied to the outer side of the washer and adapted to catch over or against the side of the nut, and a split rivet, *n*, the plate being made adjustable, substantially as shown and described.

LEANDER LONG.

Witnesses:

LOUIS MOESERY,

T. F. LEHMANN.