

(No Model.)

A. A. DICKIE.
NUT LOCK.

No. 440,769.

Patented Nov. 18, 1890.

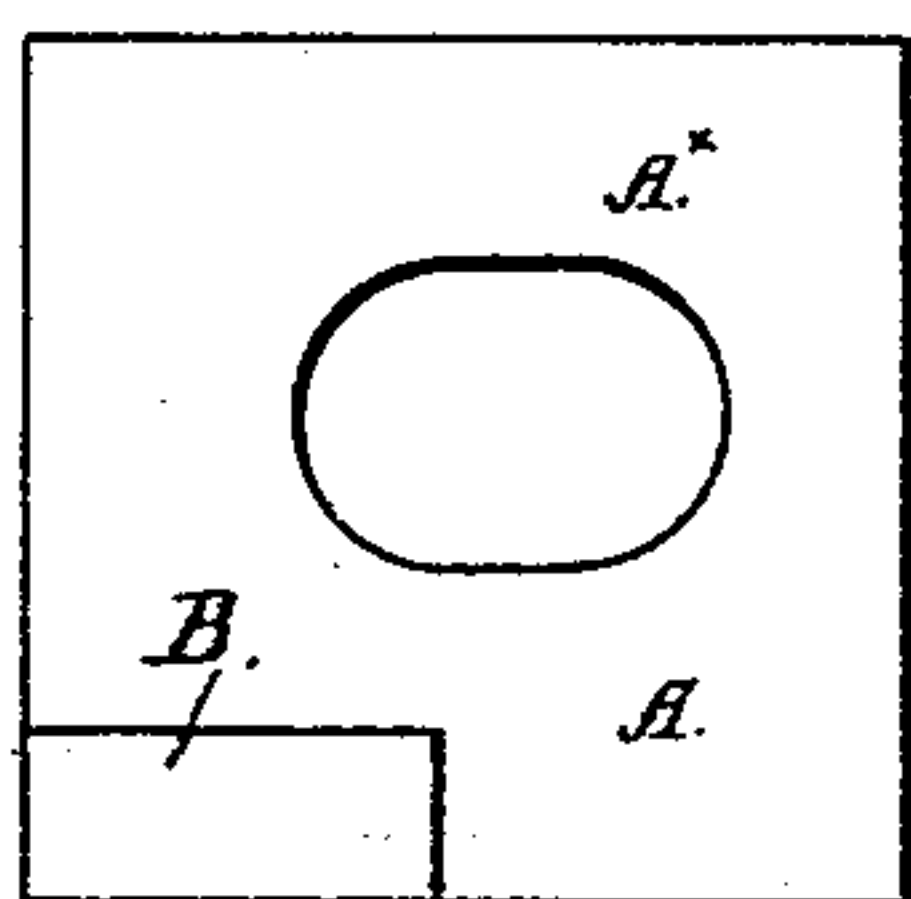


Fig. 1.

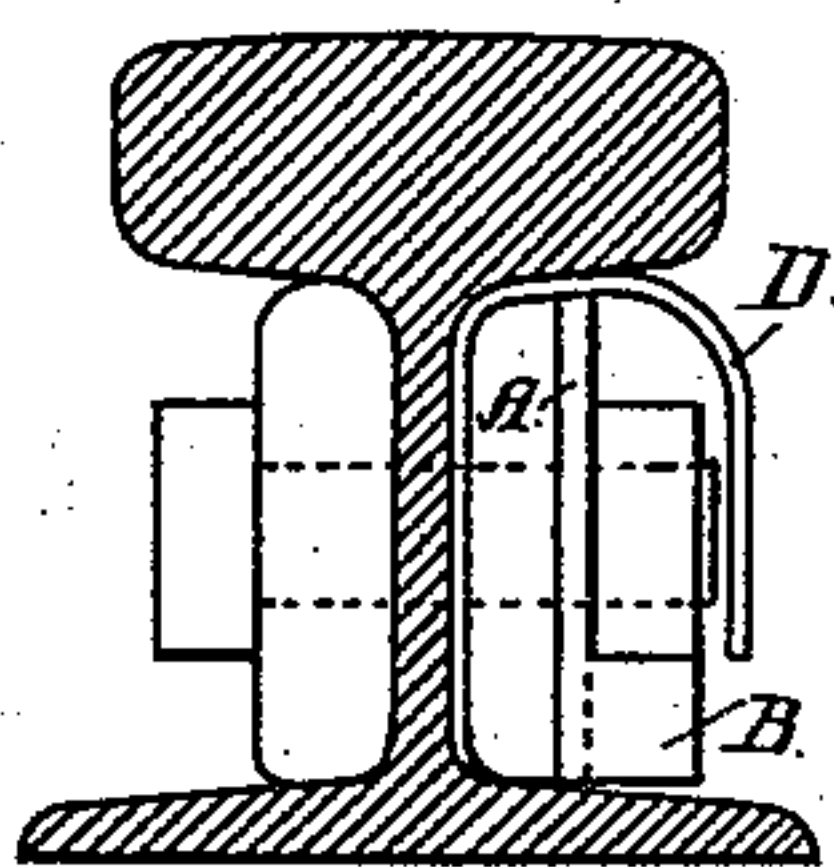


Fig. 2.

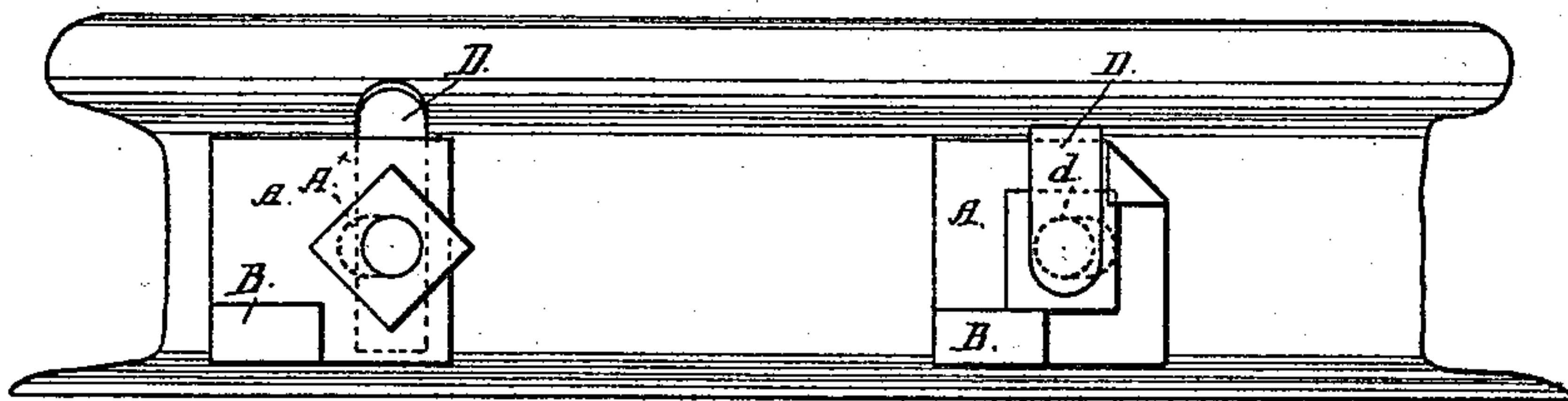


Fig. 3.

Fig. 4.

Witnesses:

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UNITED STATES PATENT OFFICE.

ALBERT A. DICKIE, OF SUISUN, CALIFORNIA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 440,769, dated November 18, 1890.

Application filed May 31, 1890. Serial No. 353,841. (No model.)

To all whom it may concern:

Be it known that I, ALBERT A. DICKIE, a citizen of the United States, residing in Suisun, county of Solano, and State of California, have invented certain new and useful Improvements in Nut-Locks, of which the following is a specification.

My invention relates to devices for securing a nut upon its bolt. It is especially designed for use on the fish-plates of railroad-rails to prevent the nuts from working loose and dropping off; and to such end and purpose it consists in the specific construction of parts and combination of parts, as hereinafter described, producing an efficient and simple nut-lock at small expense.

Referring to the accompanying drawings, that form a part of this specification, Figure 1 represents a top view or plan of the device. Fig. 2 is a side view, and Figs. 3 and 4 illustrate its application to the bolt and nut.

A indicates a rectangular metal plate formed with an elongated hole A^x through the middle, with the longer diameter or axis disposed horizontally, and B is a lug or standing projection at the front face of this plate and at one of the lower corners. The plate should be made of sheet metal or of such pliable material that the other corners or edges, and particularly the upper corners, can be bent up at an angle with the face of the plate. As thus formed, the lock is applied by slipping it on the bolt and setting it over to one side of the center, as indicated by the dotted lines, Fig. 3, while the nut is being screwed down, and then as the nut is tightened up the plate is driven toward the opposite side or brought into position on the center under the nut by tapping it with a hammer. By this movement the locking-lug B is brought beneath the bottom of the nut, and, finally, the upper edge or corner of the plate is bent outward and set down against the nut. The plate is made of suitable size to bring the

top and bottom edges, or either the top or bottom edge, against the projecting parts of the rail—that is, the flange and the head—so that the plate cannot turn around the bolt. As an addition to this plate, I use a piece D as a guard or protector to prevent grease and oil droppings from getting on the threaded part of the bolt, this part being made, as illustrated in Fig. 4, in the form of a tongue or narrow strip somewhat tapering, with a hole d cut through it near the wider end, of suitable size to take over the bolt. This piece is set on the bolt behind the locking-plate with the long end portion standing upward, and after the nut is set down and the plate fixed in place this standing tongue is bent outward and downward to cover the bolt and nut. By protecting the threads of the bolt and the nut from oil there is less tendency to work loose, and consequently the nut-lock has less strain thrown upon it.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with a bolt and nut, of a plate set between the nut and one of the parts to be united, said plate having an elongated opening through which the bolt passes, and provided with a rectangular projection or lug on a lower corner to fit under the lower edge of the nut, and a bent corner at the diagonally-opposite corner, as and for the purpose set forth.

2. The combination, with a bolt and a nut, of the guard-piece D, placed back of the nut and bent over the bolt and nut in the manner and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

ALBERT A. DICKIE. [L. S.]

Witnesses:

ABNER E. CHARLES,
DANIEL MCCREARY.