(No Model.)

W. M. IRVINE & J. J. WADDILL.

NUT LOCK.

No. 277,735. Patented May 15, 1883.

Fig. 1.

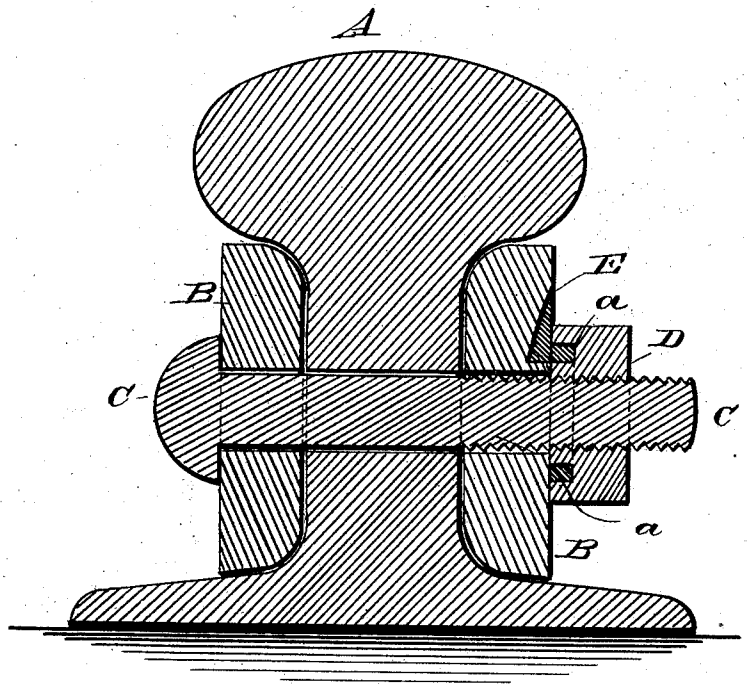
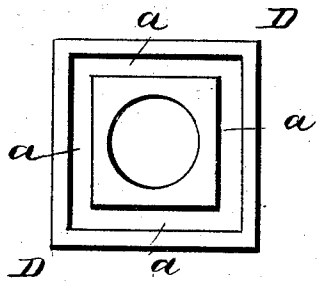


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM M. IRVINE AND JOHN J. WADDILL, OF MONTGOMERY, ALABAMA.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 277,735, dated May 15, 1883.

Application filed April 7, 1883. (No model.)

To all whom it may concern:

Be it known that we, W. M. IRVINE and J. J. WADDILL, of Montgomery, in the county of Montgomery and State of Alabama, have invented certain new and useful Improvements in Nut-Locks; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 is a transverse section taken through a railroad-rail and fish-plates, showing our improved nut-lock applied. Fig. 2 shows the recess bearing side of the nut.

This invention relates to means for locking nuts on bolts applied to railroad-rails, bridges, and other objects; and it consists in a fusible-metal lock, as will be fully understood from the following description, when taken in connection with the annexed drawings.

A designates a railroad-rail, and B B fish-plates fitted into the sides of the same.

C is a screw-threaded bolt passed through the rail and fish-plates, having a nut, B, on it. This nut is recessed, as indicated at *a*, which recess may extend entirely or partially around the eye of the nut.

E designates a pouring-hole in one of the fish-plates, arranged so that when the nut is screwed home it communicates with the recess therein. Lead or other fusible metal can be poured into said recess, so as to form a key, which will prevent the nut from starting under all ordinary circumstances.

We are aware that, broadly considered, it is not new to hold nuts on bolts by means of fusible metal. Therefore we do not claim such as our invention.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination of a recessed metal nut and a fish-plate, or its equivalent, having a pouring hole or channel for the admission of fusible metal, all constructed and adapted to operate substantially in the manner and for the purposes described.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

WILLIAM M. IRVINE.
JNO. J. WADDILL.

Witnesses:
W. H. GARSIDE,
S. L. ALEXANDER.