J. R. JONES & R. RUSS.

Nut-Lock.

No. 222,281. Patented Dec. 2, 1879.

Fig. 1

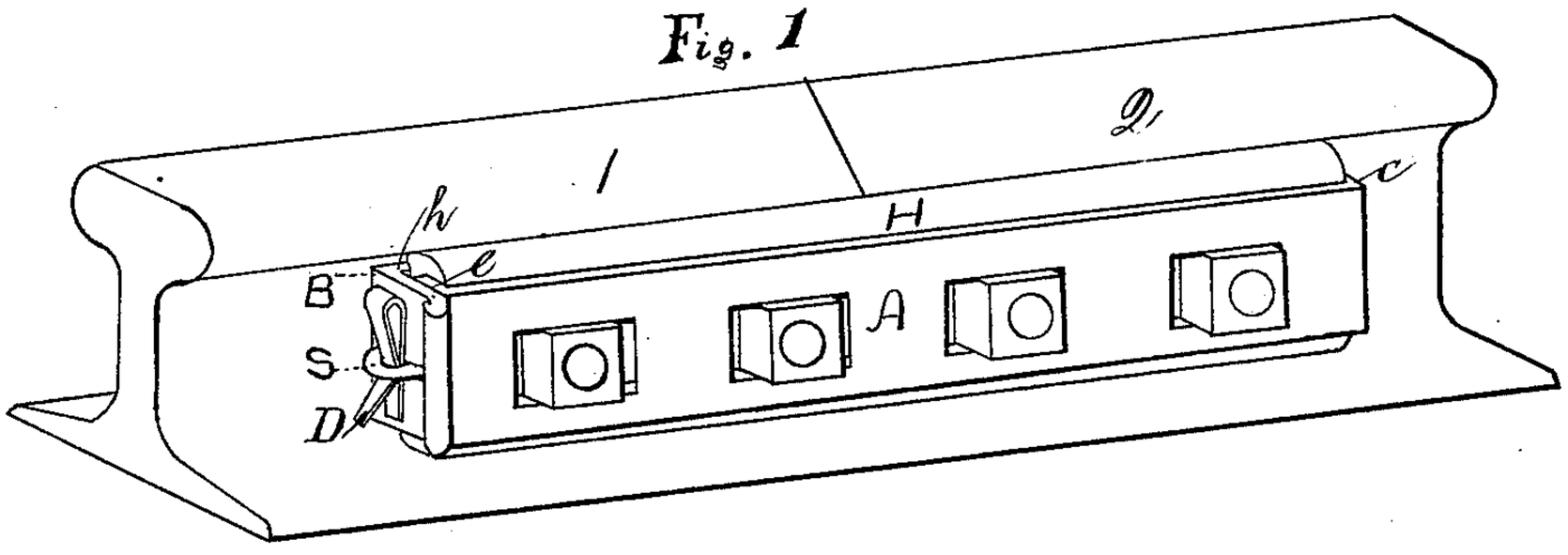


Fig. 2

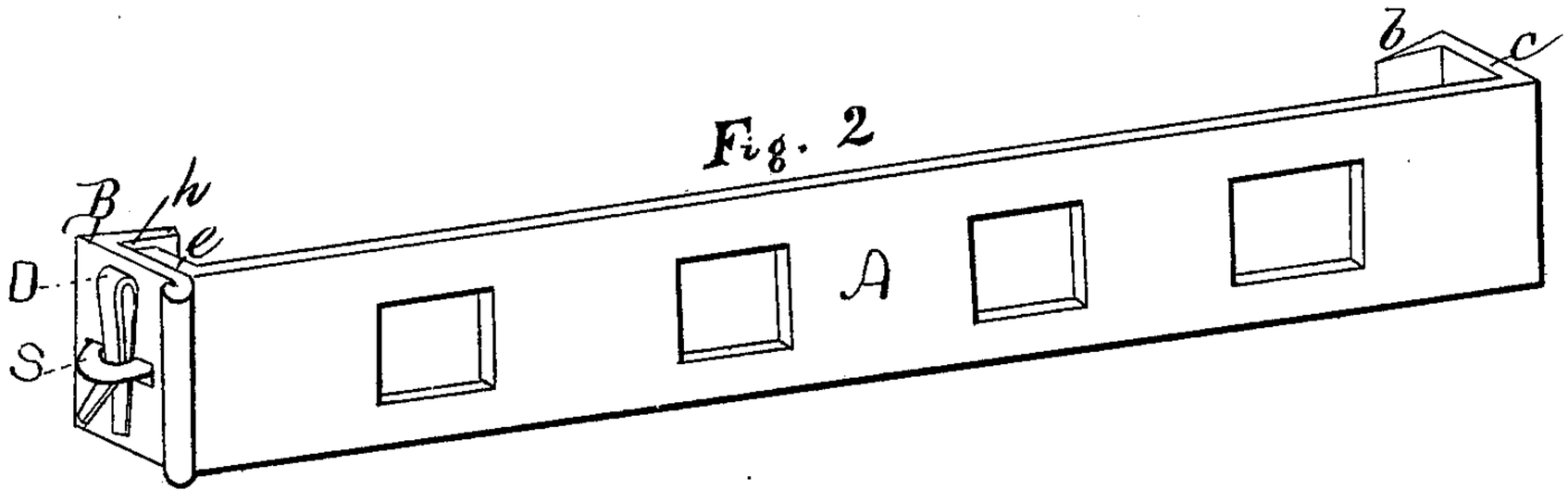


Fig. 5

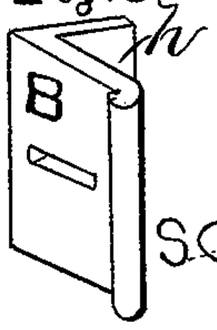


Fig. 4

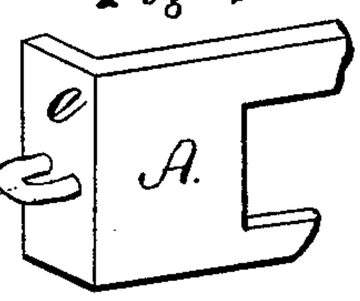


Fig. 6

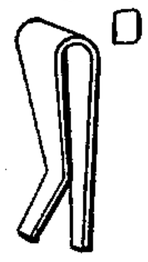
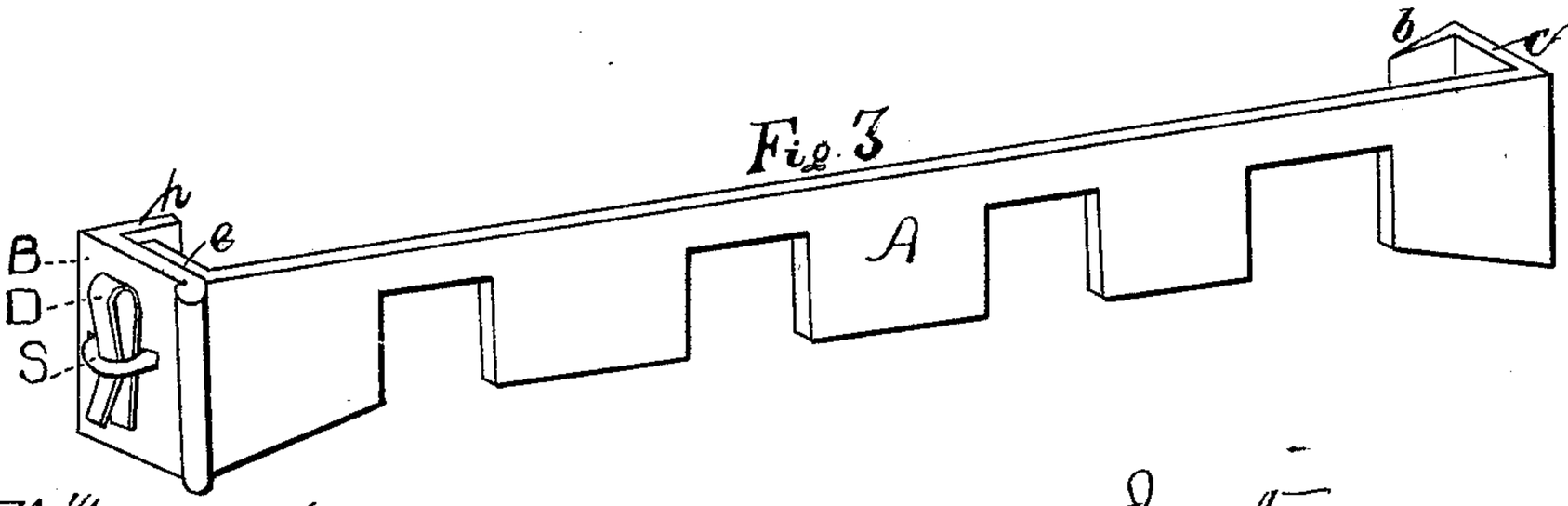


Fig. 3



Witnesses:
S. Hoisington
W. D. Hooker.

Inventors
Robert Russ
J. R. Jones

UNITED STATES PATENT OFFICE.

JOSIAH R. JONES AND ROBERT RUSS, OF NORTH LEWISBURG, OHIO, ASSIGNORS OF ONE-THIRD OF THEIR RIGHT TO FREDERICK HOISINGTON; SAID RUSS ASSIGNOR OF HIS REMAINING RIGHT TO A. L. WILLIAMS.

IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. **222,281**, dated December 2, 1879; application filed August 11, 1879.

To all whom it may concern:

Be it known that we, JOSIAH R. JONES and ROBERT RUSS, of North Lewisburg, in the county of Champaign and the State of Ohio, have invented a certain new and useful Improvement in Railroad Nut-Locks; and we do hereby declare the following to be a full, clear, and correct description of the same, reference being had to the annexed drawings, forming a part of this specification.

Figure 1 of the drawings is a perspective view of the splice of two rails with our nut-lock means attached. Fig. 2 is a perspective view of the nut-lock attachment. Fig. 3 is a perspective view of a modification of the same. Figs. 4 and 5 are detail perspective views of the end fastening device. Fig. 6 is a view of the locking-key.

This invention relates to that class of nut-locks having notches or openings to straddle the nuts of the bolts.

The object of our invention is to furnish a nut-locking means by which the nuts of the fastening-bolts used in the splice of railroad-rails may be permanently held in position without the possibility of working off.

Our improvement consists in a longitudinal plate notched or formed with square openings to straddle or pass over the nuts of the fastening-bolts, and provided at one end with a bent portion terminating in a wedge end running parallel a short distance with the bar, so as to grasp one end of the fish-bar, and capable of being driven under the same, the other end of the longitudinal bar being bent at right angles, or nearly so, and having a staple or other similar device, in combination with a detachable angular piece provided with a slot adapted to pass over the staple of the longitudinal bar, and being connected thereto by means of a key, as will be hereinafter more fully set forth.

In the annexed drawings, the Figs. 1 and 2 represent the adjacent ends of two T-shaped rails suitably spliced by means of the fish-plate or splice-bar H.

The letter A represents the longitudinal plate, which is of sufficient length to cover and embrace the ends of the fish-bar. This longitudinal plate is formed with a series of notches or square openings to fit the nuts confining the rail-sections together, substantially as shown. One end of this bar or plate A is bent inwardly about the thickness of the ordinary fish-plates, terminating in a toe or wedge, *b*, so as to be parallel with, or nearly so, the body of the plate. This wedge *b* is designed to be driven easily under the fish or splice bar. The other end is bent inwardly at right angles a little less than the thickness of the fish-bar, and is formed with a staple, S, or other similar device.

The longitudinal bar A is properly adjusted over the nuts of the confining-bolts, and the square openings or notches, being elongated in the direction of the length of the bar, permit the bent portion *c* and the toe or wedge *b* of the bar to pass over and be driven under the fish-bar to secure a firm lock at this end. The angular piece B is now adjusted over the angular end *e*, the slot of the piece fitting over the staple of the longitudinal bar. The flange *h* of the piece B is driven under the fish-bar to secure a hold, and when home the key D is passed through the staple S, which completes the lock.

What we claim, and desire to secure by Letters Patent, is—

In combination with the longitudinal bar A, formed with notches or openings, provided at one end with the bent portions *c b*, and provided at the other end with the angular portion *e* and staple S, the detachable angular piece B and a fastening device, substantially as described, and for the purpose set forth.

J. R. JONES.
ROBERT RUSS.

Witnesses:
F. HOISINGTON,
A. D. PALMER.