

Esau D. Taylor.

101541

PATENTED APR 5 1870
Lock Nut Plate.

Fig. 1.

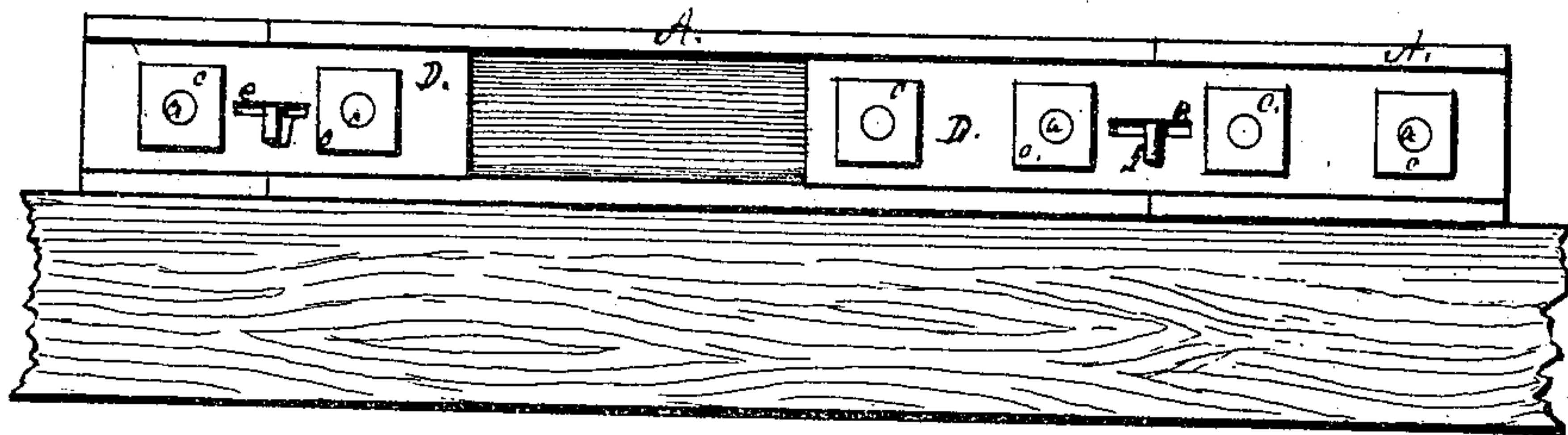


Fig. 2.

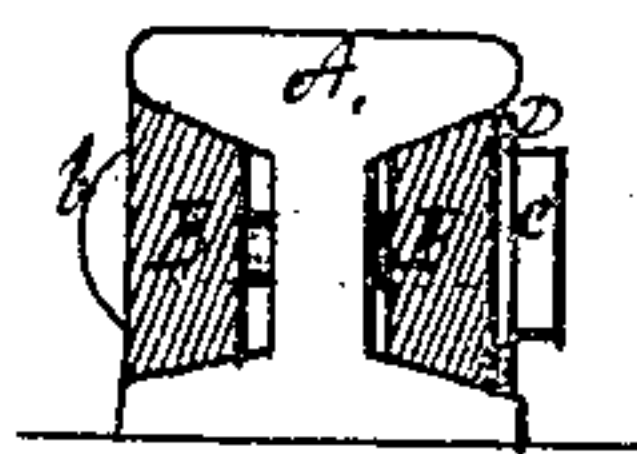


Fig. 3.

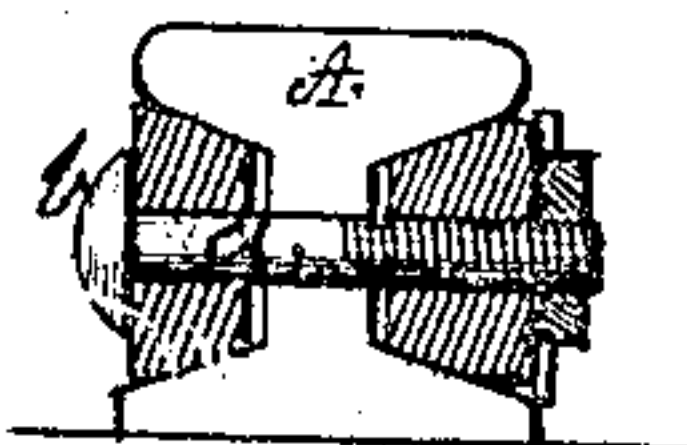


Fig. 4.

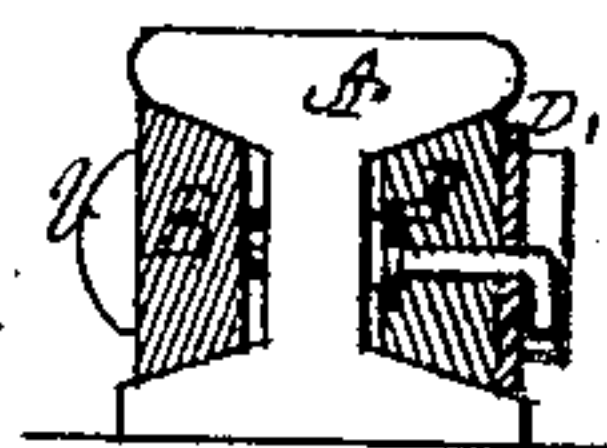
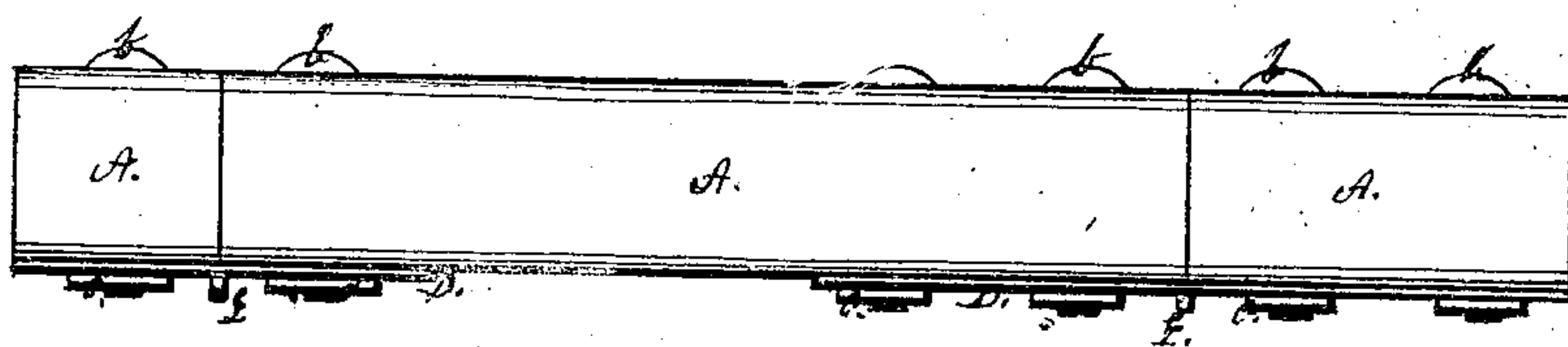


Fig. 5.



Fig. 6.



Witnesses.

Chas. H. Poole

Cha. L. Coombs

Inventor.

Esau D. Taylor

By J. B. Woodruff & Son

Attorneys.

United States Patent Office.

ESAU D. TAYLOR, OF HORNELLSVILLE, NEW YORK, ASSIGNOR TO HIMSELF AND DAVID COHN, OF SAME PLACE.

Letters Patent No. 101,541, dated April 5, 1870.

IMPROVEMENT IN NUT-LOCK PLATE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ESAU D. TAYLOR, of Hornellsville, in the county of Steuben and State of New York, have invented a certain new and useful Improvement in Lock-Nut Plates for Fish-Joints for Rails, and the manner of securing the same; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 represents a side view in a broken-off section of rail, with a face view of the lock-nut plate and fastener.

Figures 2, 3, and 4 show end sectional views of rail-joints, fish-plates, bolts, lock-nut plate, and fastener.

Figure 5 shows the lock-nut plate detached.

Figure 6 is a top view of the rail, with the joints secured and the nuts locked on the bolts.

The object of my invention is to secure the nuts from turning off the bolts which hold the plates on the joints of rails, in the most simple, cheap, and efficient manner.

My invention consists in making a long slit longitudinally in the plate that is fitted onto the outside or square of the nuts, and having a bolt working loose in the fish-plate, so that it will turn readily, the outer end of the bolt being joined into a right angle to pass through the long opening in the lock-plate, and turn down by its own gravity, thus forming a button or hook to hold the lock-plate on the nut, as hereafter more fully described, referring to the drawings and to the letters marked thereon.

The rails A and the tie-bars B B, bolted on both sides of the rails, with two or more bolts, *a a*, with a head, *b*, on the outer end, and a nut, *c*, on the screw-thread

end, which are technically termed "fish-joints for rails," are made in the usual form and applied in the usual manner.

My improved plates D may be made of band-iron, of any suitable width, or they may be made of cast metal, with square holes *d d* through them, to nearly fit on the nuts *c c*.

In the central portion, or in any space between the nuts, I make a longitudinal slit, *e*, of sufficient width to allow a bolt, *f*, whose pointed outer end is bent at about a right angle, to pass through the opening, when the angle is in a line with it, the bolt *f* being secured in the tie-bar B, so that it will turn easily, and allow the angle portion outside of the plate D to turn down by its own gravity, and thus form a button to secure the lock-nut plate in its place.

Many other devices have been applied and are now in use to some considerable extent, but none that have ever come to my knowledge are so easy of operation, so simple and cheap in their construction, and so decidedly efficient for the purpose required.

I do not claim, broadly, the lock-nut plate to fit the square of the nuts, held on by a staple and key, or the bending of plate metal over the edges of the plate, or other similar devices for fastening.

What I do claim as my invention, and desire to secure by Letters Patent, is—

Securing the nut-lock plate D, by means of the slit *e* and button *f*, substantially as described.

In testimony whereof I have hereunto subscribed my name in the presence of—

ESAU D. TAYLOR.

D. L. BENTON,
DAVID COHN.