

G. H. COFFEE.
Nut-Lock.

No. 205,054.

Patented June 18, 1878.

Fig 1

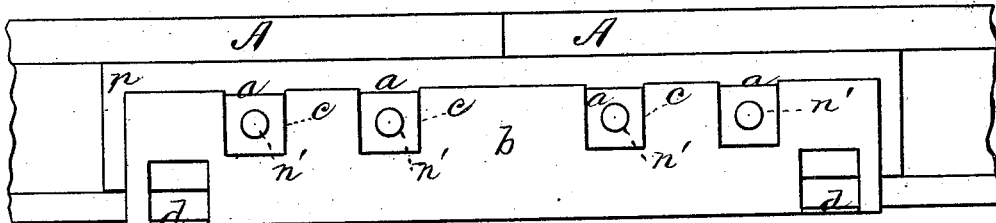


Fig 2

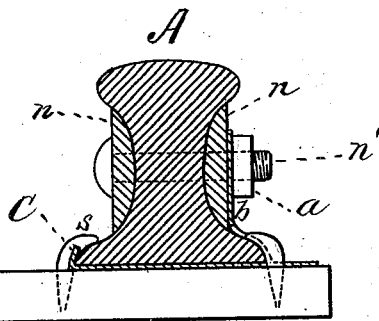
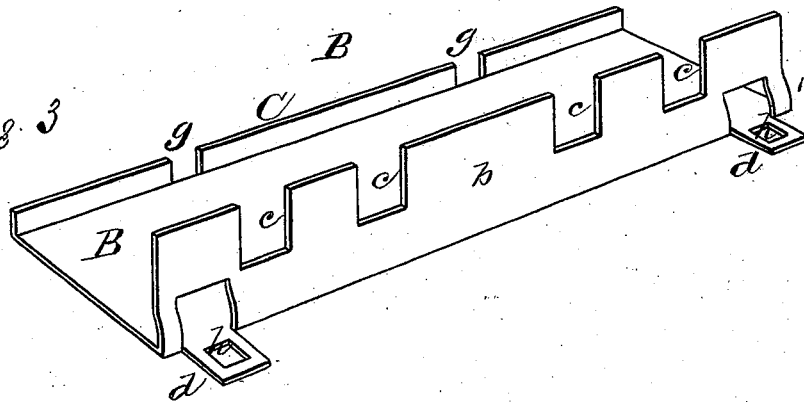


Fig 3



WITNESSES

Mary S. Utley.
Frank J. Masi

INVENTOR

George Holland Coffee,
by Edw. Anderson,

ATTORNEY

UNITED STATES PATENT OFFICE.

GEORGE H. COFFEE, OF GAINESVILLE, MISSOURI, ASSIGNOR OF ONE-HALF HIS RIGHT TO J. B. WENGER, OF SAME PLACE.

IMPROVEMENT IN NUT-LOCKS.

Specification forming part of Letters Patent No. **205,054**, dated June 18, 1878; application filed December 22, 1877.

To all whom it may concern:

Be it known that I, GEORGE H. COFFEE, of Gainesville, in the county of Ozark and State of Missouri, have invented a new and valuable Improvement in Chairs and Nut-Locks for Railroad-Tracks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of this invention. Fig. 2 is a transverse section, and Fig. 3 is a perspective view of the chair and lock.

This invention has relation to improvements in nut-locks; and it consists in the construction and novel arrangement, in connection with fish-bars and headed bolts joining the ends of railroad-rails, said bolts having nuts screwed on their ends, of a metallic shoe, in which the rails are seated, having a vertical flange, the upper edge of which has spaced vertical slots adapted to receive the nuts when said flange is thrust in close to the web of the rail, and provided at its lower edge with one or more tongues, all as hereinafter fully shown and described.

In the annexed drawings, the letter A designates two railroad-rails, the ends of which are joined together in the ordinary manner by means of fish-bars *n* and headed bolts *n'*, the latter having nuts *a* screwed on their ends. B designates a wrought-iron shoe, adapted to receive the rails, provided with a vertical flange *b*, the upper end of which is provided with spaced slots *c*, in which nuts *a* are designed to be received when said flange is thrust in close to the web of the rails, thereby locking the nuts against backward rotation. C designates the inner side of shoe B, the upper edge of which is provided with slots *g*,

adapted to receive the heads of the spikes or nails *s*, which secure the rails to the sleepers underneath, whereby the heads of said spikes are allowed to bear upon the lower flange of the rails instead of on the shoe, thus guarding against the injury they might cause to the latter while being driven home and by resting thereon afterward.

d d designate tongues, struck from shoe B at its lower margins and at the sides thereof, that are bent out horizontally and provided with perforations *h*, in which the spikes which secure the rails in their places on this side of the shoe are received, said spikes being driven at an incline from the shoe, in order that the heads of the same resting thereon will secure the rail when they are driven down close thereto, and at the same time secure the shoe in place.

My improved shoe is adapted to be stamped out of a piece of metal by means of suitable dies, the spaced slots *c*, tongues *d d*, and slots *g* being stamped in like manner, after which the shoe is bent in the proper form to receive the rails.

What I claim as new, and desire to secure by Letters Patent, is—

The wrought-metal railroad-shoe having upturned vertical flanges *b C*, the former having spaced slots *c* for the reception of the nuts *a*, and horizontal eyes *d d* struck out of the body of the flange for the reception of the spikes, and the latter vertical notches *g* for the passage of the heads of the spikes, upon its side, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE HOLLAND COFFEE.

Witnesses:

STEPHEN FRANKLIN DYKES,
FRANCIS MARION KELLETT.