

(No Model.)

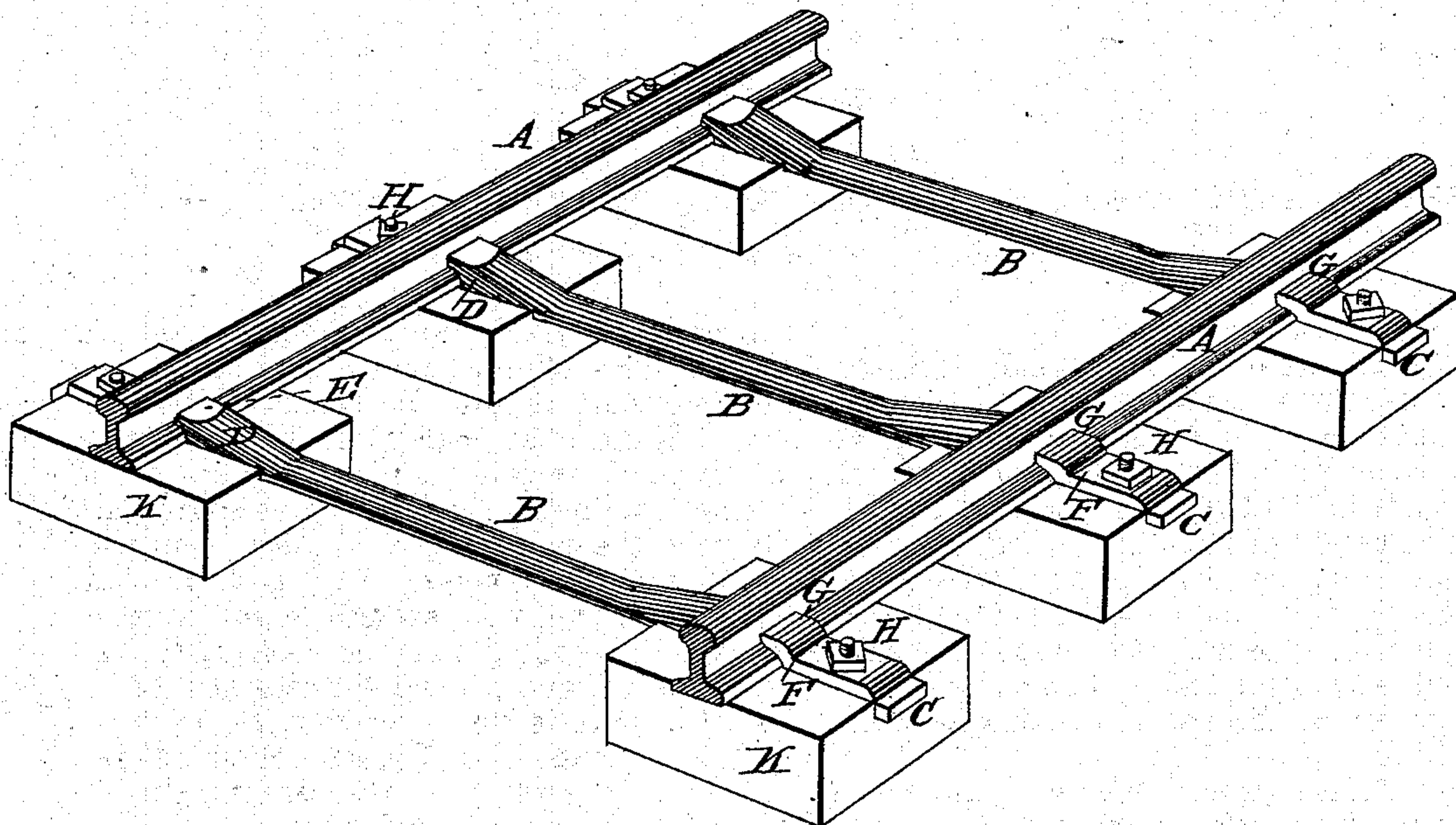
T. J. BRONSON & A. ARMSTRONG.

RAILWAY SLEEPER AND CHAIR.

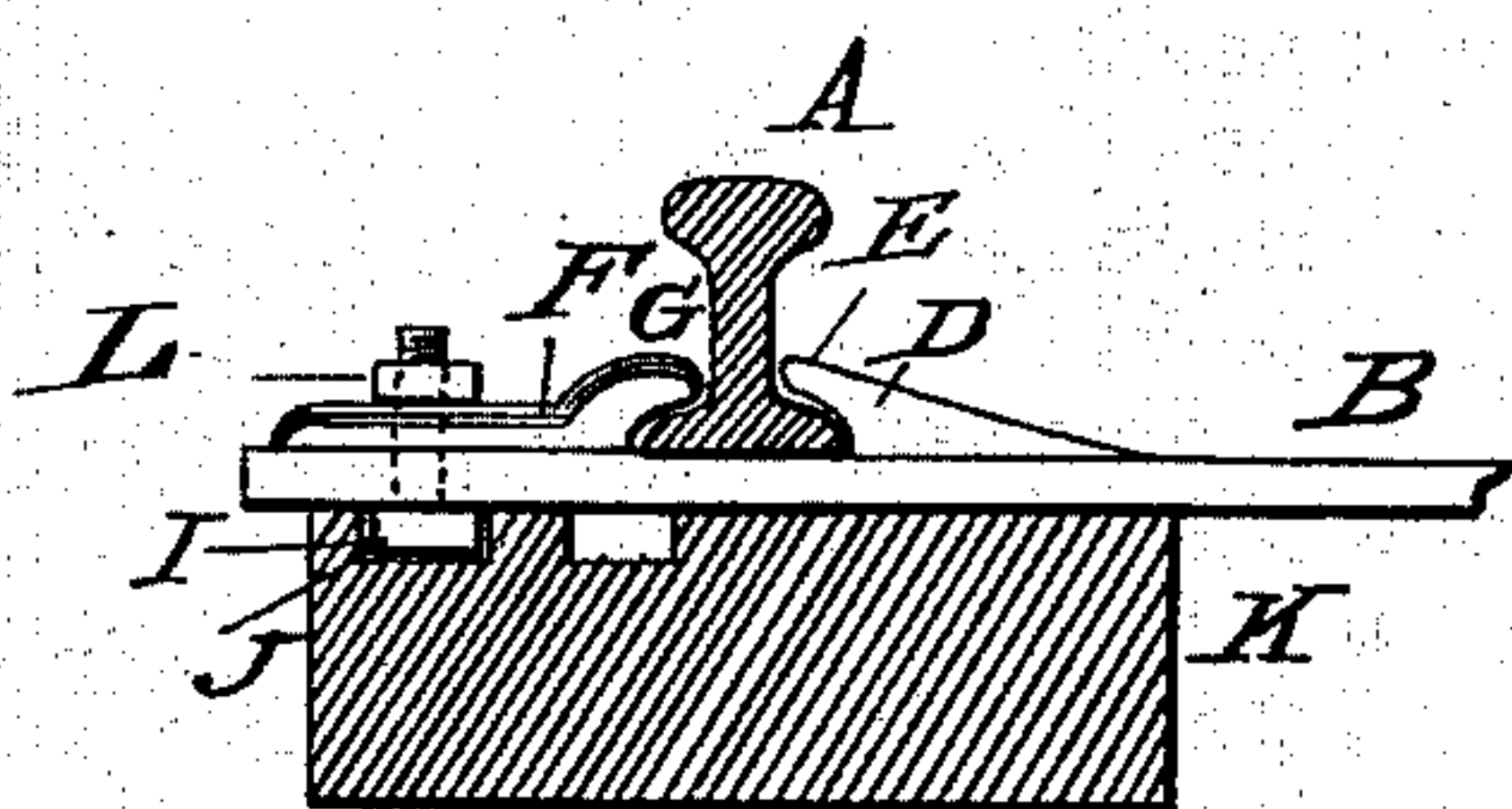
No. 277,000.

Patented May 8, 1883.

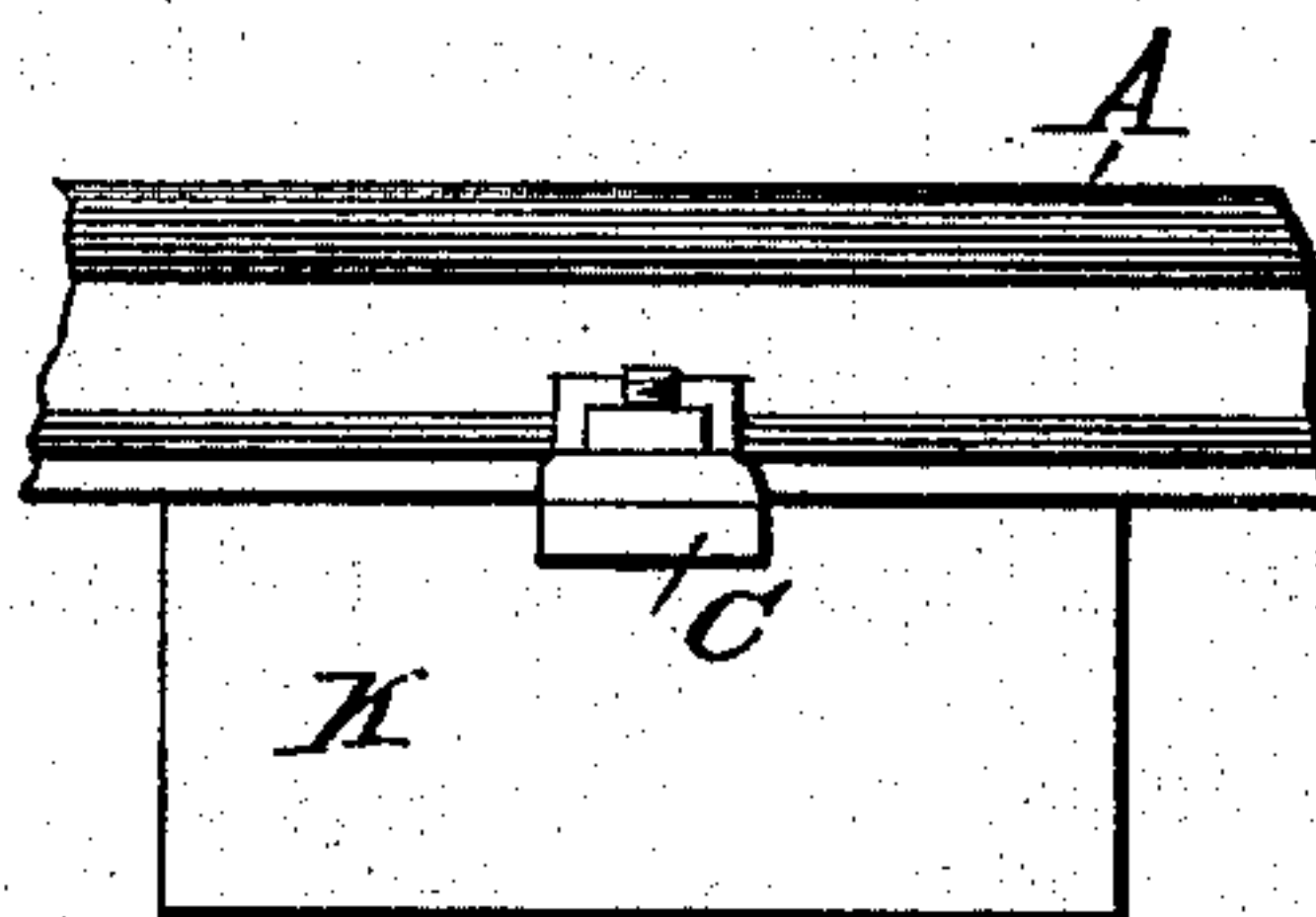
*Fig. 1.*



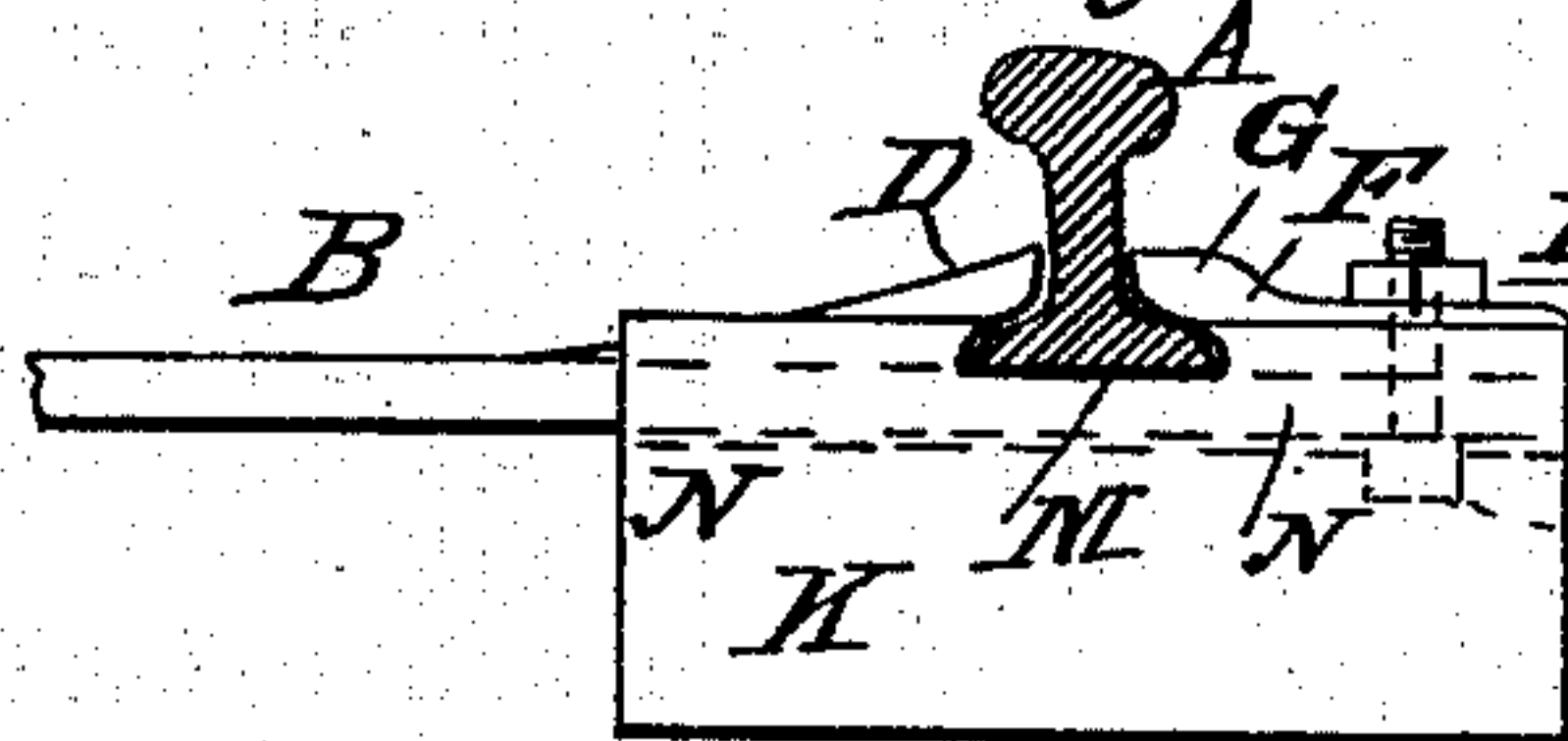
*Fig. 4*



*Fig. 3*



*Fig. 2*



WITNESSES:

*Thos. J. Bronson*  
*Alexander Armstrong*  
*by Louis Bagger & Co*

INVENTORS,

ATTORNEYS



# UNITED STATES PATENT OFFICE.

THOMAS J. BRONSON AND ALEXANDER ARMSTRONG, OF JACKSONVILLE,  
ILLINOIS.

## RAILWAY SLEEPER AND CHAIR.

SPECIFICATION forming part of Letters Patent No. 277,000, dated May 8, 1883.

Application filed December 8, 1882. (No model.)

*To all whom it may concern:*

Be it known that we, THOMAS J. BRONSON and ALEXANDER ARMSTRONG, of Jacksonville, in the county of Morgan and State of Illinois, have invented certain new and useful Improvements in Railway Sleepers and Chairs; and we do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of a piece of railroad-track embodying our invention; and Figs. 2, 3, and 4 are detail views, showing different ways of fastening the sleepers upon the chairs.

Similar letters of reference indicate corresponding parts in all the figures.

Our invention has relation to railway sleepers and chairs; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A represents the rails, which are of the usual construction, and B the sleepers. The sleepers are of metal, and have flat ends C, which have on their upper surface shoulders D, having flanges or lips E, which clasp the inner bottom flange of the rails. Outside the rails are clamps F, having similar flanges, G, and which are fastened to the flat ends of the sleepers by means of one or more screw-bolts, H, the lower square heads, I, of which fit into square recesses J in the chairs K, while they are fastened upon the upper surface of the clamps by nuts L. The rails are held fast by

the clamps D and F, and the sleepers are prevented from sliding sidewise by the square bolt-heads fitting into the recesses in the chairs. The chairs may be made of metal, wood, stone, or any other suitable material, and are laid firmly down in the ballast. Three slight variations in the construction of these chairs are shown in the drawings. In Fig. 2 the chair is shown having two recesses, M and N, crossing each other at right angles, clamping the end of the sleeper and the rail, the recess J, for the reception of the square bolt-head, being in the bottom of recess N. In Fig. 3 the chair is shown having only recess N for the reception of the flat end of the sleeper, and recess J in the bottom of recess N, while in Fig. 4 only the recesses J hold the sleeper, which in that case is supported by the ballast only besides the square bolt-heads.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

The herein-described railway sleeper and chair, consisting of the sleepers B, having flat ends C and flanged shoulders D, flanged clamps F, screw-bolts H, having square heads I and nuts L, and recessed chairs K, having square recesses J for the reception of the square bolt-heads I, all constructed and combined substantially as and for the purpose shown and set forth.

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

THOMAS J. BRONSON.

ALEXANDER ARMSTRONG.

Witnesses:

L. A. McDONALD,

JAMES S. HURST.