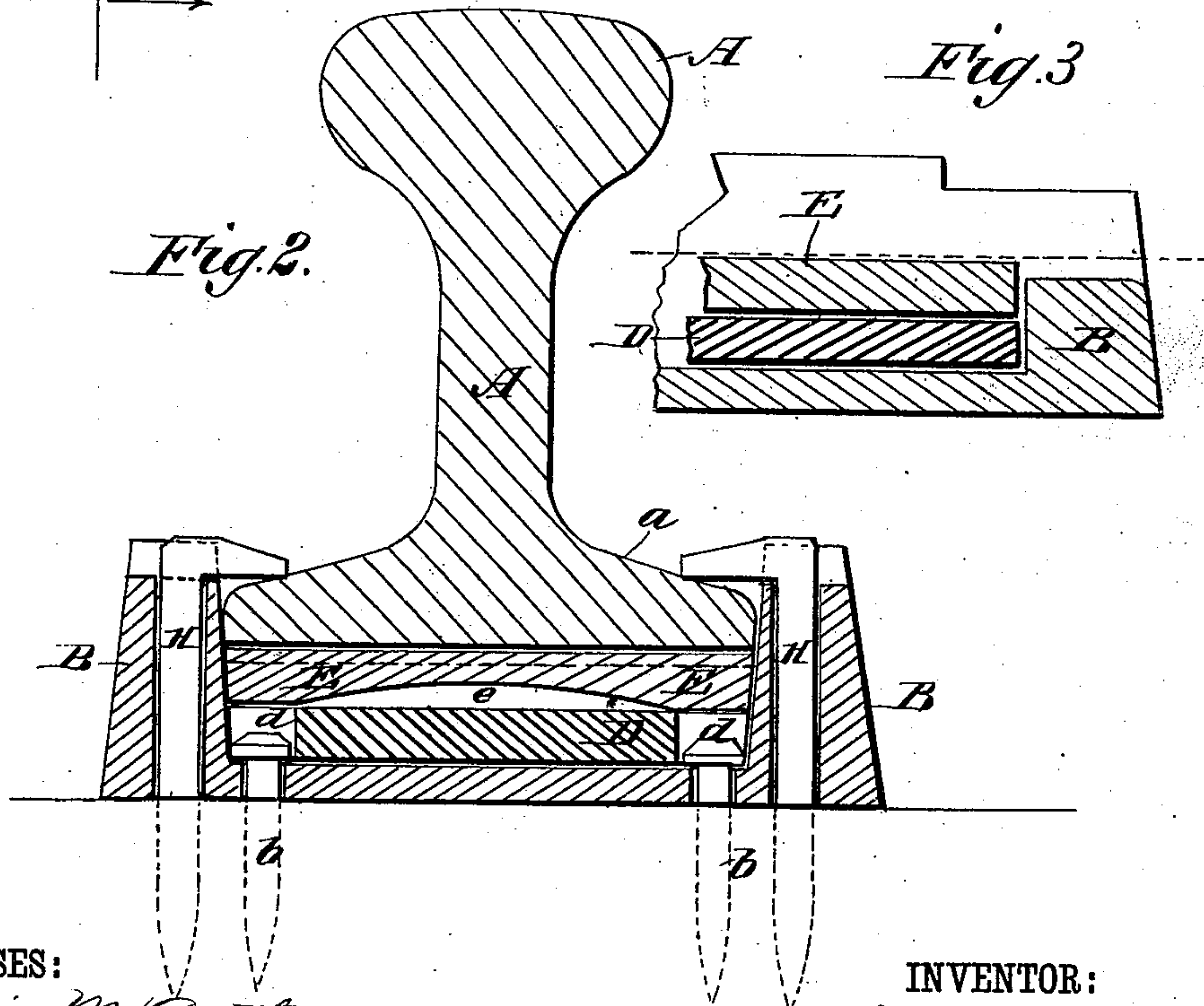
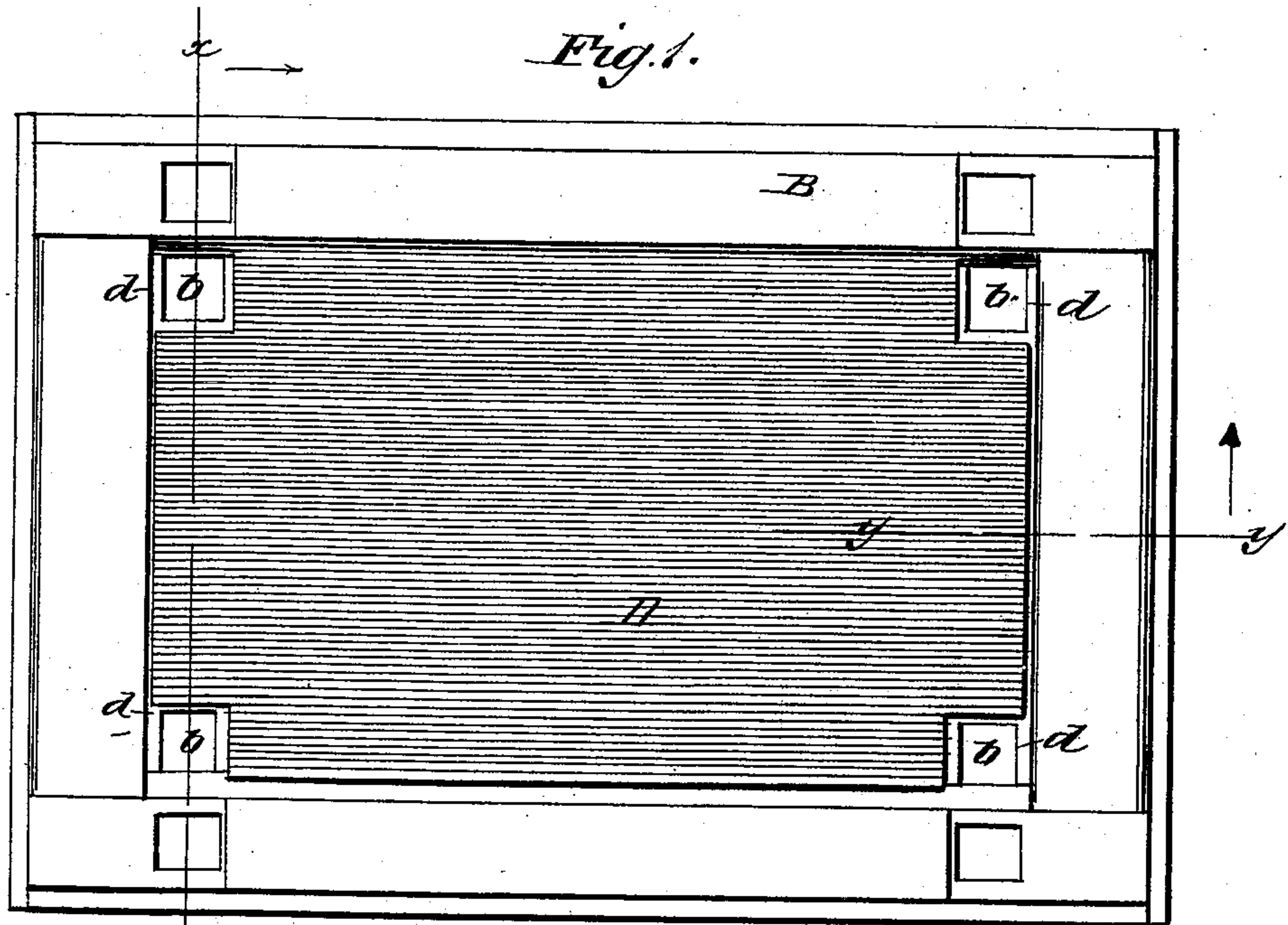


(No Model.)

I. K. BENNETT.  
Rail Fastening.

No. 243,490.

Patented June 28, 1881.



WITNESSES:

*Francis McArdle,*  
*C. Sedgwick*

INVENTOR:

*I. K. Bennett*  
BY *Munn & Co.*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

ISAAC K. BENNETT, OF MOOSUP, CONNECTICUT.

## RAIL-FASTENING.

SPECIFICATION forming part of Letters Patent No. 243,490, dated June 28, 1881.

Application filed April 26, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC K. BENNETT, of Moosup, in the county of Windham, State of Connecticut, have invented a new and useful  
5 Improvement in Rail-Fastenings, of which the following is a specification.

My invention relates to means for securing rails and chairs to the ties and sleepers.

The invention consists in a novel construction, combination, and arrangement of a chair,  
10 a rubber pad, a concave metal plate, and spikes or bolts for securing the parts, as hereinafter more particularly described.

In the accompanying drawings, Figure 1 is  
15 a top view of my invention with the metal plate removed. Fig. 2 is a vertical section taken in the line *x x* of Fig. 1, and Fig. 3 is a vertical section taken in the line *y y* of Fig. 1.

Similar letters of reference indicate corresponding parts.

B is the chair, which is secured to the tie or sleeper by square-headed spikes *b* passing through square holes in its bottom.

D is a rubber pad resting on the bottom of  
25 the chair, and having square notches *d* at its corners for the reception of the heads of the spikes *b*.

E is a metal plate fitting in the chair and resting on the pad D, and having a concavity on its lower side forming an air-chamber or  
30 air-cushion, *e*. The foot *d* of the rail A rests upon the plate E, and is secured by hook-headed spikes H, passing through square holes in the sides of the chair, as shown in Fig. 2,  
35 and thus also assisting the chair to the tie or sleeper.

By the use of the concave plate E and rubber pad D, greater elasticity is imparted to the rail than by the old method of fastening.

The invention may be applied not only to  
40 the rail-joints but to other parts of the rails.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A railroad-fastening formed of the chair B,  
45 spiked to the sleeper, the rubber pad D, having square corner notches, *d*, the plate E, having concavity *e*, and the hook-headed spikes H, as shown and described.

ISAAC KING BENNETT.

Witnesses:

R. V. BROWNING,  
RICHARD H. WARD.