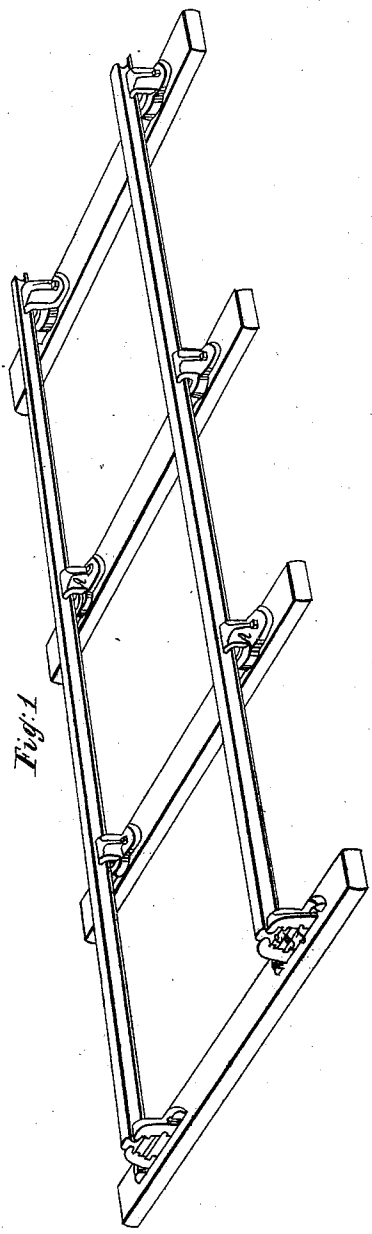


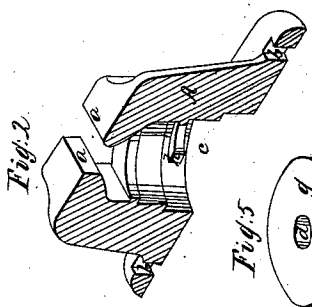
*M. Carpenter.*  
*Railroad Chair.*

*N<sup>o</sup> 24,443.*

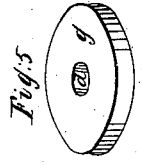
*Patented Jun. 21, 1859.*



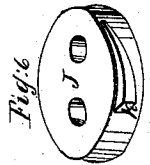
*Fig. 1*



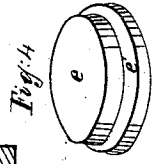
*Fig. 2*



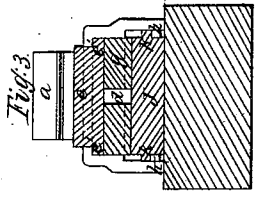
*Fig. 5*



*Fig. 6*



*Fig. 4*



*Fig. 3*

*Witnesses*  
*Hubertson*  
*William P. Ensey*

*Inventor*  
*Marion Carpenter*

# UNITED STATES PATENT OFFICE.

MARION CARPENTER, OF CINCINNATI, OHIO.

## RAILWAY-CHAIR.

Specification of Letters Patent No. 24,443, dated June 21, 1859.

*To all whom it may concern:*

Be it known that I, M. CARPENTER, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Railway-Chairs; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon and made to form a part of this specification.

The nature of the invention consists in the construction of the chair and the parts contained therein for sustaining the elastic cushion and the metal follower as hereinafter described.

In reference to the accompanying drawings Figure 1 represents in perspective two rail way bars, arranged upon the chairs in accordance with my invention. Fig. 2 is a vertical sectional view of the chair, the cap cushion and follower being removed. Fig. 3 is a sectional view, taken through the rail, chair and sleeper, showing the arrangement of the parts, within the chair, and their relation to the rail and sleeper. Fig. 4, represents the follower, Fig. 5 the cushion or spring, and Fig. 6 the securing base.

(A) represents the chair, cast in one piece, with the lips (*a, a*) for securing the rail; flanges (*b b*) for securing the chair to the sleeper, and cylindrical opening (*c*) for receiving the follower, cushion, and securing base, the upper portion of the opening (*c*), is made somewhat smaller than the lower portion, and the chair at this point, is formed with a concentrically projecting rim, which receives the shoulder (*e'*) of the follower and prevents any reaction of the cushion (*g*) from forcing the follower from its proper place or affording too much elasticity to the bearing of the rail; (*g*) is an elastic cushion of india rubber, made to fit the opening (*c*) and formed with a perforation (*d*) for the purpose of affording space for the contrac-

tion of the cushion (*g*). At the base of the opening (*c*), and cast with the chair (A), are the tapering lugs (*h h*) which are formed with reference to the inclined lugs (*k, k*), of the securing base (J), so that by properly inserting the base (J) within the opening (*c*), and turning it one fourth a revolution, the lugs (*k*) of the base, will ride up, upon the lugs (*h h*) of the opening (*c*) by means of which the base (J) cushion (*g*) and follower (*e*) are perfectly secured within the opening (*c*) as shown in Fig. 3 and when thus adjusted the bottom of the base (J) will be flush with the base of the chair (A) and harmonize with the bearing of the chair upon the sleeper; the follower projects above the opening (*c*), sufficiently to form a perfect bearing for the base of the rail as shown in Fig. 3, thereby affording to the rail the full benefit of the cushion (*g*). When all the parts of the chair are adjusted as above described the base of the rail may be passed within the lips (*a, a*), of the chair, and when properly arranged for use, the chair will be spiked to the sleepers as shown in Fig. 1, and the elastic rail way track is completed.

I do not claim making an elastic cushion to support iron rails upon railroad timbers and track, as that has been already patented, nor do I claim the protection of such cushion by a follower but

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

The combination of the lugs *h h, k k*, with the base piece J, for sustaining the elastic cushion and its follower in the manner and for the purpose set forth.

In testimony of which invention I have hereunto set my hand.

MARION CARPENTER.

Witnesses:

H. E. CLIFTON,  
W. P. ENSEY.