

E. Robbins.

Railroad Track.

N^o 76,348.

Patented Apr. 7, 1868.

Fig. 1.

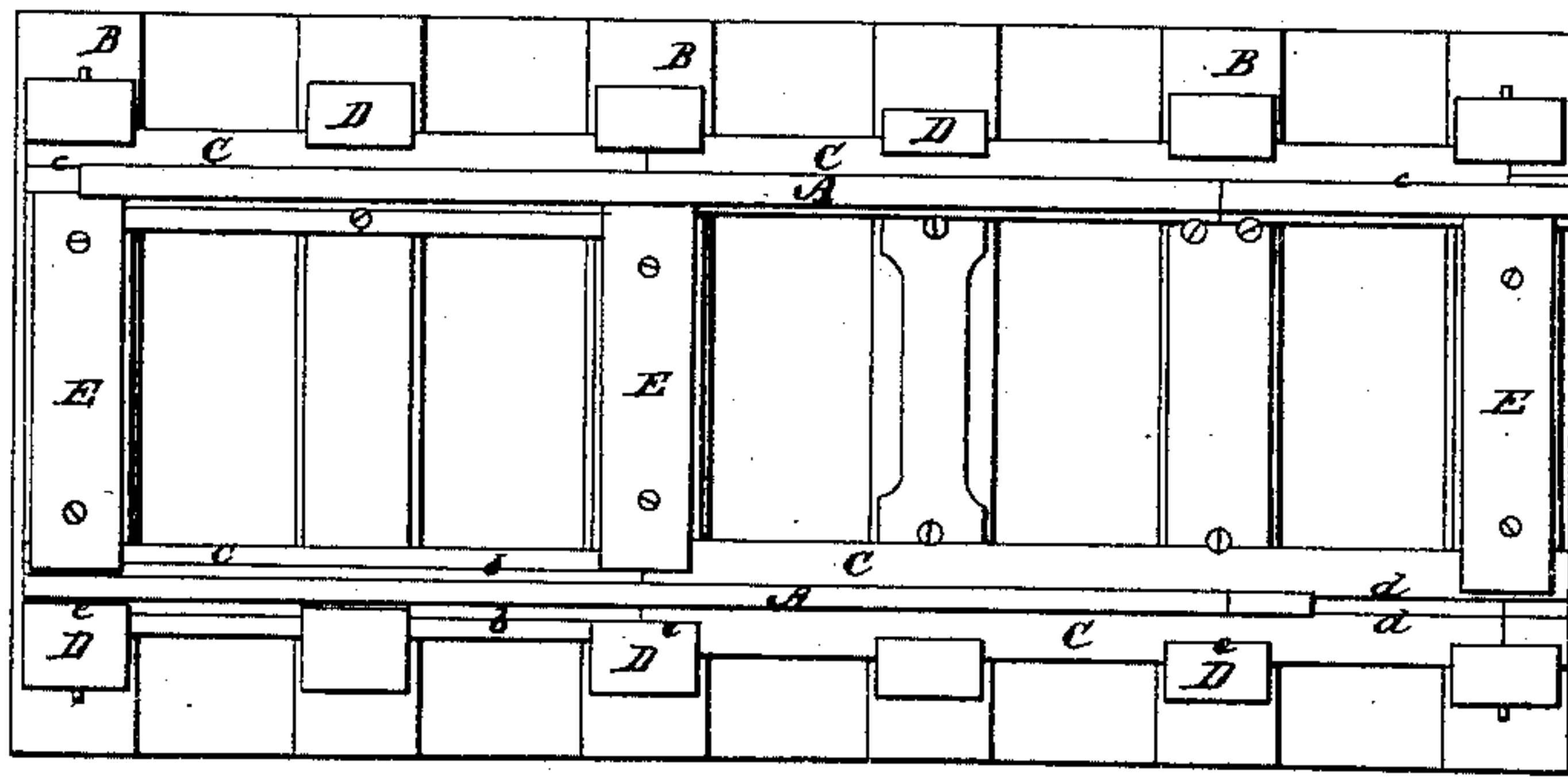


Fig. 2.

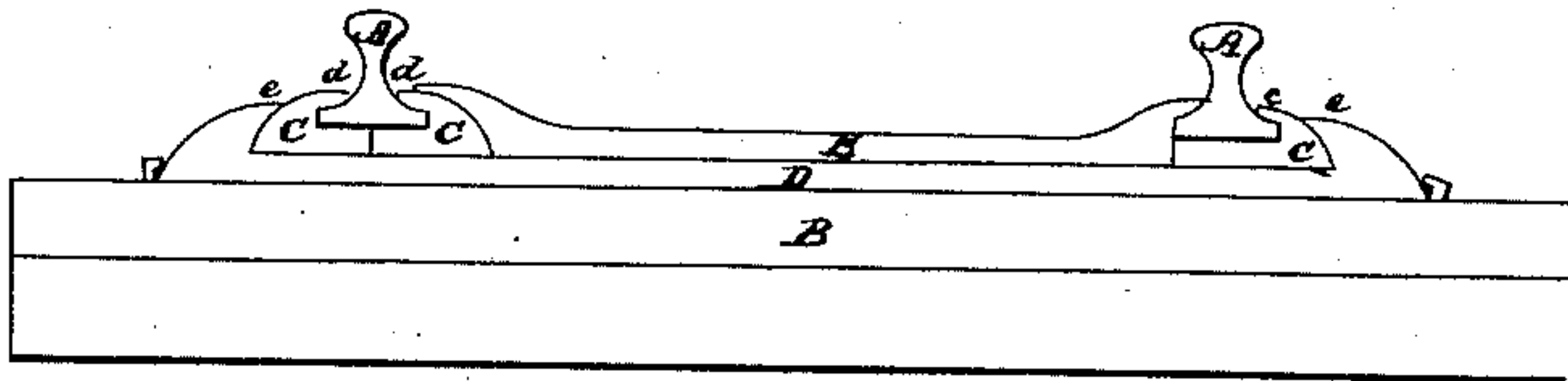
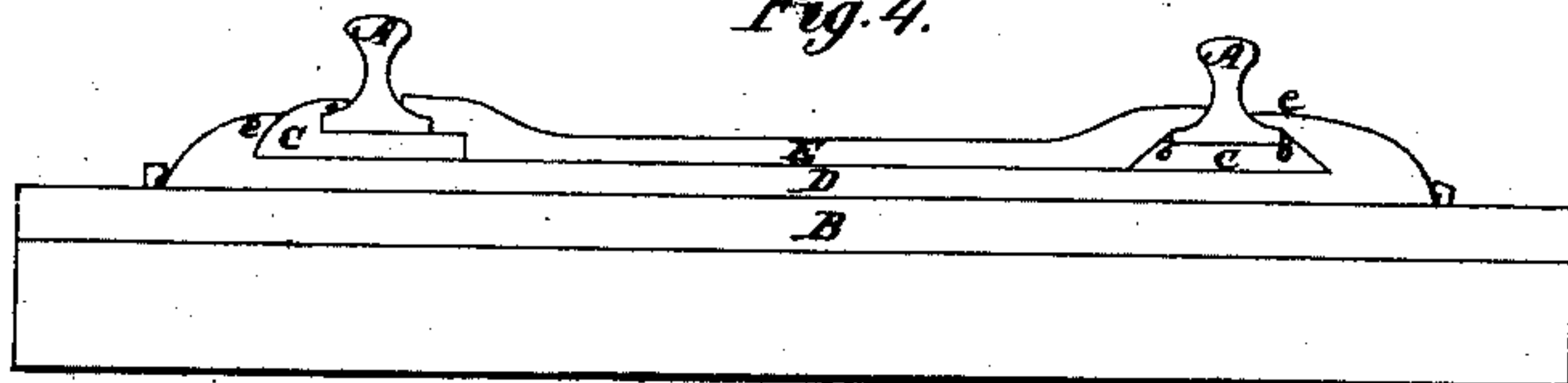


Fig. 4.



Witnesses:

S. A. Piper
Laird Mott

Inventor:
Elisha Robbins
by his attorney
R. H. Eddy

United States Patent Office.

ELISHA ROBBINS, OF WORCESTER, MASSACHUSETTS.

Letters Patent No. 76,348, dated April 7, 1868.

IMPROVEMENT IN RAILWAYS.

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

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, ELISHA ROBBINS, of the city and county of Worcester, and State of Massachusetts, have invented a new and useful Improvement in Railways; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view of a railway-track provided with my invention.

Figures 2 and 3 are end views of it.

In such drawings, A A are the two rails, formed in sections or short rails in the ordinary manner. They may be the T or H-pattern. I prefer, however, to make each with a section, as represented in the drawings, but having a superficial area in cross-section less than they are usually constructed when they are to be supported at intervals by chairs. I combine with each rail a continuous metallic support, to extend from tie to tie of the road-bed, and to embrace such rail on either or both the opposite sides or edges of its base. The said supports of the two parallel rails I sustain on and by a lateral metallic chair to lie on and be spiked or fastened to the upper surface of a tie, and embrace the supports of the two rails, in manner as represented in the drawings. I also employ a metallic brace to rest on the transverse or duplex chair, and extend from one longitudinal rail to the other, and lap on both their base-ports, or to extend between and lap upon both of their longitudinal metallic base-supports. The ties of the road-bed are represented at B B B, &c. The continuous longitudinal supporters are shown at C C, each of which may be grooved lengthwise, as shown at *b* in fig. 3, to receive the base-part of the rail A, or may be made with a single flanch, (as shown at *c* in figs. 2 and 3,) to lap on the base-flange of the rail; or the base-supporter may be formed in two separate parts, with a lapping flange to each, such being as shown at *d d* in fig. 2. The transverse duplex chair, made with two flanges *e e*, to overlap the rail-braces or longitudinal supports, is represented at D D D, &c., as placed on the several ties, and fastened to them. The metallic cross-braces fixed on the duplex chairs, and lapping on the bars of the rails, or on their longitudinal supporters, are shown at E E, &c. They are to be fastened down to the chairs by screws or bolts. The spikes used to fasten the transverse chairs to the ties may be employed to lap on the rail-bases, and, in such case, they may go through the longitudinal base-supporters. The arrangement of the parts as above described are represented in the drawings.

The advantage of my invention is, that by means of it the rails of the track are firmly held in place, so that there can be no breaking down of them at the joints, or spreading of them laterally, under the actions of the carriage-wheels on them.

I claim, in combination with an iron rail, a metallic chair or supporter, C, to receive it, and extend longitudinally and continuously under such rail, and from end to end of it, and upon a series of ties, or their equivalent, and lap on either or both flanges of the base of the rail, as specified.

I also claim such a chair, as made or divided lengthwise in two parts, with a lip or flange to each, to grasp and extend over the base of a rail, as specified.

I also claim, in combination with two parallel rails A A of a railway, the cross or duplex chair D, made with lips to grasp the bases of the opposite rails, or two longitudinal chairs or supporters C C, applied thereto in manner as specified.

I also claim the combination of the metallic brace E with the parallel rails A A, and the transverse or duplex chair D, applied to such rails, or to their longitudinal metallic supports or chairs C C, as explained.

ELISHA ROBBINS.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr.