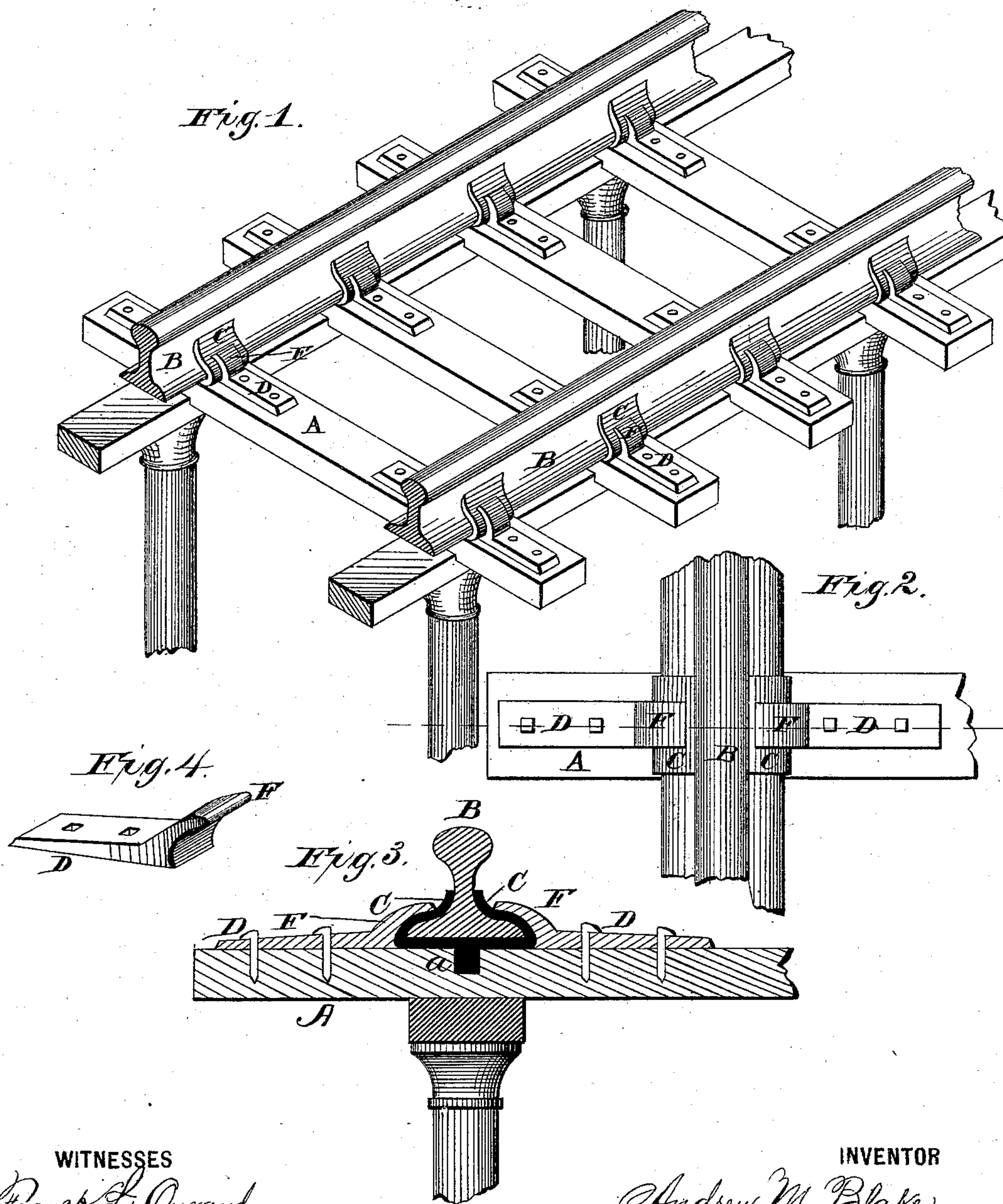


A. M. BLAKE.
Rail-Chair.

No. 218,853.

Patented Aug. 26, 1879.



WITNESSES
Frank L. Ornaud
J. J. McCarthy

INVENTOR
Andrew M. Blake
Alexander Mason
ATTORNEYS

UNITED STATES PATENT OFFICE.

ANDREW M. BLAKE, OF CANTON, OHIO, ASSIGNOR OF ONE-HALF HIS
RIGHT TO LEWIS RAYNOLDS, OF BURLINGTON, IOWA.

IMPROVEMENT IN RAIL-CHAIRS.

Specification forming part of Letters Patent No. **218,853**, dated August 26, 1879; application filed
July 25, 1879.

To all whom it may concern:

Be it known that I, ANDREW M. BLAKE, of Canton, in the county of Stark, and in the State of Ohio, have invented certain new and useful Improvements in Railroad-Chairs; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The object of my invention is to reduce the jar or concussion of railroad-trains, lessen the noise, and prevent the destruction of rails and rolling-stock; and the nature of my invention consists in the construction of an elastic chair provided with a bottom cushion, and in the combination, with a railroad tie and rail, of an elastic chair enveloping or incasing the foot of the rail, and provided with a central bottom cushion and independent clamping-bars formed with curved jaws, all as hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a perspective view of a railroad-track embodying my invention. Fig. 2 is a plan view, and Fig. 3 a section, showing one chair and fastening. Fig. 4 is a view of one of the clamps.

A represents an ordinary railroad-tie, with the rail B placed thereon. C represents the chair, which is made of rubber or similar elastic material, and is placed on the tie under the rail, and the ends of the chair are passed over the foot of the rail, as shown.

In the center of the chair is formed a downward projection, *a*, which fits in a corresponding recess in the tie, this projection constituting an enlarged elastic cushion under the center of the rail.

The clamps for fastening the chair and rail

consist of metallic bars D D, fastened to the tie, one on each side of the rail, the inner end of each bar forming a curved jaw, F, which extends over the foot of the rail, the end of the elastic chair, however, lying between the rail and said jaw.

My invention is specially designed for elevated railroads, but may also be used on other railroads, if desired, to deaden the noise and lessen the jar and concussion incident to the passage of railroad-trains.

It will be noticed that by my construction of the railroad-chair and clamp I obtain an elastic cushion under the rail, and also a similar cushion for any upward spring of the rail, as the clamps are independent from the rails and have the chair between them and the rail.

I do not broadly claim an elastic chair formed to the shape of and enveloping the foot of the rail, as I am aware that such is not new.

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

1. A railroad-chair, C, made of rubber or similar elastic material, enveloping or incasing the foot of the rail and having a central downward projection or cushion, *a*, substantially as shown and described.

2. The combination, with a railroad tie and rail, of the elastic chair C, enveloping or incasing the foot of the rail, and provided with central bottom cushion *a*, and the independent clamping-bars D D, formed with the curved jaws F F, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of July, 1879.

ANDREW M. BLAKE.

Witnesses:

J. J. MCCARTHY,
H. J. ENNIS.