

No. 725,055.

PATENTED APR. 14, 1903.

C. B. EBERT.
METALLIC TIE FOR RAILROADS.
APPLICATION FILED OCT. 16, 1901.

NO MODEL.

Fig. 1.

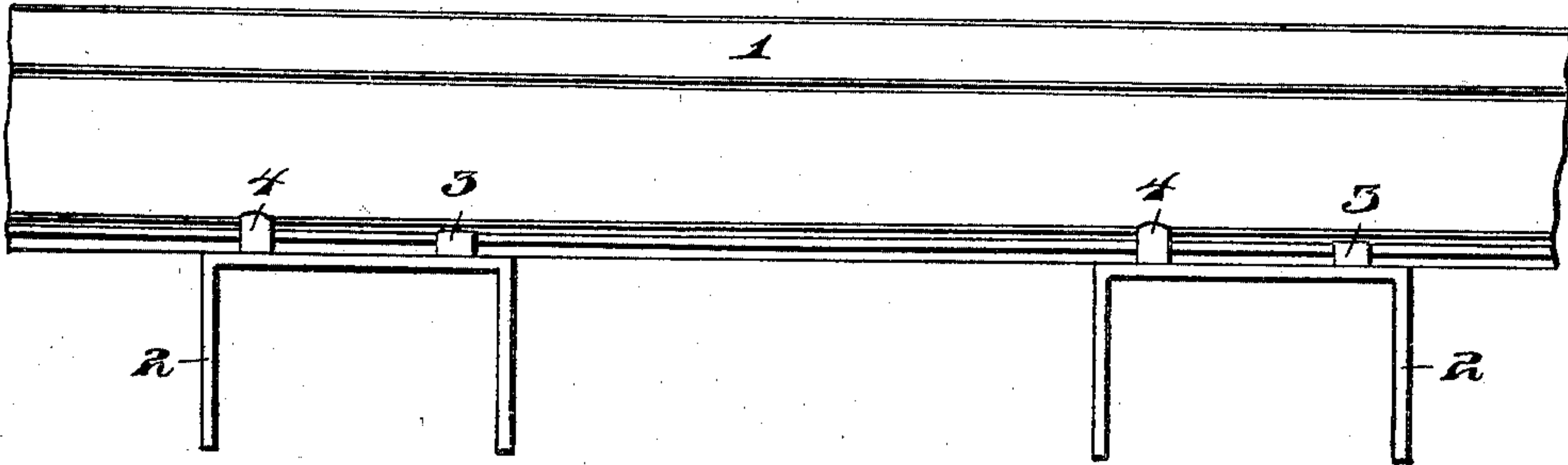


Fig. 2.

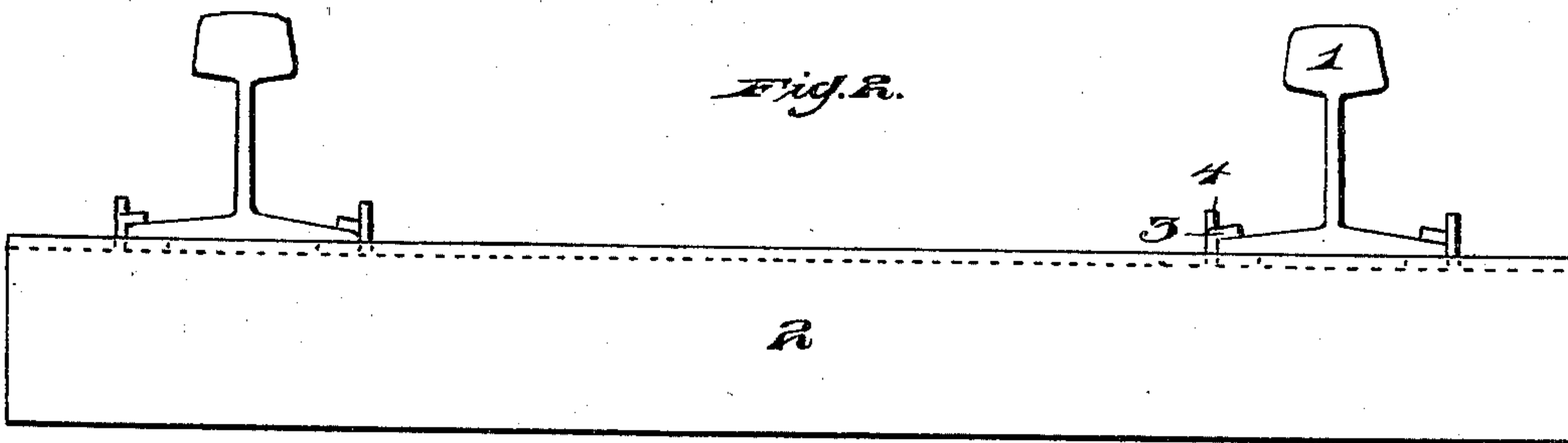


Fig. 3.

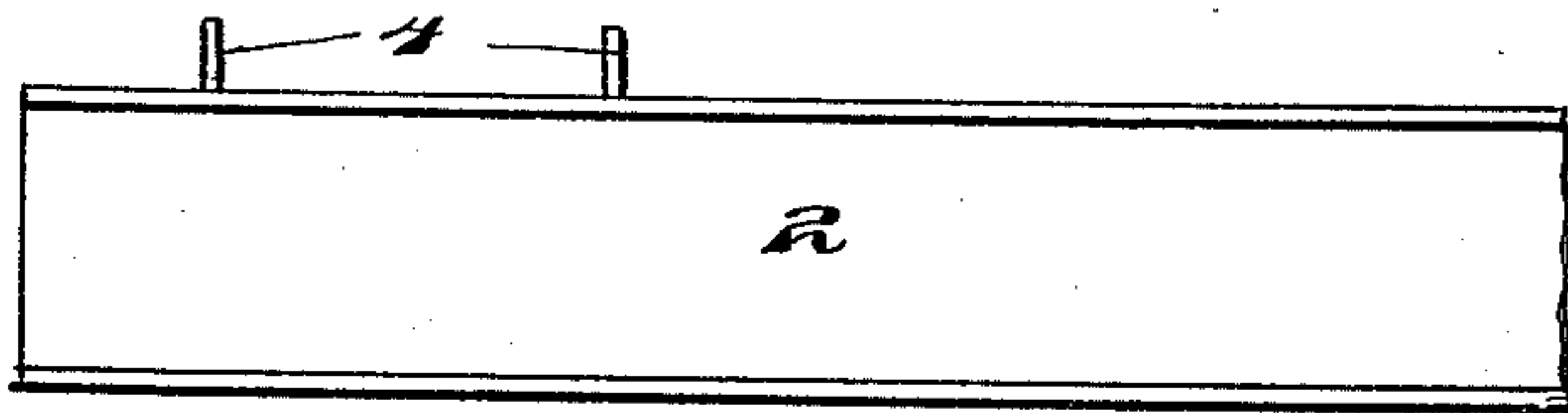


Fig. 4.

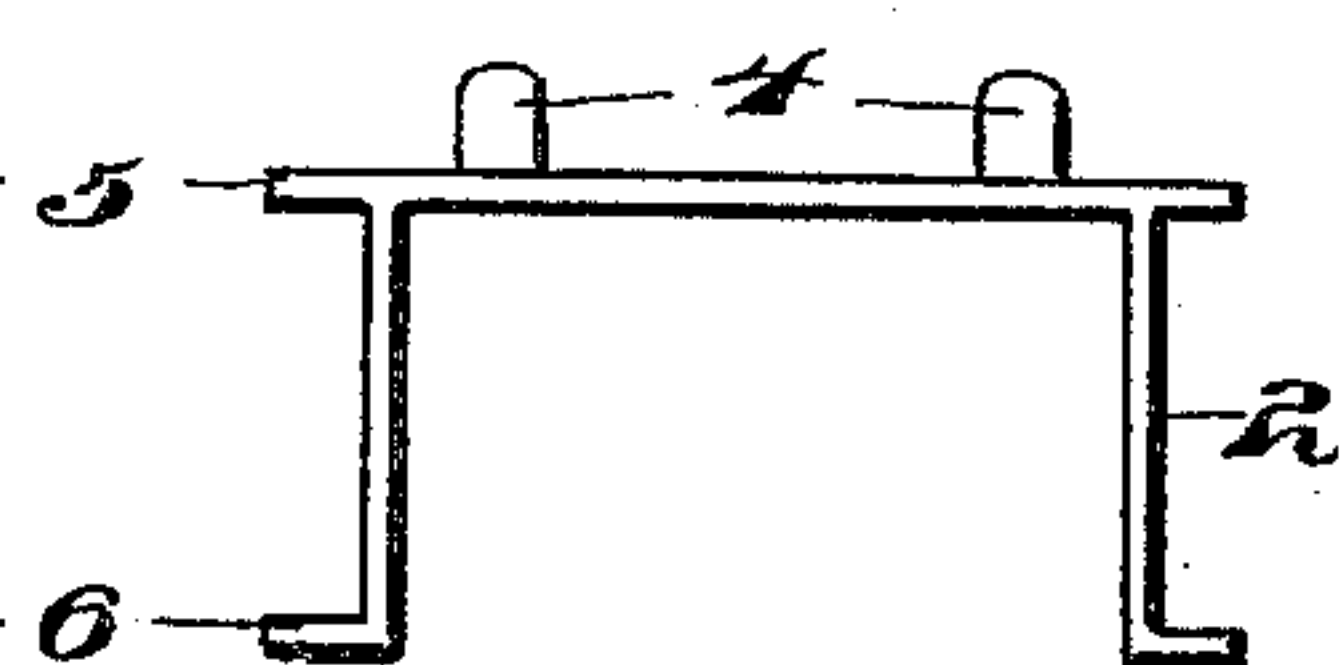


Fig. 5.

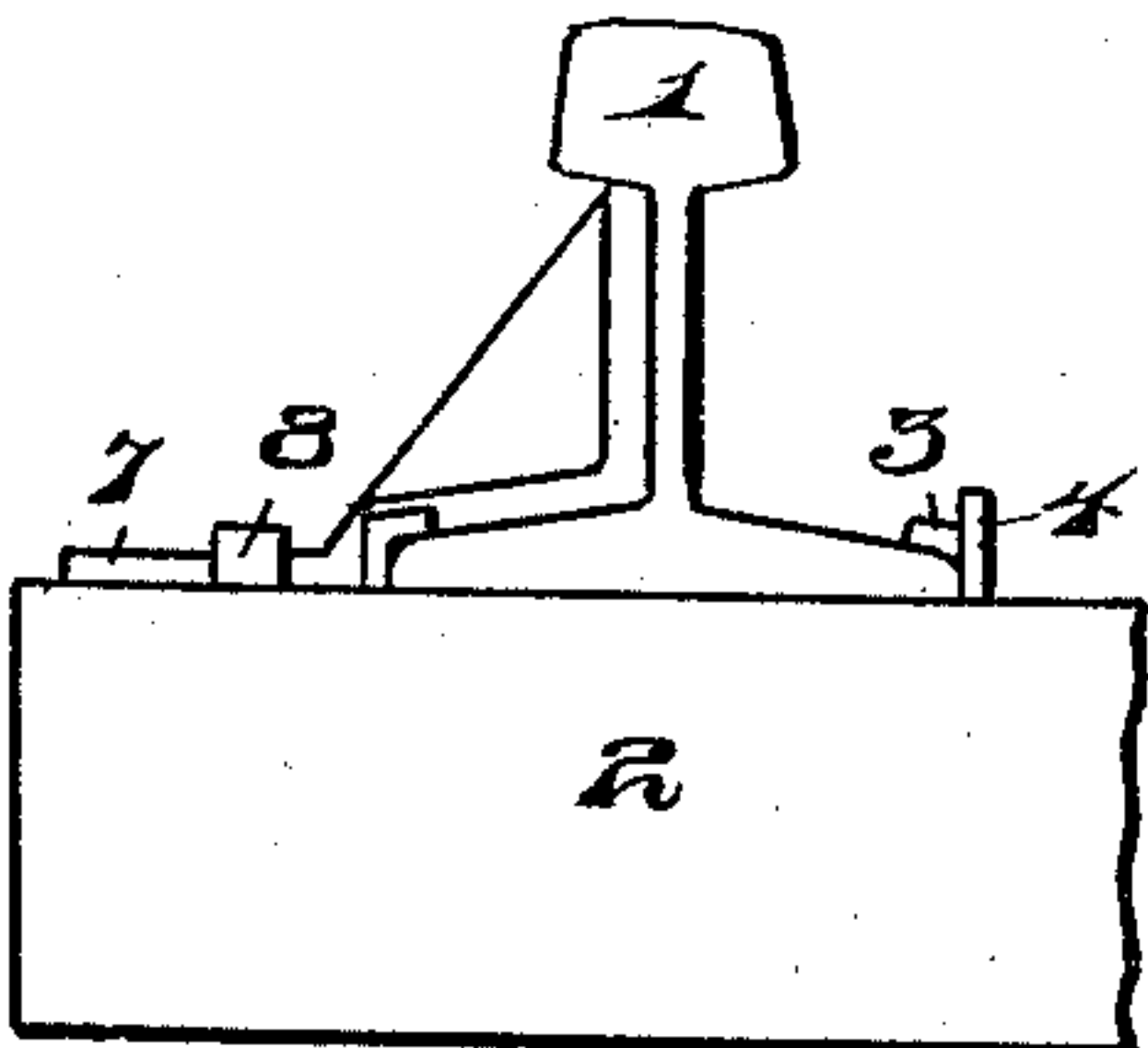


Fig. 6.

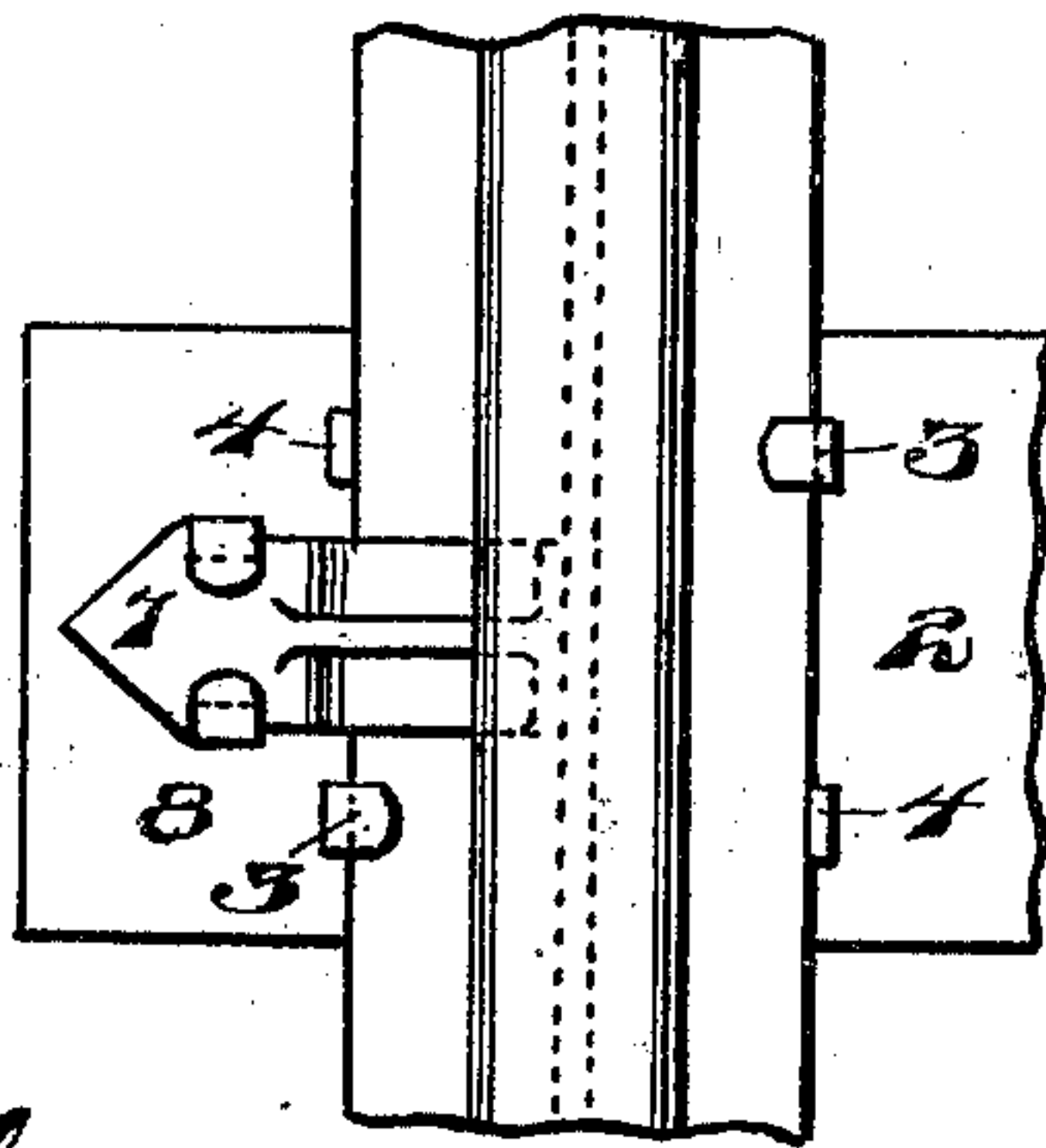
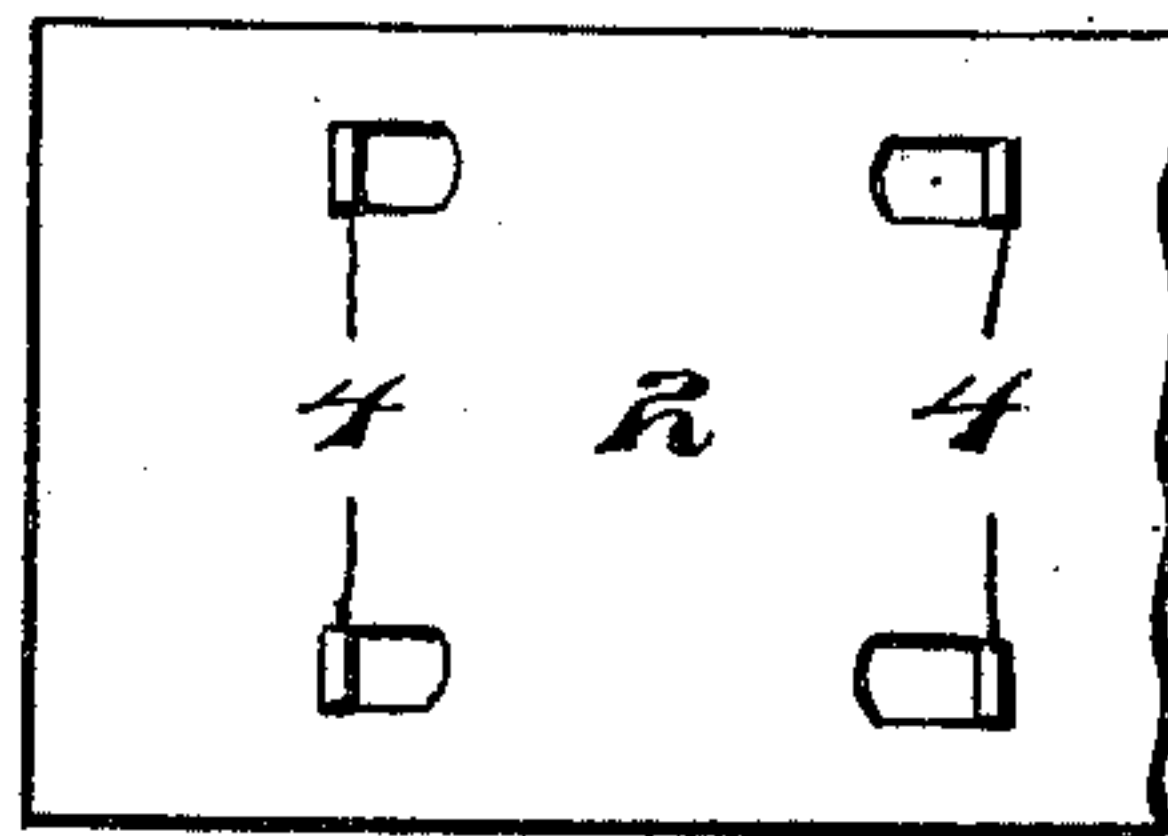


Fig. 7.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES B. EBERT, OF PITTSBURG, PENNSYLVANIA.

METALLIC TIE FOR RAILROADS.

SPECIFICATION forming part of Letters Patent No. 725,055, dated April 14, 1903.

Application filed October 16, 1901. Serial No. 78,778. (No model.)

To all whom it may concern:

Be it known that I, CHARLES B. EBERT, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Metallic Ties for Railroads, of which improvement the following is a specification.

This invention relates to certain new and useful improvements in metallic railway-ties, and has for its object the provision of novel means whereby the rails are securely fastened to the ties and may be easily removed therefrom when desired.

The invention consists of a railway-tie formed of a channel-bar having stamped-out lugs, which serve as fastening means for the rails.

The invention has for a further object to construct a device of this character that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its operation.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

Figure 1 is a side elevation of a rail having my improved cross-ties connected thereto. Fig. 2 is an end view thereof. Fig. 3 is a side elevation of a modified form of my improved tie, showing the outwardly-extending shoulders and the outwardly-extending base. In this figure the lugs are turned upwardly. Fig. 4 is an end view of this modified form. Fig. 5 is an end view of another modification of my invention, showing the chair applied thereto. Fig. 6 is a top plan view thereof. Fig. 7 is a plan view of a portion of the tie.

In the drawings the reference-numeral 1 indicates the rail. 2 indicates the cross-ties, which are formed of channel-bars, said cross-

ties having on each side two upwardly-extending lugs, which are stamped out of the body portion, these lugs being indicated by reference-numerals 3 and 4. The lug 4 is of sufficient length to be bent over upon the base of the rail, while the lug 3 is only of sufficient length to abut against the side of the rail.

The reference-numeral 5 indicates outwardly-bent shoulders, (shown in the modified form,) and 6 represents outwardly-bent portions of the channel-bar.

The reference-numeral 7 indicates a chair which is also suitably secured in securing-lugs 8, which are likewise stamped out of the body portion of the tie.

The manner of placing these cross-ties in position in connection with the rail will be readily understood.

The many advantages obtained by the use of my improved device will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

In combination with the metallic channel-tie having upset lugs 4 and 8, a chair engaging the flange and web of a rail and having a projection which is notched on opposite edges and engaged by said lugs 8 which latter are adapted to hold said chair in place with its under face against the upper surface of the tie, as set forth.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

CHARLES B. EBERT.

In presence of—

S. R. DYER,
P. D. SWICK.