

J. A. EICHOLZ.

RAIL JOINT.

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898,854.

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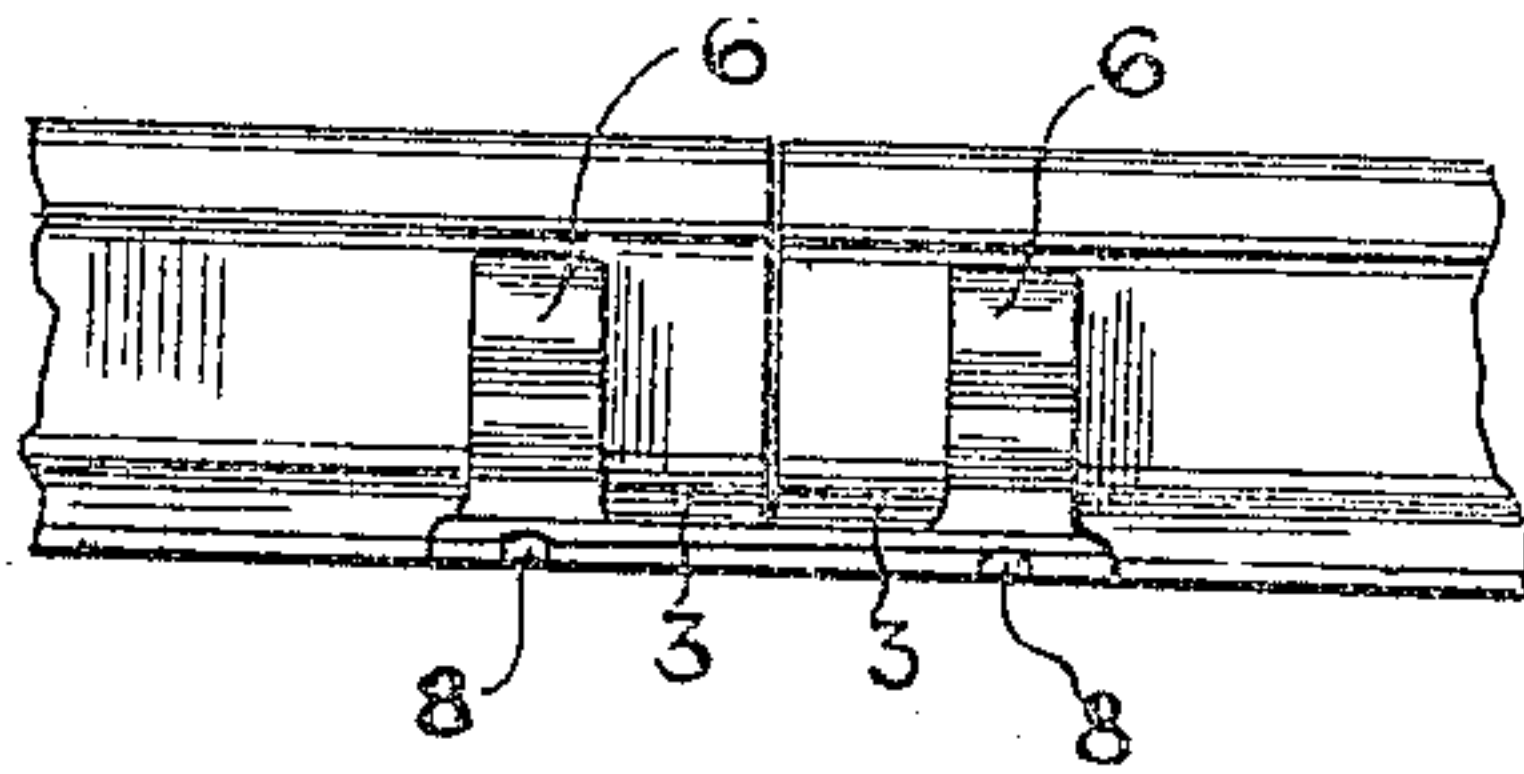
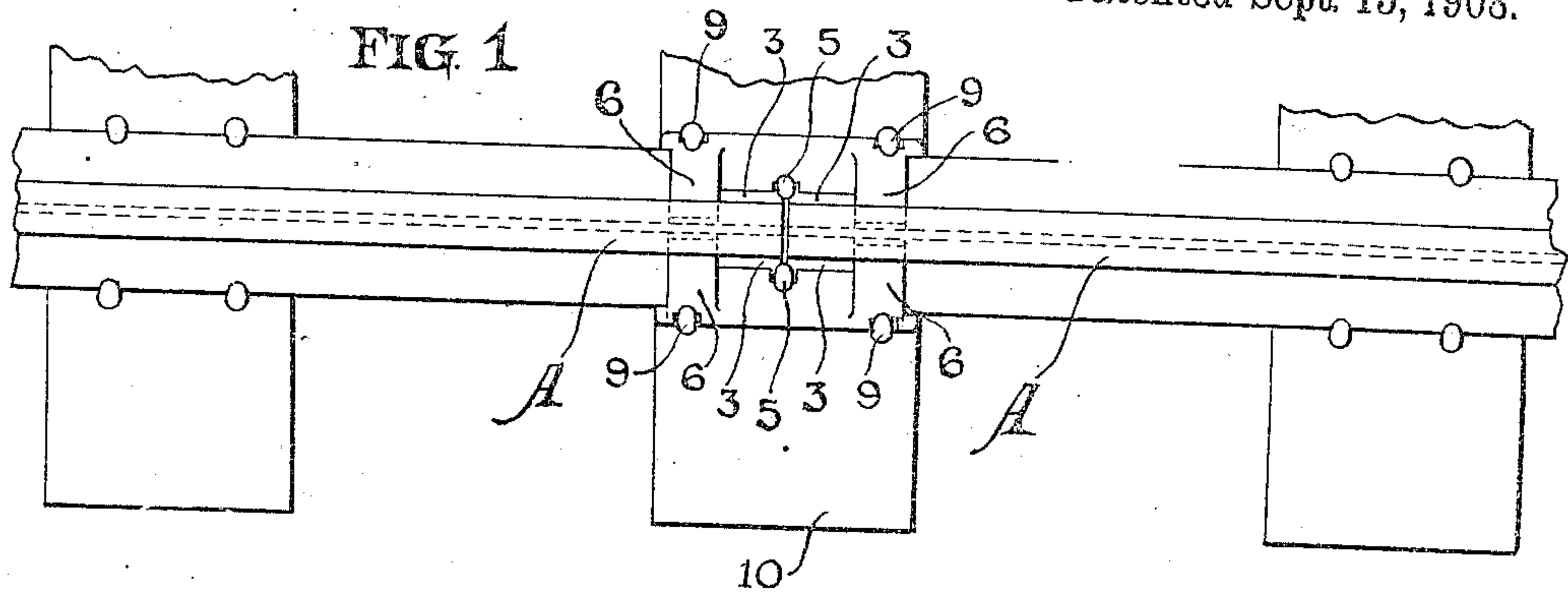


FIG. 2

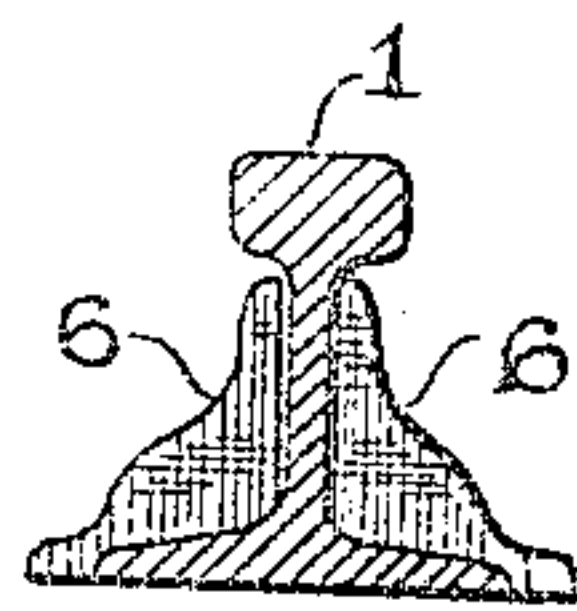


FIG. 3

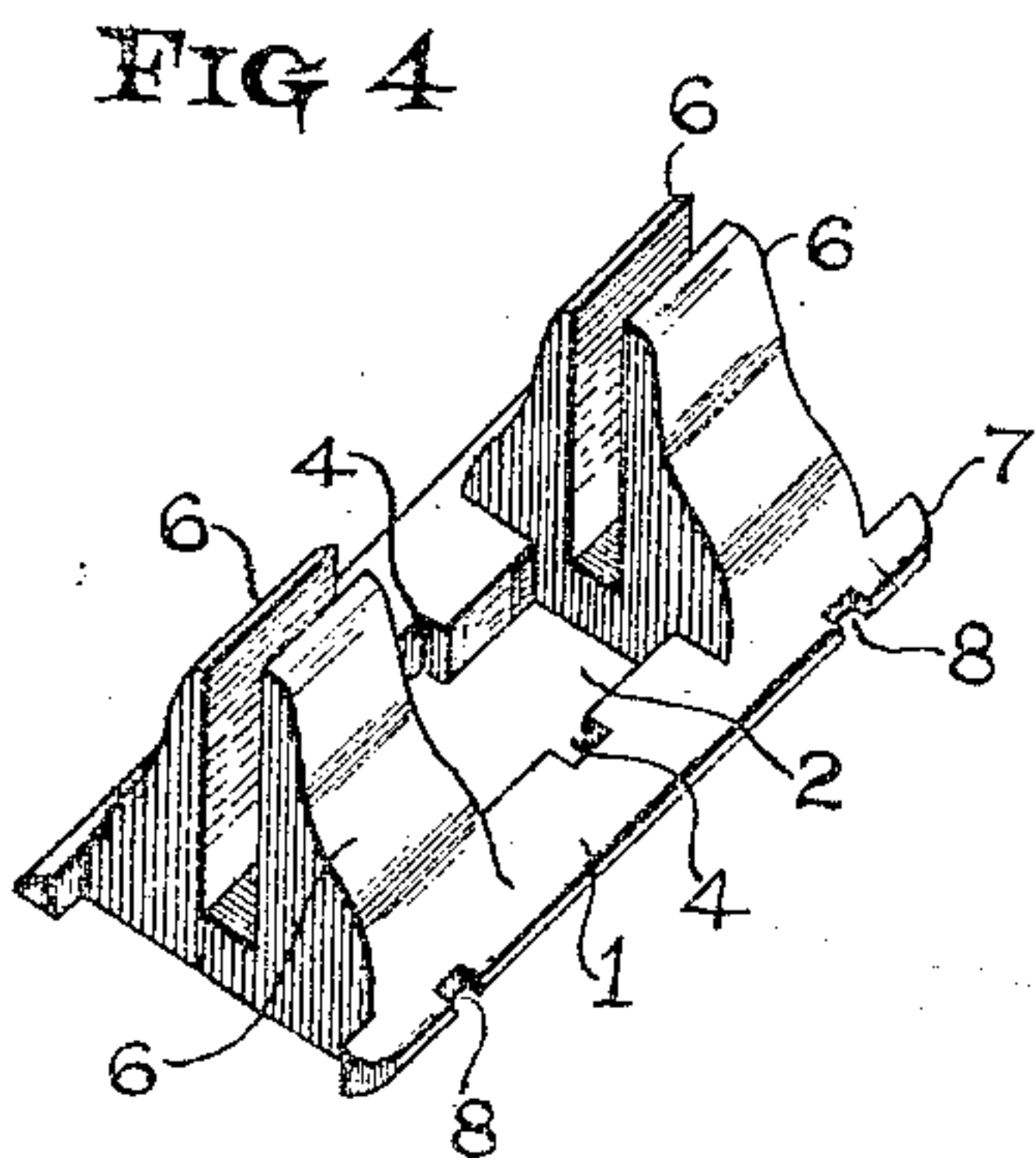
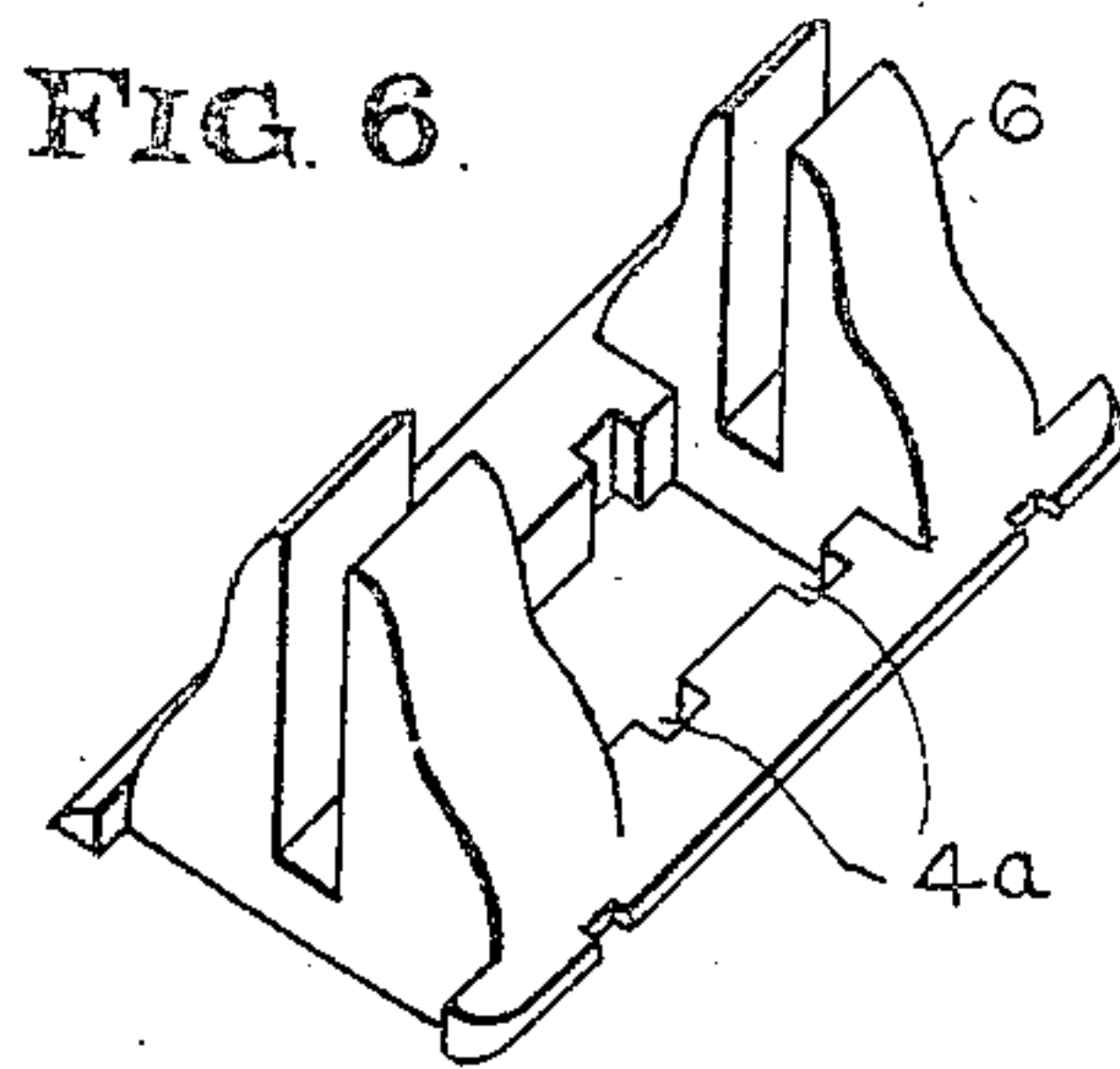
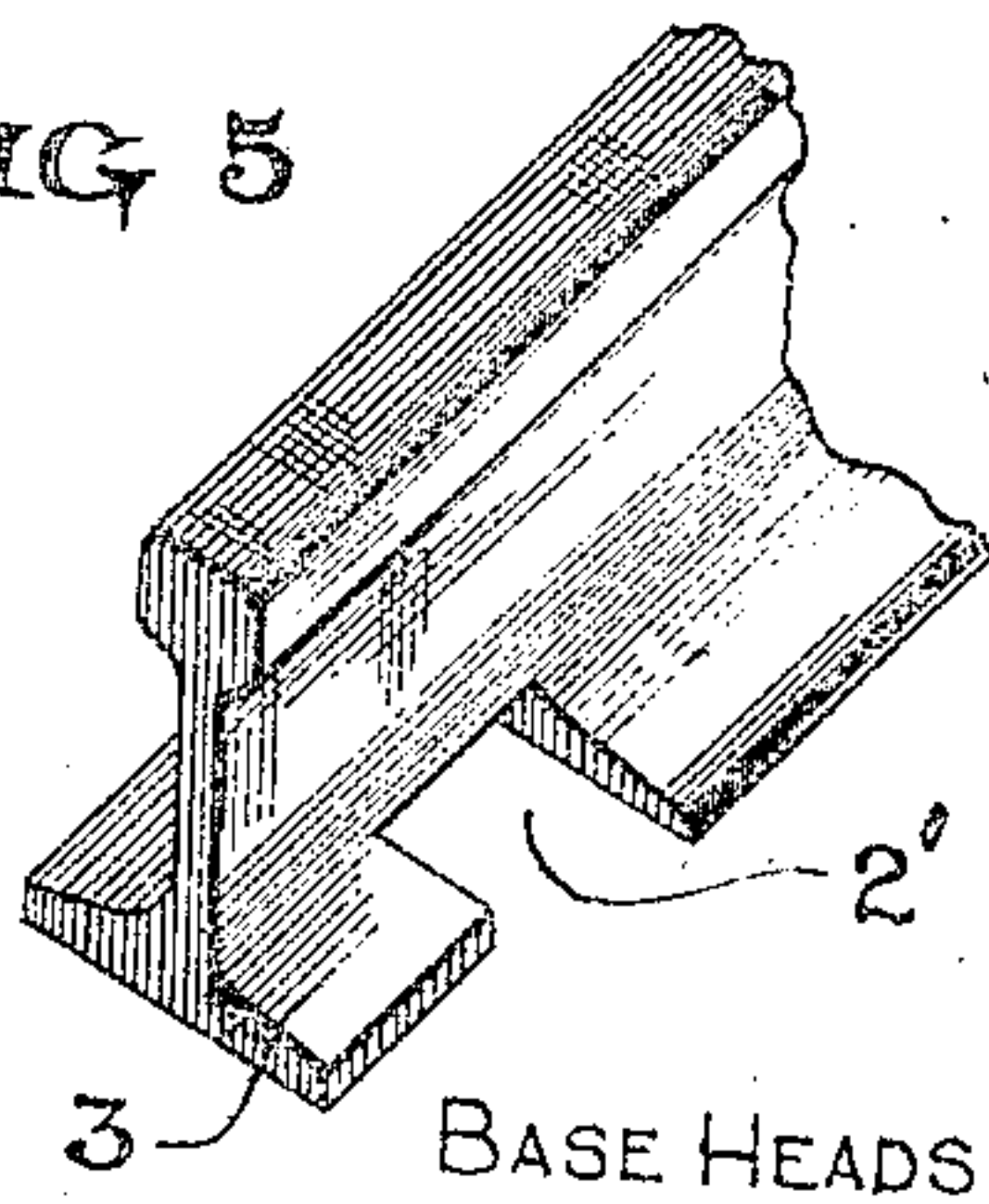


FIG. 5



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Witnesses  
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# UNITED STATES PATENT OFFICE.

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## RAIL-JOINT.

No. 898,854.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed March 23, 1908. Serial No. 422,723.

*To all whom it may concern:*

Be it known that I, JOHN A. EICHOLZ, a citizen of the United States of America, residing at Homestead, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Rail-Joints, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a rail joint, and the objects of my invention are, first, to provide positive and reliable means for connecting the confronting ends of rails without the use of nuts and bolts; second, to obviate the necessity of using splice bars as a connecting medium between two rails; third, to provide a novel rail chair which will prevent lateral displacement of the confronting ends of two rails; fourth, to provide a simple and inexpensive rail joint that can be installed without the use of skilled labor.

I attained the above objects by a rail joint that will be presently described in detail and then specifically pointed out in the appended claims.

Referring to the drawing forming a part of this specification; Figure 1 is a plan of a rail joint constructed in accordance with my invention. Fig. 2 is a side elevation of the same. Fig. 3 is an end view of a rail joint. Fig. 4 is a perspective view of a rail chair constructed in accordance with my invention. Fig. 5 is a perspective view of the end of a rail cut and sheared to be connected by my chair, and Fig. 6 is a perspective view of a modified form of rail chair.

In the accompanying drawings, A designates rails having their base flanges cut away, as at 2' to provide base heads 3 for interlocking said rails in my improved rail chair.

The rail chair comprises a base plate 1 having a central oblong opening 2, to receive the base heads 3 of the rails A. The base plate 1 at the sides of the opening 2 is provided with spike notches 4, whereby spikes 5 can be employed for holding the base heads 3 in the opening 2. The ends of the chair are provided with rail braces 6 for embracing that

portion of the web of said rails above the cut away portion 2' of the rail base. Besides the braces 6, the chair is provided with end extensions 7 for engaging the edges of the base of each rail, and in conjunction with the base heads 3 preventing lateral displacement of said rails. The chair upon its longitudinal edges and contiguous to each end thereof is provided with spike notches 8 for spikes 9, said spikes in conjunction with the spikes 5 preventing lateral and vertical displacement of the chair upon the tie or sleeper 10. The construction of my rail chair permits of the ties or sleepers being laid in a horizontal plane, since the confronting ends of the rails A lie partly upon one of the ties or sleepers and partly upon the chair.

In Fig. 6 of the drawings, I have illustrated a slight modification of my invention wherein the chair is provided with double spike notches 4<sup>a</sup>, permitting of four spikes being used to secure the base heads in the chair.

It is thought that my invention will be fully understood from the foregoing description and while I have herein described and illustrated the preferred embodiments of my invention, I reserve the right to make such structural changes therein as are permissible by the appended claims.

Having now described my invention what I claim as new, is;—

1. In a rail joint, the combination with rails having their base flanges cut away to provide base heads, of a rail chair for connecting the confronting ends of said rails, said chair comprising a base plate having an oblong opening and oppositely disposed spike notches, said opening being adapted to receive the base heads of said rails, rail braces carried by the ends of said chair for embracing the webs of said rails at the cut away portions thereof, and end projections carried by said chair for engaging the edges of the bases of said rail, substantially as described.

2. In a rail joint, the combination of rails having their base flanges cut away to provide

base heads, a chair for engaging said base heads and retaining said rails together, said chair comprising a base plate having an opening extending therethrough to receive said base heads, rail braces carried by the ends of said chair, and means for securing said base heads in the opening of said base plate, the base flanges of said rails when in position

being in the same plane as the base plate of the chair.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN A. EICHOLZ.

Witnesses:

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