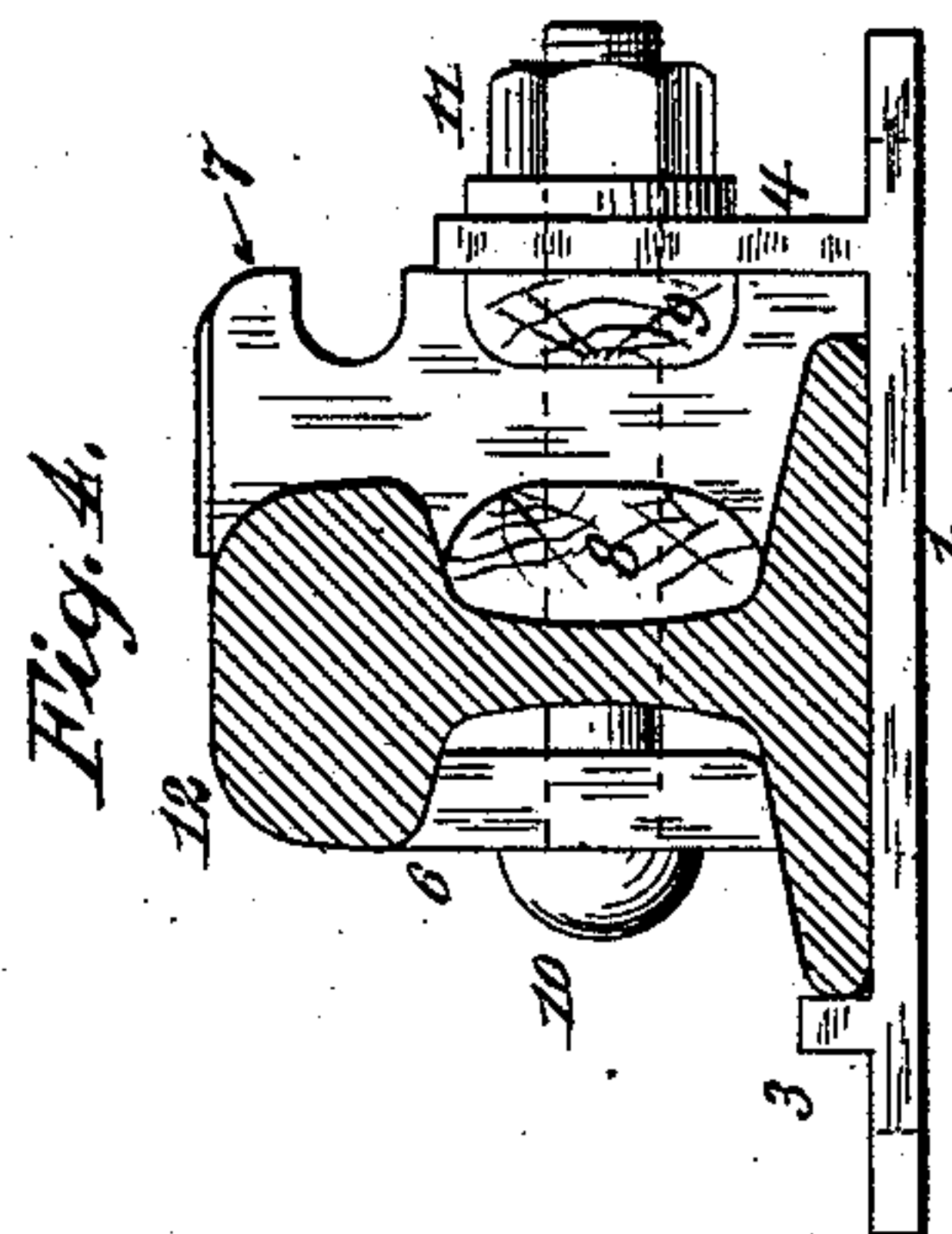
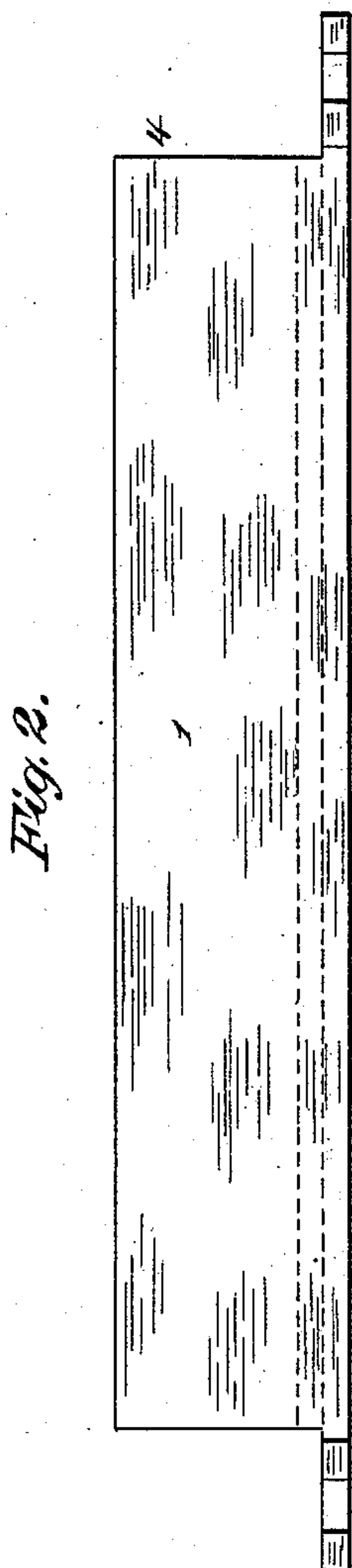
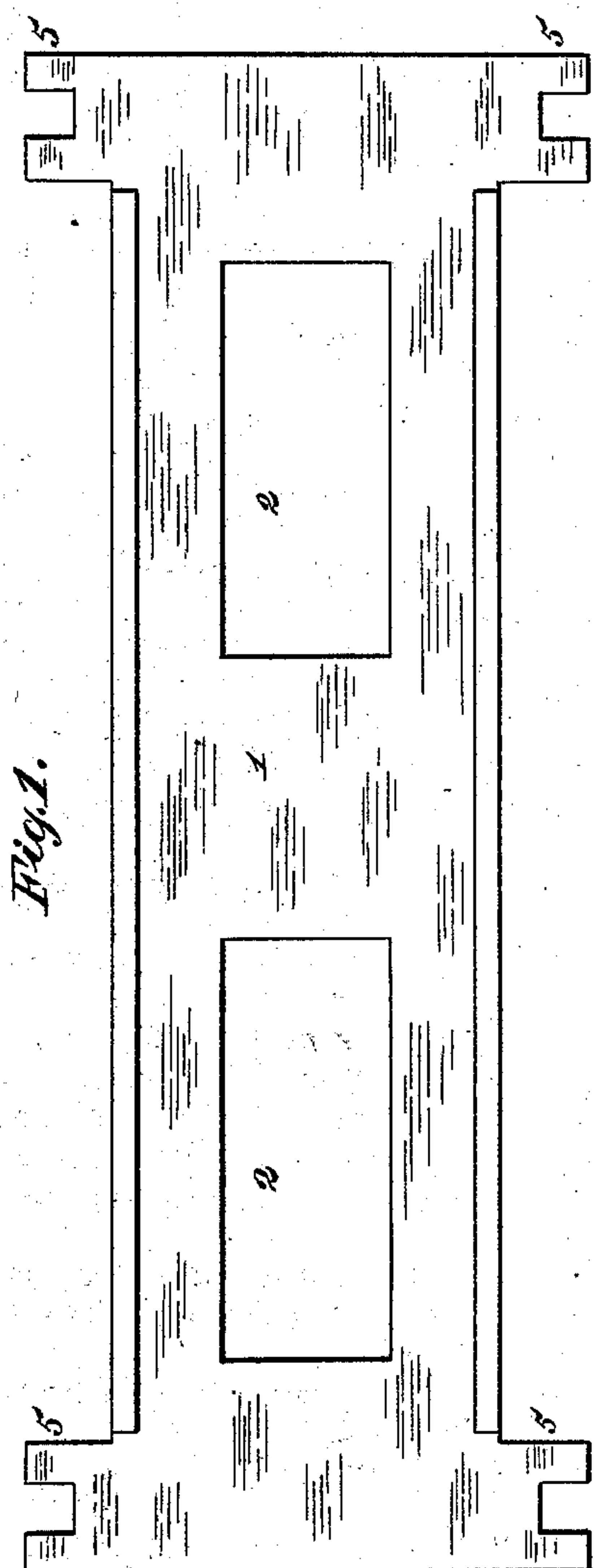
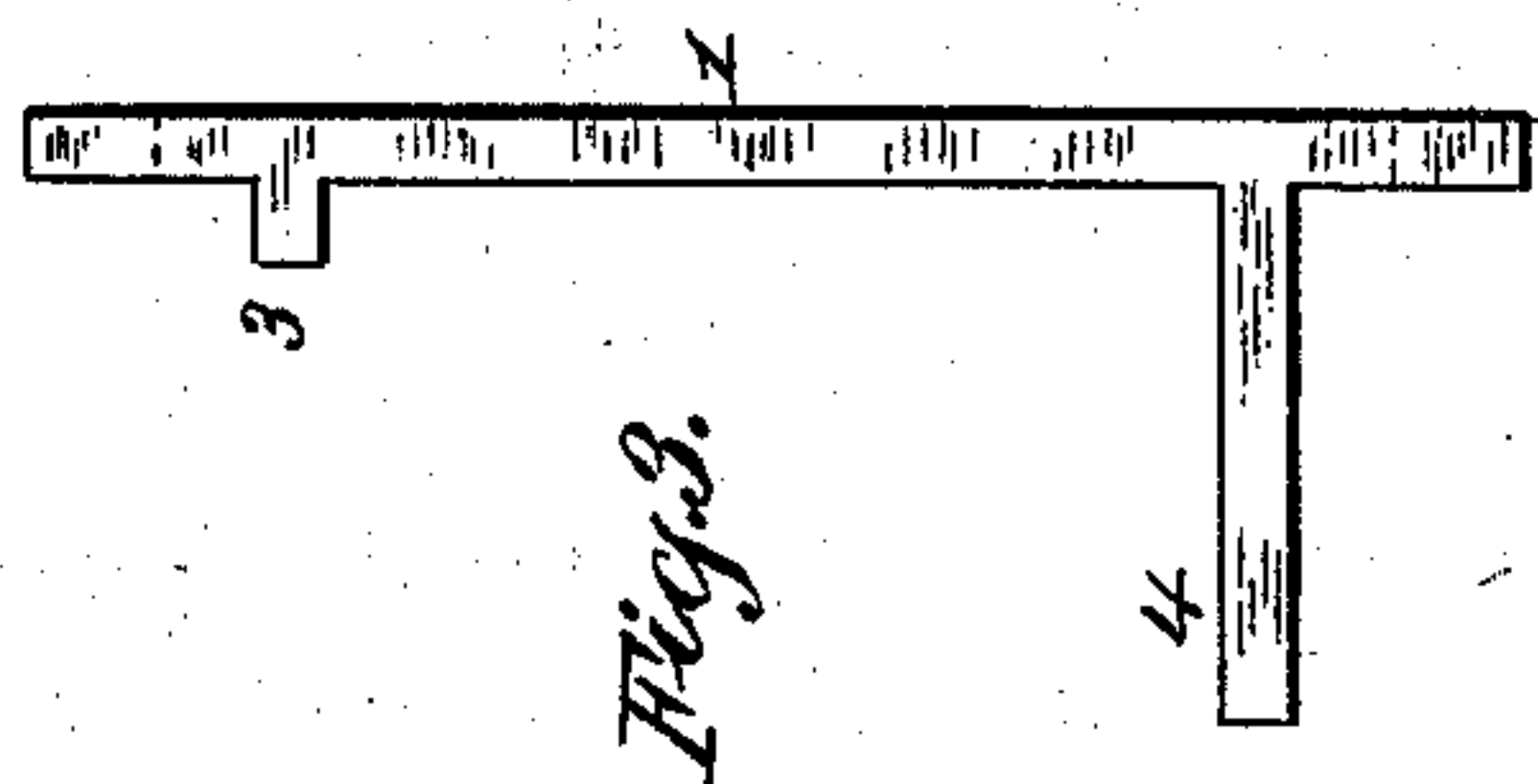


(No Model.)

G. A. WEBER.  
RAIL JOINT.

No. 402,372.

Patented Apr. 30, 1889.



Witnesses:  
D. W. Gardner,  
W. S. McArthur

Inventor:  
George A. Weber  
By his Attorneys,  
Jester & Freeman

# UNITED STATES PATENT OFFICE.

GEORGE A. WEBER, OF NEW YORK, N. Y., ASSIGNOR TO CAROLINE C. WEBER,  
OF SAME PLACE.

## RAIL-JOINT.

SPECIFICATION forming part of Letters Patent No. 402,372, dated April 30, 1889.

Application filed February 1, 1889. Serial No. 298,394. (No model.)

### *To all whom it may concern:*

Be it known that I, GEORGE A. WEBER, of the city, county, and State of New York, have invented a new and useful Improvement in Fish-Plates and Chairs for Rail-Joints, of which the following is a full, true, and exact description, reference being had to the accompanying drawings.

This invention relates to an improvement on the fish-plate and chair for which I have made application on the 30th day of March, 1888, Serial No. 268,950.

By this invention I am enabled to reduce the weight of the metal employed in making the chair and fish-plate, and make an elastic bearing between the fish-plate and rail, which I find to be important, both as a sound-deadener and as keeping the nuts tight against the bolts.

My invention will be readily understood from the accompanying drawings, in which—

Figure 1 represents a plan of my chair; Fig. 2, an elevation of the outside of the chair; Fig. 3, an end view of the chair; and Fig. 4, a section through the rail, showing the chair and fish-plates in position.

The chair 1 is of the general shape shown in Fig. 1, having openings 2 for lightness, and having lips 3 and 4 for retaining the fish-plates and rail in position. The chair itself is provided with bolting-lugs 5. Of the fish-plates the inner one, 6, is of any ordinary construction. The outer one, 7, is recessed, as at 8

and 9, the said recesses being filled with elastic packing, preferably of wood, as shown. The parts are locked together by bolt 10 and nut 11, as shown, the fish-plate 7 having its contour arranged to fit the rail, as shown, and resting against the rail by the elastic packing in chamber 8, while the packing in chamber 9 bears against the outer flange or lip, 4. In this way the rails are tightly locked together and all lost motion is prevented, the slight difference in expansion and contraction being taken up by the elastic packing.

As will be observed, fish-plate 7 continues the bearing-surface of the rail 12, and has its bearing-surface coextensive with the block itself.

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

The combination of the rail 12, fish-plate 6, fish-plate 7, having chambers 8 and 9, each filled with elastic packing, and the chair 1, having lips or flanges 3 and 4, the flange 4, extending over the elastic packing in chamber or recess 9, and the bolt 10, locking together the chair and fish-plates, substantially as described.

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

GEO. A. WEBER.

Witnesses:

H. COUTANT,  
ANTHONY GREF.