

(No Model.)

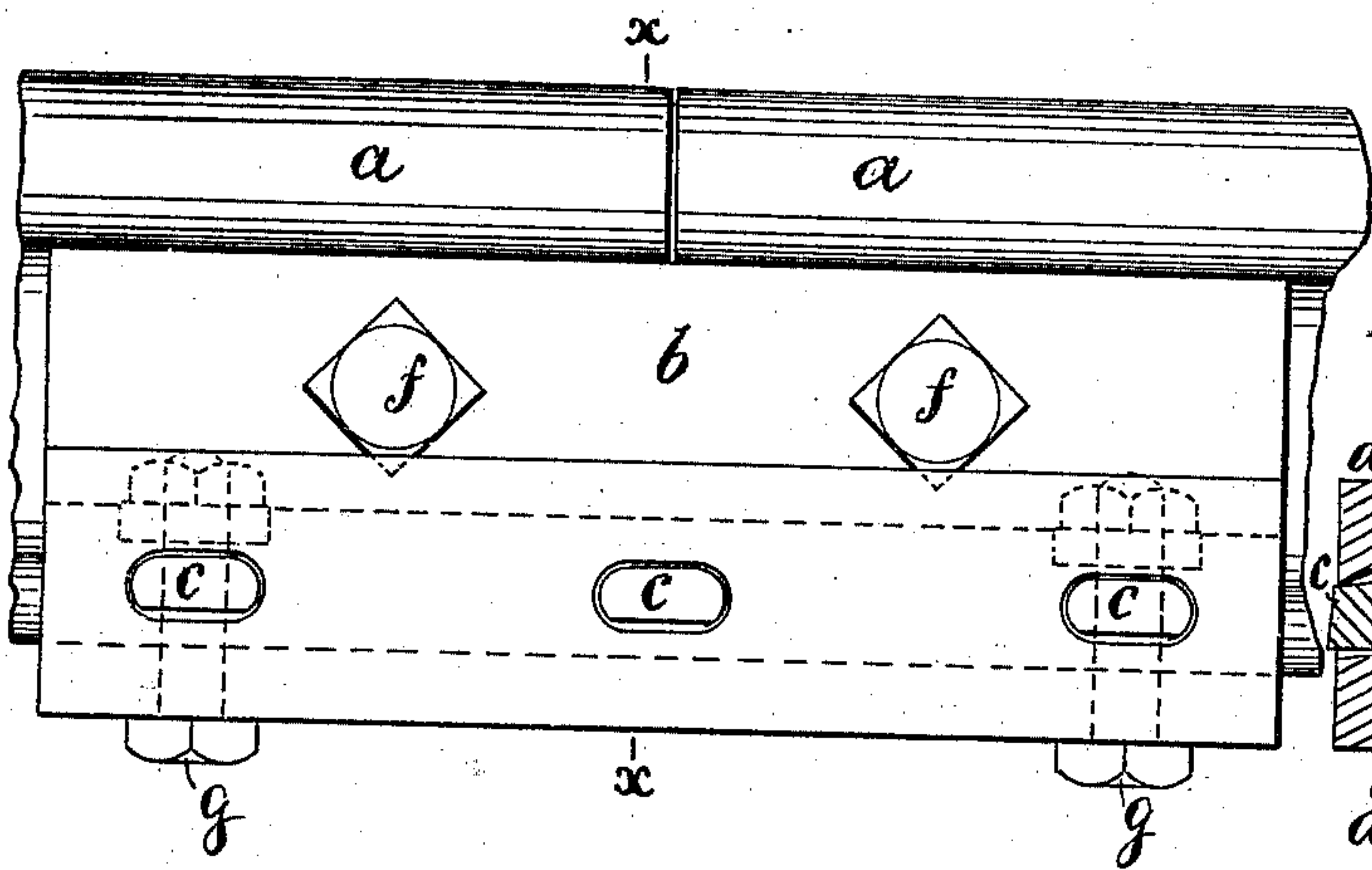
E. A. G. ROULSTONE.

RAILWAY RAIL JOINT.

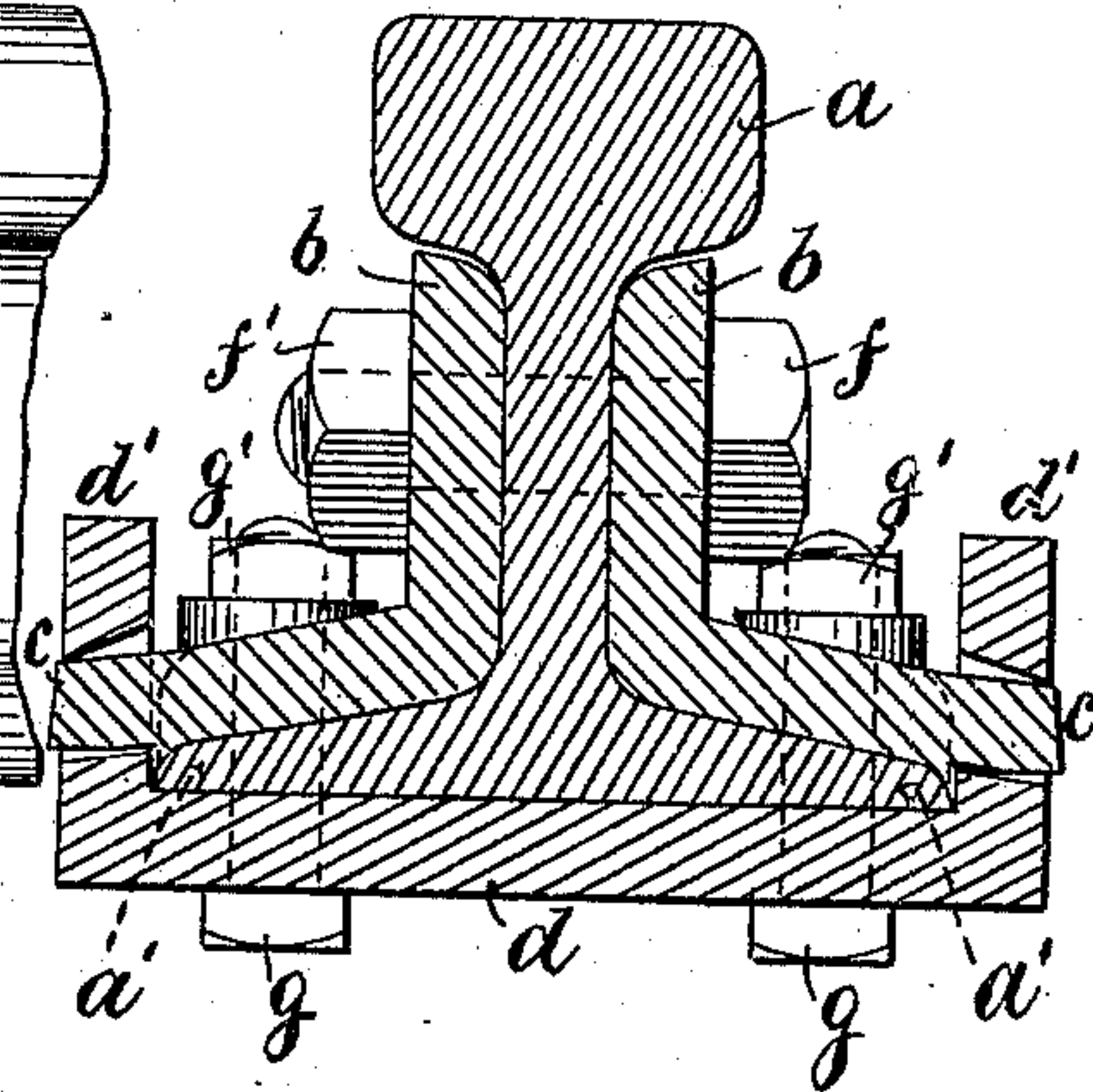
No. 313,110.

Patented Mar. 3, 1885.

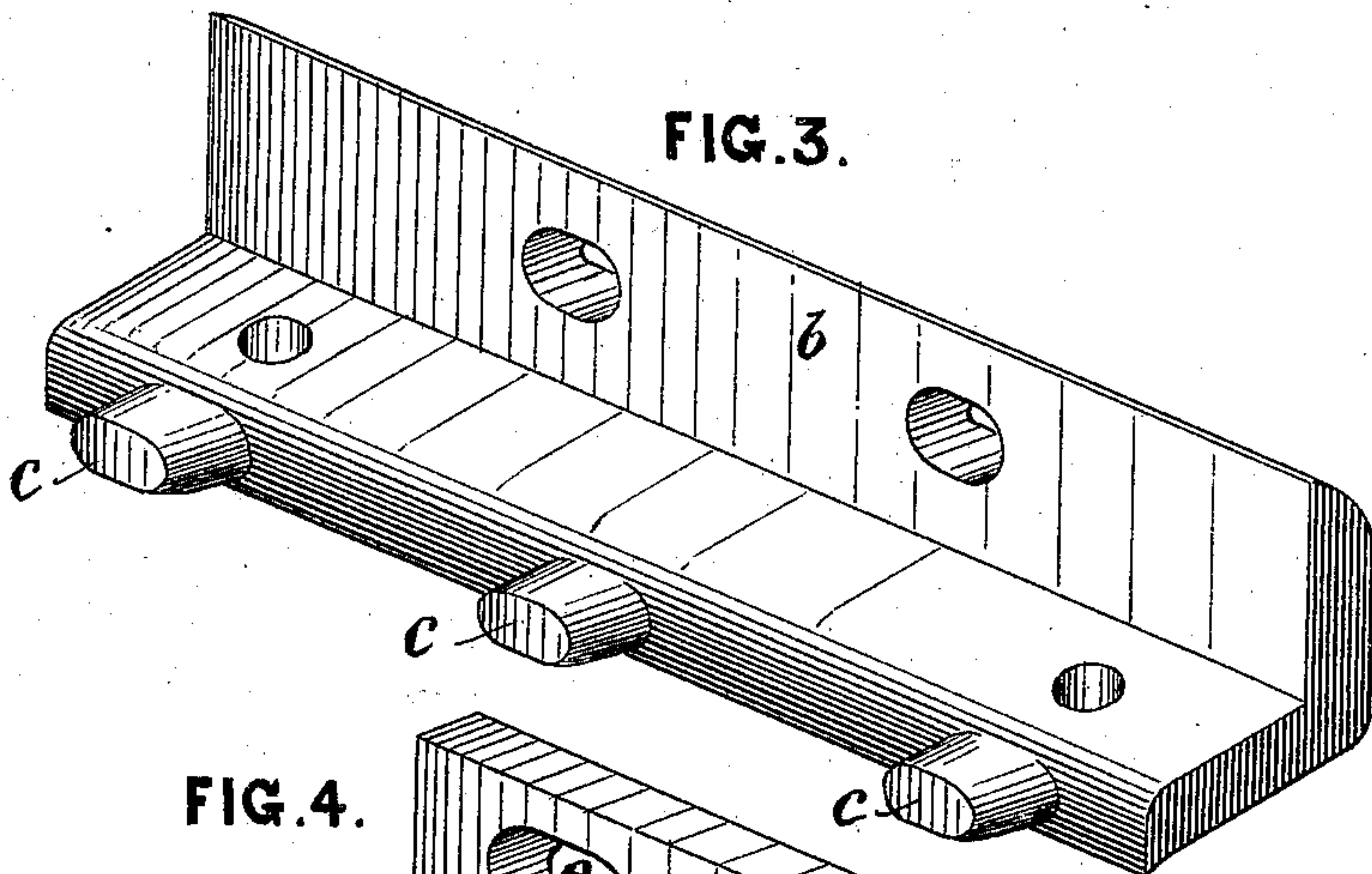
**FIG. 1.**



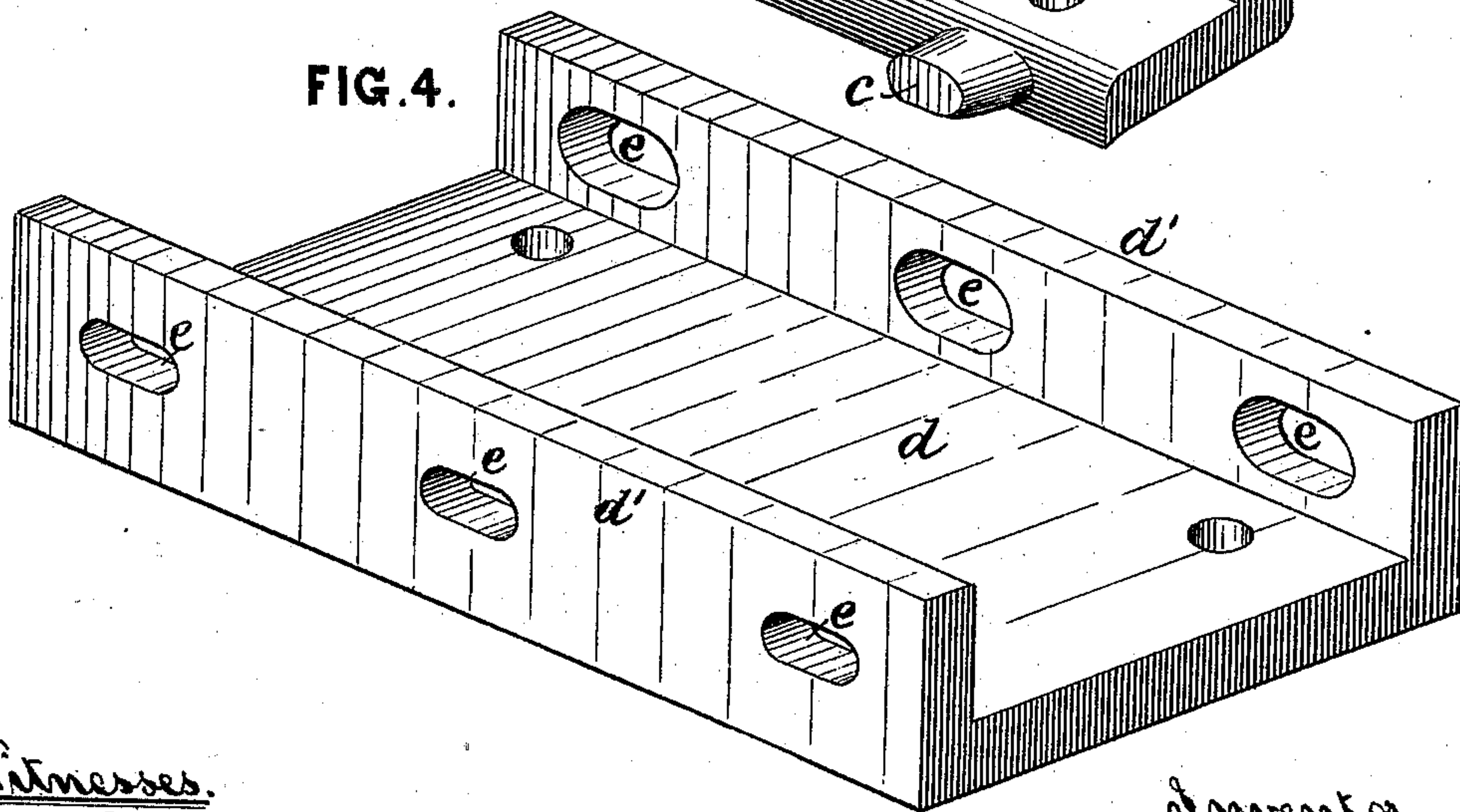
**FIG. 2.**



**FIG. 3.**



**FIG.4.**



Witnesses.

E. Planta.

Strandzoo

Inventor.

E. A. G. Roulstone

by J. H. Adams

Ртг.



# UNITED STATES PATENT OFFICE.

EDWARD A. G. ROULSTONE, OF BOSTON, ASSIGNOR TO ALPHONSO J. LIBBY,  
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## RAILWAY-RAIL JOINT.

SPECIFICATION forming part of Letters Patent No. 313,110, dated March 3, 1885.

Application filed February 4, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD A. G. ROULSTONE, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Railway-Rail Joints, of which the following is a specification.

The object of my invention is to produce a joint for railroad-rails by which I am enabled to attain a very firm bearing for the contiguous ends of the rails, and whereby the ends of the rails are prevented from a lateral or longitudinal movement.

The invention consists in the combination of a base-plate having upright rectangular flanges provided with holes, and fish-plates, one on each side of the rail, and having outwardly-extended flanges provided with lugs which fit in the holes in the upright flanges of the base-plate.

Referring to the accompanying drawings, Figure 1 is a side elevation of the ends of two railroad-rails with my invention applied. Fig. 2 is a transverse section of the same on the line *x x* of Fig. 1. Fig. 3 represents one of the fish-plates, and Fig. 4 the base-plate.

*a a* are the ends of two contiguous rails.

*d* is a base-plate, which may be of any desirable length, and is constructed with upright rectangular flanges *d' d'* on each side. Through the flanges *d' d'* are holes or slots *e e*.

*b b* are the fish-plates, having on the edges of their outwardly-extending flanges lugs *c c*, which fit into the holes *e e* in the upright flanges *d' d'* of the base-plate.

*g g g' g'* represent bolts and nuts, by which the fish-plates may be secured to the rail and base-plate.

The fish-plates are secured to the rails by means of bolts and nuts *f f'*.

My improved joint, it will be seen, is very simple, and can be readily applied to railroad-rails in common use. The rails are held firmly in position, and the joint is not liable to be affected by any strain upon the parts, and in case of any loosening of the parts they can be readily tightened, and in the event of damage to any of the parts they can be readily supplied by new ones, such parts being made interchangeable.

I do not claim a base-plate having upright rectangular flanges, as I am aware that such is not new; nor do I claim securing the fish-plates, rail, and base-piece together by means of bolts passing downward through each, and nuts; but

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

1. A fish-plate, *b*, having lugs *c c* projecting from the outer line of its base, in combination with the perforated upright sides of the base-plate, as and for the purpose set forth.

2. The combination, with the rails *a a*, of the base-plate having perforated upright flanges, the fish-plates *b*, having projecting lugs on their lower edges, and the bolt and nut *f f'*, substantially as and for the purpose set forth.

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

EDWARD A. G. ROULSTONE.

Witnesses:

JOS. H. ADAMS,  
E. PLANTA.