

R. C. BLACKALL.
Railway Rail Chair.

No. 95,555.

Patented Oct. 5, 1869.

Fig. 2.

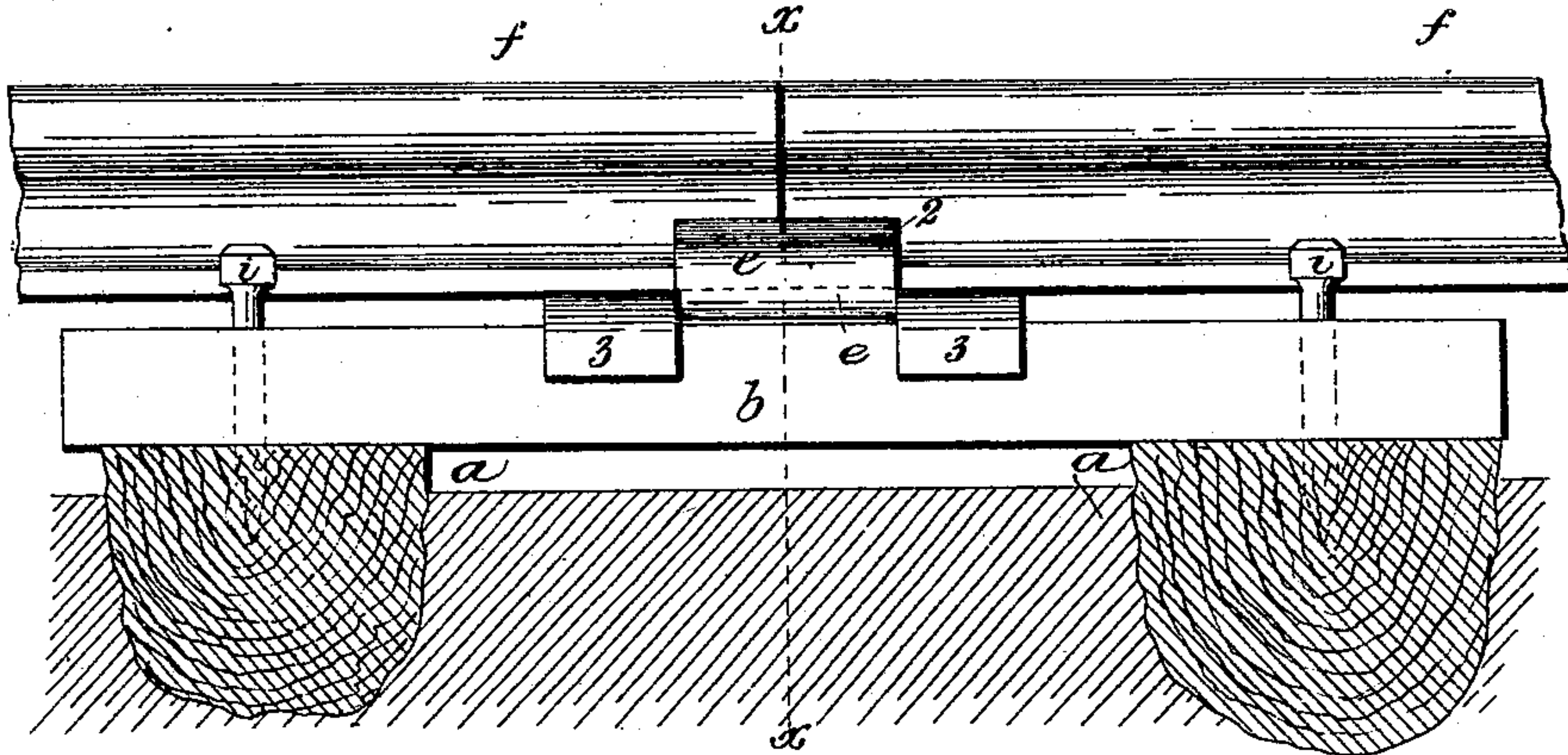


Fig. 1.

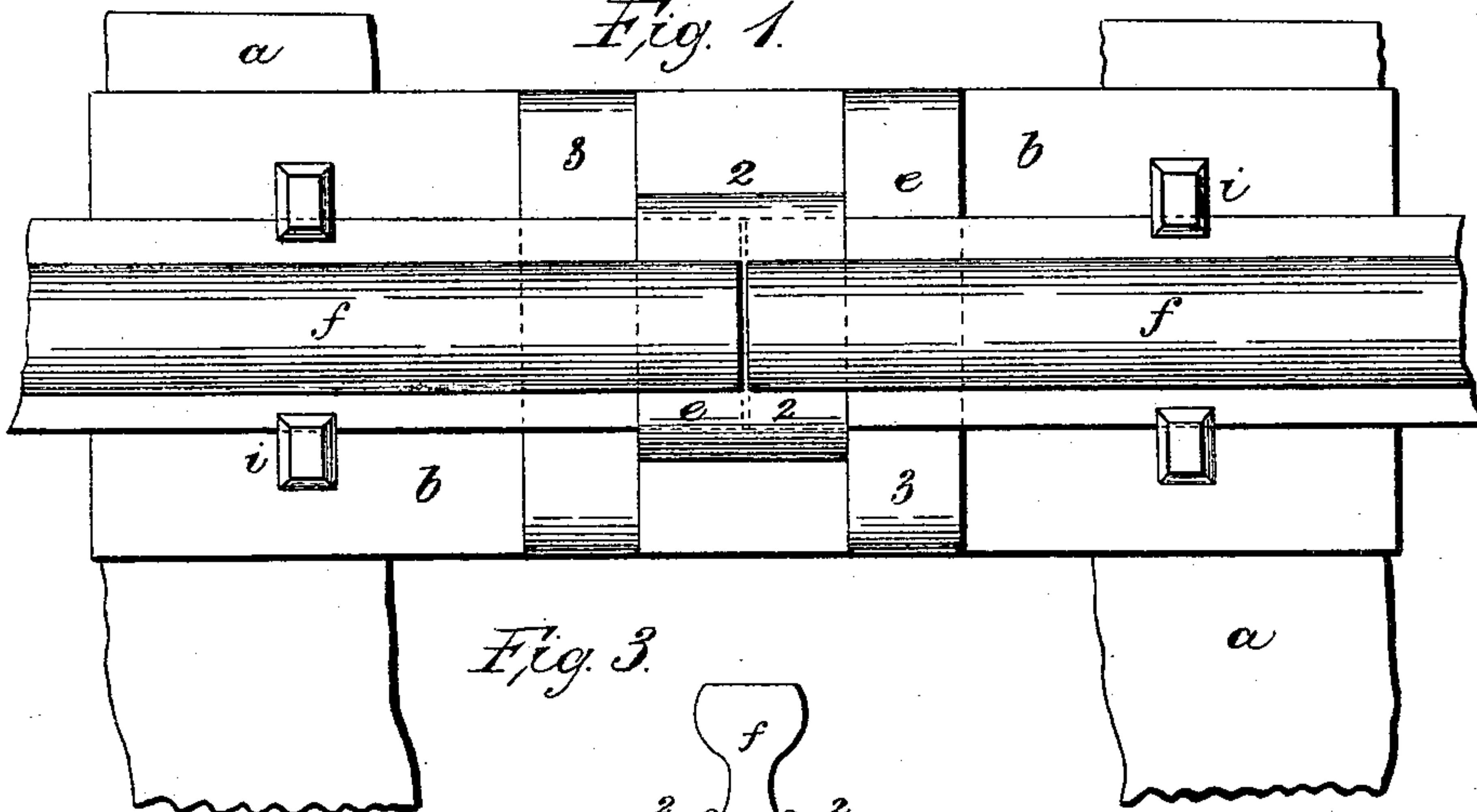
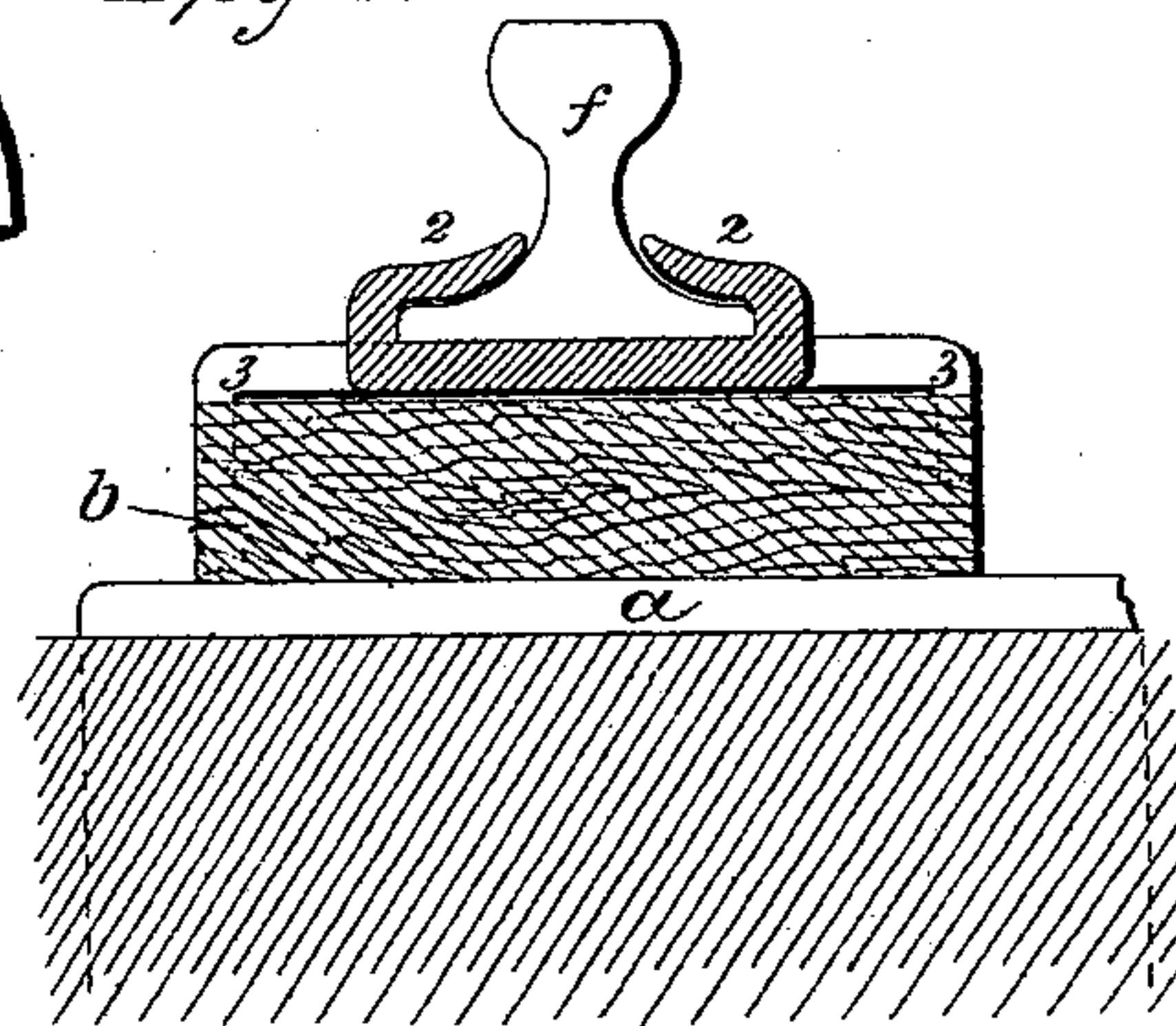


Fig. 3.



Witnesses:
Geo. A. Walker
Chas. H. Smith.

Inventor:
Robert C. Blackall.
per L. W. Ferrell *Atty*

United States Patent Office.

ROBERT C. BLACKALL, OF ALBANY, NEW YORK.

Letters Patent No. 95,555, dated October 5, 1869.

IMPROVED RAILWAY-RAIL CHAIR.

The Schedule referred to in these Letters Patent and making part of the same.

To all to whom these presents may come:

Be it known that I, ROBERT C. BLACKALL, of Albany, in the county of Albany, and State of New York, have invented and made a new and useful Improvement in Joint-Chairs for Railroad-Bars; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a plan of the joint-chair, support, and rail;

Figure 2 is a side view of the same parts; and

Figure 3 is a cross-section at the line *x x*, fig. 2.

Similar letters denote the same parts.

The object of this invention is to sustain the joint at the ends of the rail, by a slightly-yielding support, so that there will be less concussion at the ends of the bars from the passing wheels.

I accomplish this object by the use of a wrought-iron chair that grasps the ends of the rail and sits upon a plank that bridges the space between two cross-ties; thereby the ends of the rail are supported, but there is a slight yielding of the plank-bridge to the passing weight, so as to relieve the rails from concussion.

In the drawing, *a a* represent cross-ties, of usual character. Upon these the bridge-plank *b* rests, and sustains, near the middle, the joint-chair *e*.

This joint-chair *e* is made with lips, 2 2, that turn over and grasp the flanges of the rails *f*, and with flanges 3 3, turned downward at the sides of the bridge-plank *b*.

The edges of the bridge-plank *b* are made with recesses for receiving the flanges 3 3, so that said flanges prevent the joint-chair *e* moving either laterally on the plank *b*, or in any other direction.

The bridge-plank *b* is to be secured to the ties *a* by the spikes *i*, which may also hold the flanges of the rails *f*, as shown.

It will now be understood that the joint-chair grasps the rails, holding them firmly at their ends. It also connects with the bridge-plank, and said bridge-plank forms a slightly-yielding support to the ends of the rails, preventing the concussion heretofore usual.

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

The joint-chair *e*, formed with the lips 2 2 and flanges 3 3, in combination with the bridge-plank *b*, substantially as set forth.

In witness whereof, I have hereunto set my signature, this 25th day of June, A. D. 1869.

R. C. BLACKALL.

Witnesses:

W. A. SPRAGUE,
GEO. D. WALKER.