

R. Chambers.

Railroad Rail.

N^o 61,158.

Patented Jan. 15, 1867.

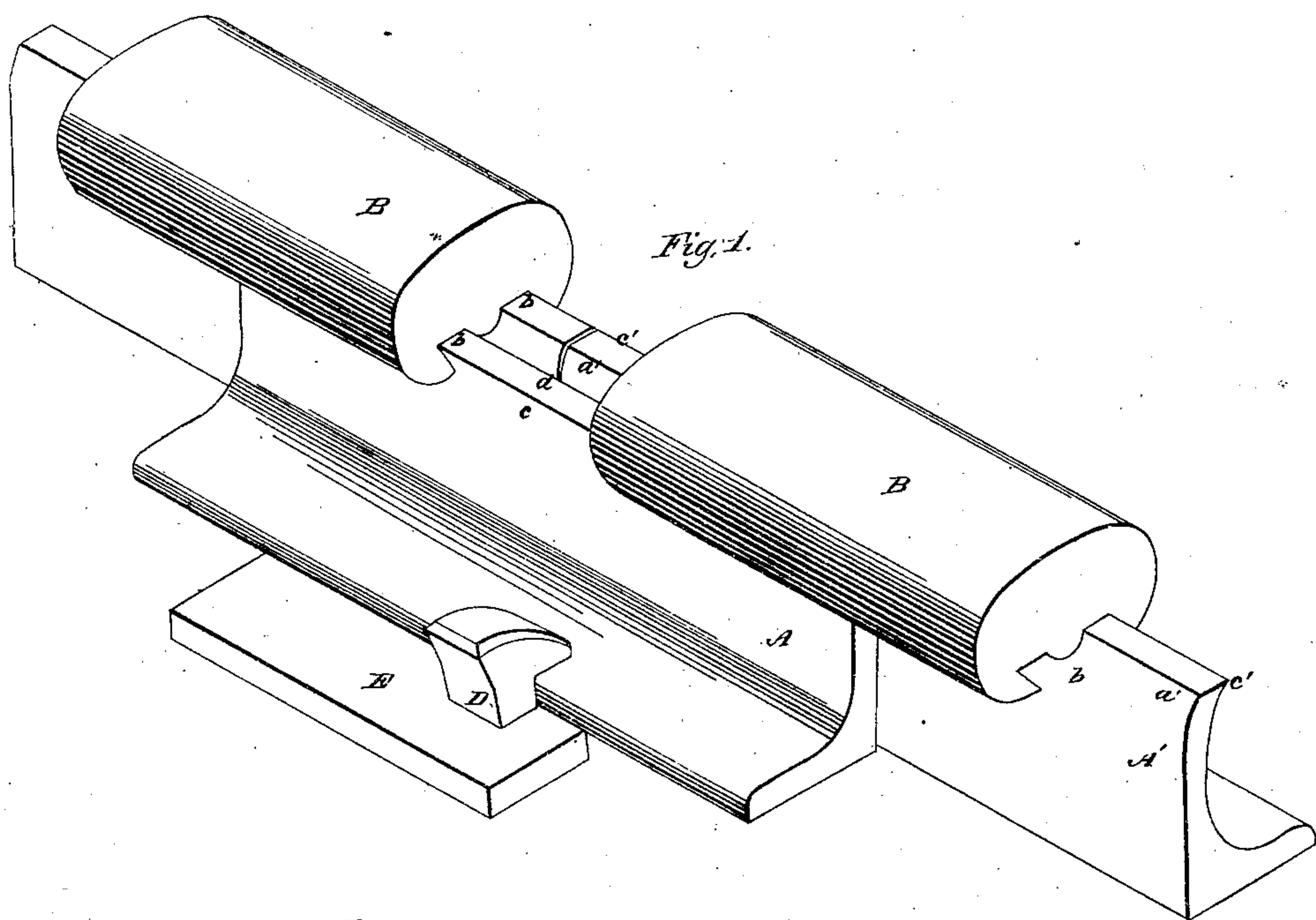


Fig. 1.

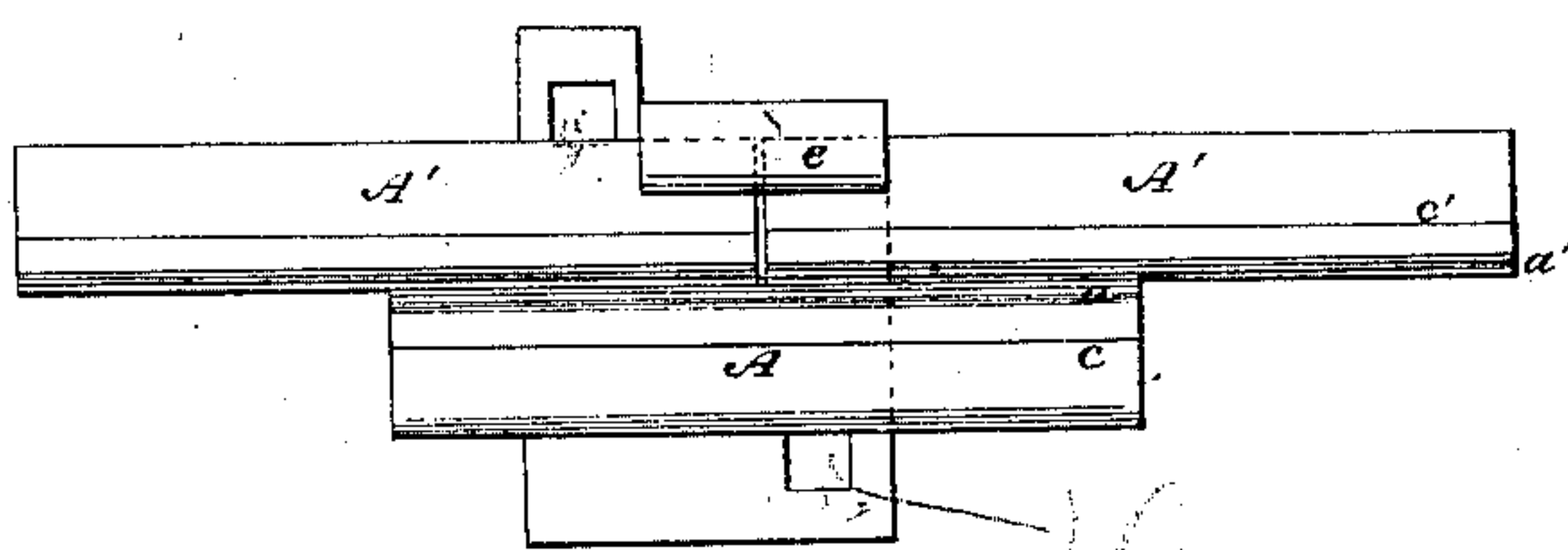


Fig. 2.

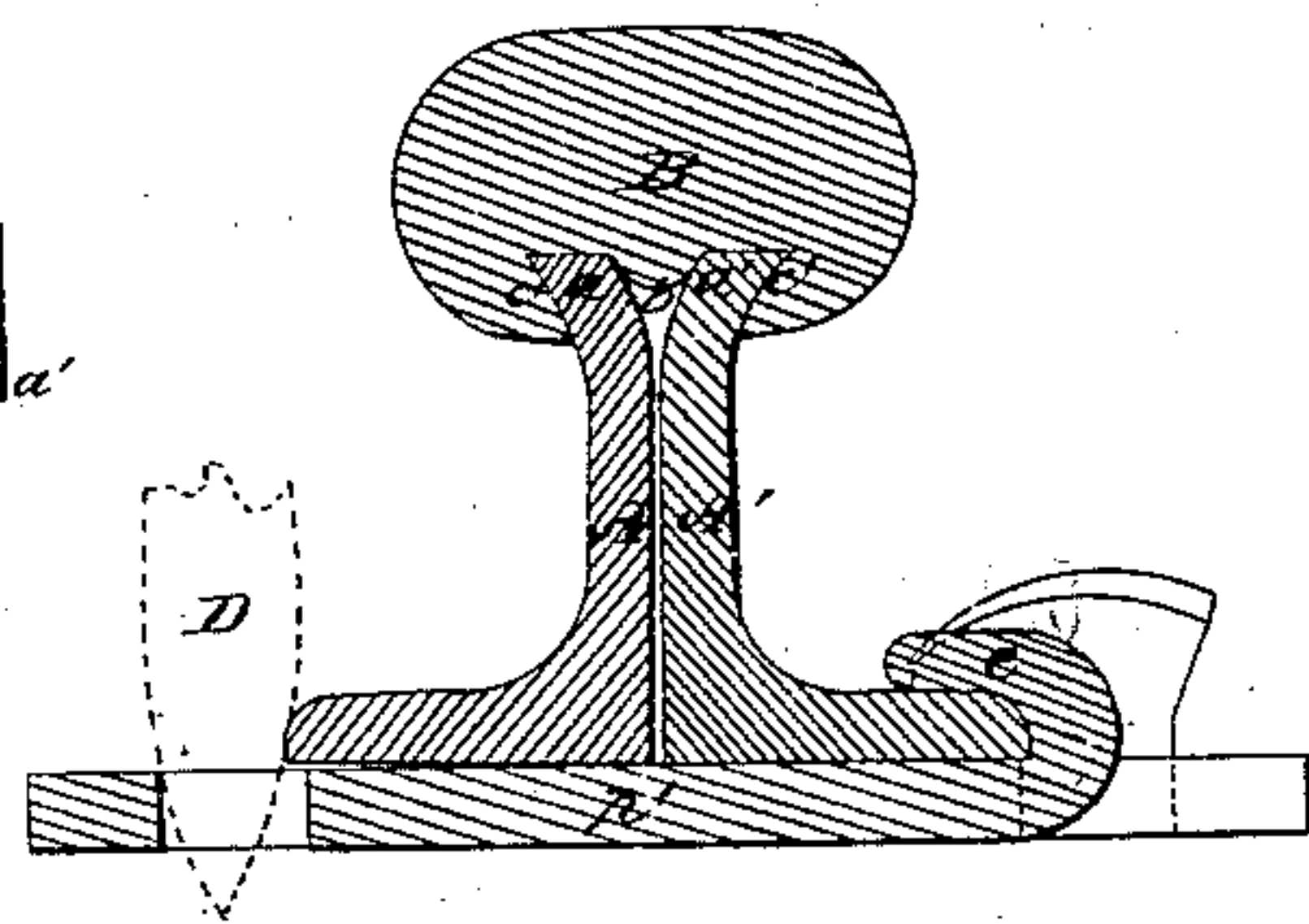


Fig. 3.

Witnesses.

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United States Patent Office.

ROBERT CHAMBERS, OF CINCINNATI, OHIO.

Letters Patent No. 61,158, dated January 15, 1867.

IMPROVED RAILROAD RAIL.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ROBERT CHAMBERS, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Railroad Rails; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to a mode of constructing a railroad rail in several pieces in such a manner as to lock the whole together in one continuous track, free from liability to either vertical or lateral projection at the joints, and capable of being renewed from time to time at its upper portion as the latter wears.

Figure 1 is a perspective view of portions of a compound rail embodying my invention.

Figure 2 is a top view of the same.

Figure 3 is a transverse section.

My improved rail consists essentially of three parts or sections, of which the parts A and A' of precisely similar form constitute the base or web of the rail, while the part B forms the cap. The inner sides, *a a'*, of the webs A A' are slightly convex in their transverse section. The outer sides, *c c'*, have the represented flaring or dove-tailed form to enter a corresponding under-cut groove, *b*, which extends along the entire length of the under side of the cap B. E represents a form of chair used in combination with the above, the tip, *e*, of the chair acting in conjunction with the spike D on the other side to press the two heels of the web together, and thus to expand the top, thus causing the latter to lock securely within the groove *b* on the principle of a "lewis." The parts A A' B are of course so arranged as to break joint with each other. The cap B may be of steel, semi-steel, or of case-hardened or cold-rolled iron, while the webs A A' may be of comparatively inferior material.

I claim as new, and of my invention—

1. The compound railroad rail A *a c*, A' *a' c'*, B *b*, secured or locked together by the same spike or spikes which fasten the rail to the sleeper or cross-tie, substantially as set forth.

2. In combination with the aforesaid compound rail, I claim the single-lipped chair E *e*.

In testimony of which invention I hereunto set my hand.

ROBERT CHAMBERS.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.