

No. 638,760.

Patented Dec. 12, 1899.

F. H. RAPLEY.
RAIL CHAIR.

(Application filed May 31, 1898.)

(No Model.)

Fig: 1

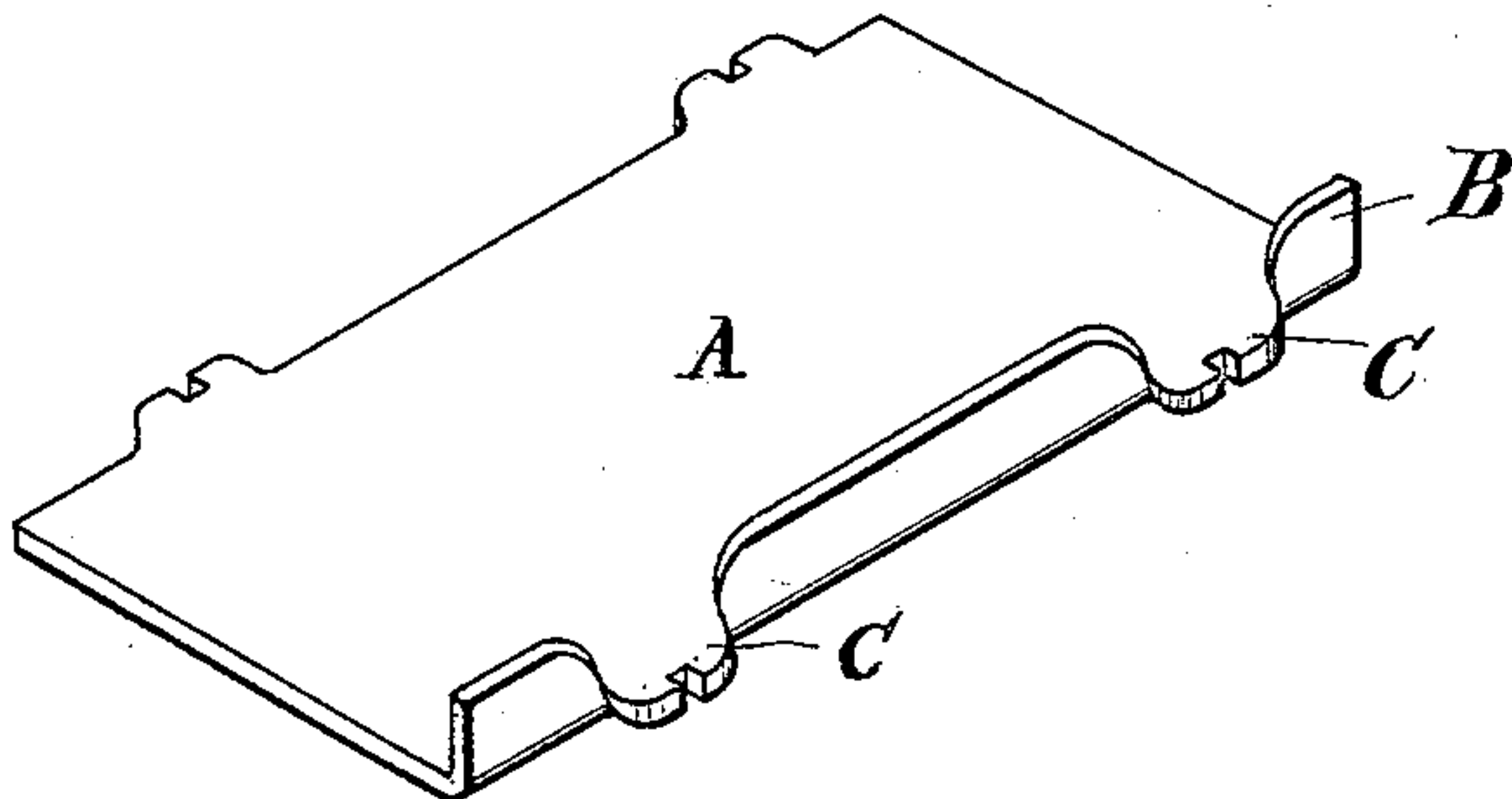


Fig: 2.

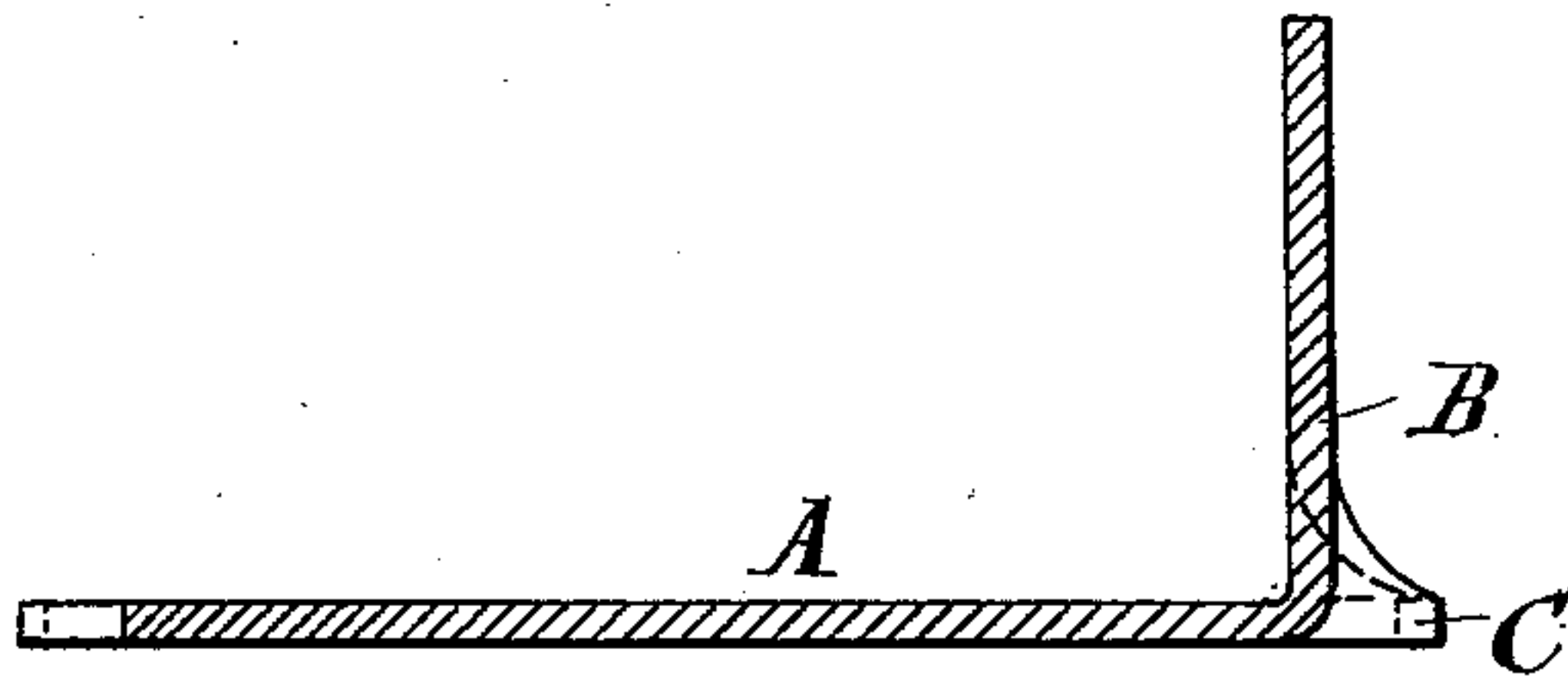
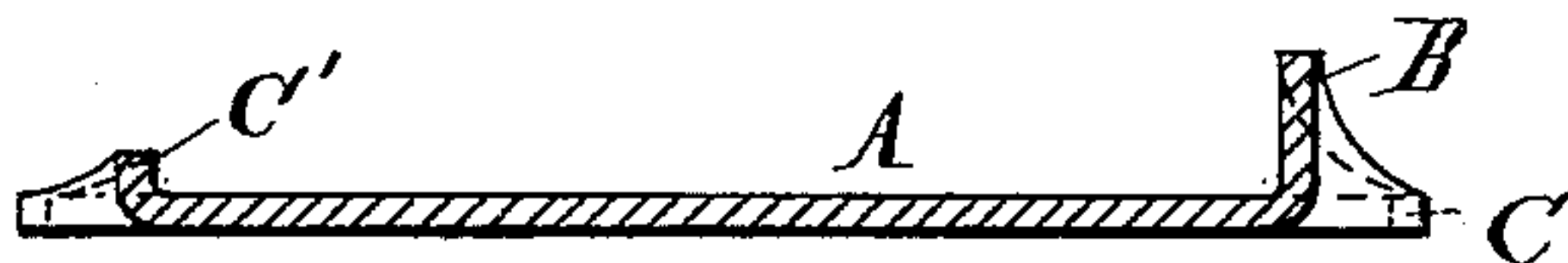


Fig: 3



Fig: 4



Witnesses
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UNITED STATES PATENT OFFICE.

FREDERICK H. RAPLEY, OF NEW YORK, N. Y., ASSIGNOR TO THE FOX
PRESSED STEEL EQUIPMENT COMPANY, OF SAME PLACE.

RAIL-CHAIR.

SPECIFICATION forming part of Letters Patent No. 638,760, dated December 12, 1899.

Application filed May. 31, 1898. Serial No. 682,145. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK H. RAPLEY, of the city, county, and State of New York, have invented a certain new and useful Improvement in Rail-Chairs, of which the following is a specification.

My invention relates to a rail-chair that is made from pressed steel.

I will describe a chair embodying my invention and then point out the novel features in the claims.

In the drawings, Figure 1 is a perspective view of a rail-chair. Fig. 2 is a transverse sectional view thereof. Fig. 3 is a transverse sectional view of a modified form of chair. Fig. 4 is also a transverse sectional view of still another modified form of chair.

Similar letters of reference refer to corresponding parts in all of the figures.

A represents the base of the chair, upon which the ends of the rail rest; B, a flange extending upwardly from one side of the base, and C lugs or projections on the base, by which the chair is secured to the ties. In Figs. 1 and 2 the flange B is sufficiently high to serve as a means for supporting the bolts which attach the fish-plates to the ends of the rails. In Fig. 3 the flange B is not as high as the flange B of Fig. 2. In Fig. 4, in addition to the flange B, I have shown a short flange C' on the other side of the base, which is for the purpose of retaining insulation on the chair when the chair is used in an insulated rail-joint.

The chair is formed from a blank of mild steel. The blank is then heated and placed

over a female die and the male die brought down upon the sheet to press it. The parts of the die are of such a formation that the longitudinal sides are turned upward to form the flanges B and C' without in any manner disturbing the metal which forms the lugs or projections C. In the form shown in Fig. 4 the flange C' is machined or otherwise treated to reduce its height. In the forms shown in Figs. 2 and 3 the parts of the die are made so that only the flange B will be formed. After the blank is pressed into shape the lugs are cut to receive an attaching-spike.

What I claim as my invention is—

1. A rail-chair of pressed steel comprising a base, lugs provided on the opposite sides of said base and intermediate the ends thereof, and an upwardly-projected flange extending from end to end on the side of said base, said flange being interrupted or cut away where the said lugs are provided.

2. A rail-chair of pressed steel comprising a base, a vertically-projected flange extending along one side of said base, cut-away areas within the ends of said flange, and lugs or projections formed upon the sides of said base, and corresponding to the said cut-away areas.

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

FREDERICK H. RAPLEY.

Witnesses:

ANTHONY GREF,
GEO. E. CRUSE.