

(No Model.)

A. J. MOXHAM.
RAIL CHAIR FOR RAILROAD RAILS.

No. 495,985.

Patented Apr. 25, 1893.

Fig. 1.

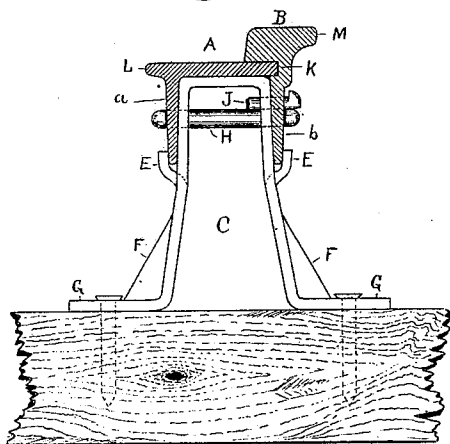


Fig. 2.

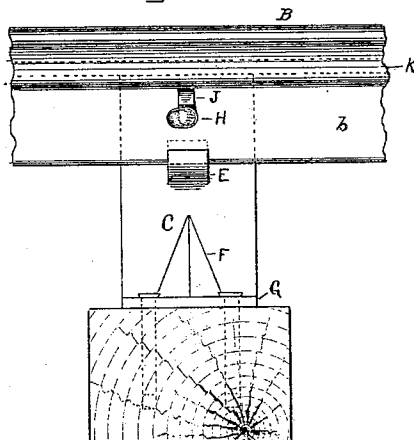
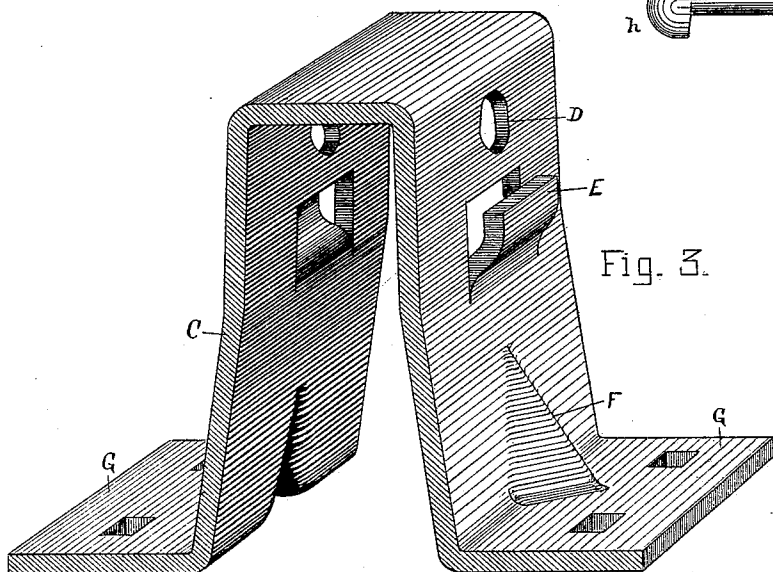


Fig. 4.



Fig. 5.

Fig. 3.



Witnesses:

John H. Kennedy.
Francis P. Reilly.

Inventor.

A. J. Moxham
by P. M. Voorhies
att'y

UNITED STATES PATENT OFFICE.

ARTHUR J. MOXHAM, OF JOHNSTOWN, PENNSYLVANIA.

RAIL-CHAIR FOR RAILROAD-RAILS.

SPECIFICATION forming part of Letters Patent No. 495,985, dated April 25, 1893.

Application filed April 2, 1889. Serial No. 305,650. (No model.)

To all whom it may concern:

Be it known that I, ARTHUR J. MOXHAM, of Johnstown, in the county of Cambria and State of Pennsylvania, have invented a new and useful Rail-Chair for Railroad-Rails, which invention is fully set forth and illustrated in the following specification and accompanying drawings.

The object of this invention is to provide a box-chair for a box girder-rail.

The invention will first be described in detail and then particularly set forth in the claims.

In the accompanying drawings Figure 1, shows a chair in end elevation, mounted on a cross-tie, and a rail, shown in cross-section, secured to the chair. Fig. 2, is a side-elevation of Fig. 1. Fig. 3, shows the chair alone, in perspective, enlarged. Fig. 4, shows, detached, a clip for securing the rail to the chair, and Fig. 5, a key to hold the clip in place.

In said figures, the several parts are indicated by reference letters as follows:—The box girder-rail is generally made in two parts, A and B, as shown, but may be made in but one piece of the same or equivalent shape, if preferred. The general exterior shape of the chair C, is in the usual box form: It is provided, however, with side keepers or lugs E, stamped out of the sides of its metal, to keep the lower edges of the webs of the rails, *a, b*, from spreading or "kicking out," said edges being seated and clamped between said lugs and the metal of the sides of the chair. When the rail is thus seated upon said chair with its webs seated and clamped as described, the long clip H is inserted through the holes D in the webs of the rail and chair, and, upon driving in the key J, on top of the clip, all the parts, both rail and chair are securely bound together. The clip and key may be replaced by a simple bolt and nut, if preferred. The holes D in the chair may be made as long or large as desired to provide for expansion—the clip heads neatly fitting the holes in the

webs of the rails only. The hole in the rail is shown elongated vertically, Fig. 2, to permit of the passage of the heads *h*, of the clip H, so that when the clip is turned with its shoulders horizontal, the body of the clip fits snugly in the hole leaving room above it for the driving home of the key J. The hole in the rail for the clip and key may, however, be elongated horizontally instead of vertically, if preferred.

The chair shown is preferably stamped out of rolled steel; though it could obviously be made of cast metal, if desired.

I do not herein claim the rail *per se* nor the clip H as an integral device but; as of my invention I claim—

1. A box-chair for girder-rails, having a top-surface forming a rail-seat, and provided with upturned retaining lugs located on the sides of the chair between its top and bottom, said lugs lapping over the sides of the webs of the rail and clamping said webs to the outer sides of the chair.

2. A box-chair for girder-rails, having a top-surface forming a rail-seat, and provided with upturned retaining lugs located on the sides of the chair between its top and bottom, said lugs lapping over the sides of the webs of the rail and clamping said webs to the outer sides of the chair; said chair being also provided with a hole, as D, through the sides of the same, for the purposes set forth.

3. The combination of a box-girder-rail; a box-chair having a top-surface forming a rail-seat, and provided with upturned retaining-lugs, formed on its sides between its top and bottom, said lugs lapping over the sides of the webs of the rail and clamping said webs to the outer sides of the chair; and a bolt or clip passing through the rail and chair and securing the same together; as set forth.

ARTHUR J. MOXHAM.

Witnesses:

A. MONTGOMERY,
W. McLAIN.