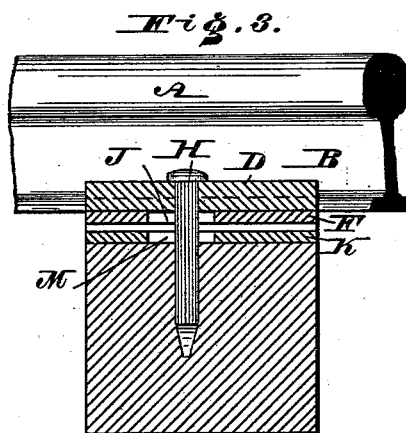
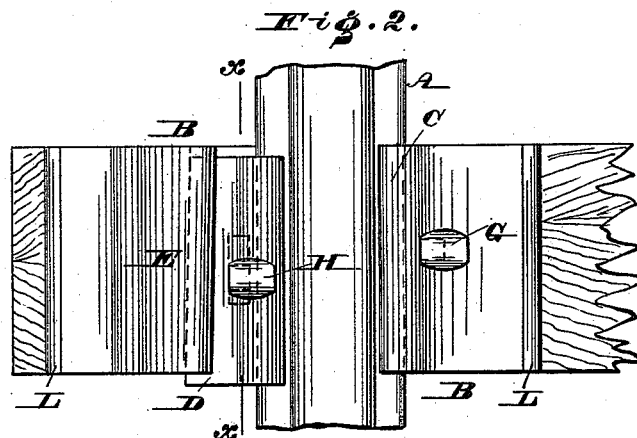
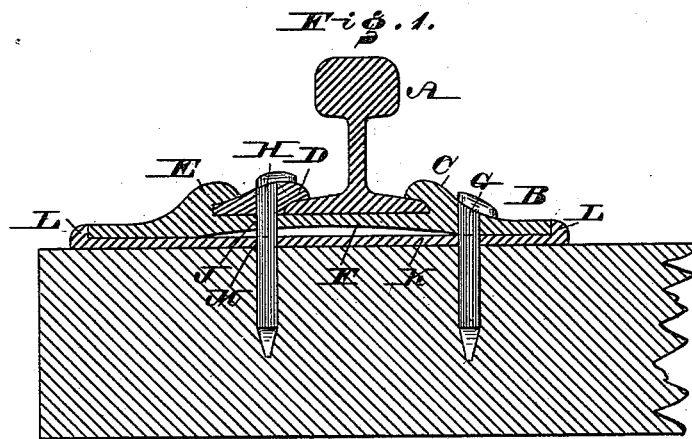


(No Model.)

G. W. RITTERSBACH.
RAILROAD CHAIR.

No. 420,167.

Patented Jan. 28, 1890.



Witnesses

Theo. Rolle
A. P. Jennings

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By his Attorneys
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UNITED STATES PATENT OFFICE.

GEORGE W. RITTERSBACH, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR
OF TWO-THIRDS TO ROBERT B. RITTERSBACH, OF SAME PLACE.

RAILROAD-CHAIR.

SPECIFICATION forming part of Letters Patent No. 420,167, dated January 28, 1890.

Application filed January 8, 1889. Serial No. 295,733. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. RITTERSBACH, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Railroad - Chairs, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to improvements in railroad - chairs; and it consists, first, in a movable cheek-piece with an opening therein and a chair with a longitudinally-elongated slot in its base below the opening of the cheek-piece.

It further consists of the combination of parts, as herein set forth and claimed.

Figure 1 represents a vertical section of a railroad-chair embodying my invention. Fig. 2 represents a top or plan view thereof. Fig. 3 represents a vertical section of a portion on line *x x*, Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a railroad-rail of usual form, and *b* designates a chair therefor, the same consisting of the cheek-piece C, which embraces one side of the base of the rail, the loose cheek-piece D, the fixed cheek-piece E, and the base F, said loose cheek-piece being fitted under the cheek-piece E and embracing the side of the base of the rail opposite to the cheek-piece C. The base F of the chair is raised or cut away on its under side, so that it is bowed, forming a spring on which the rail directly rests. In the cheek-piece C and sides of the base F are openings to receive the spike G, which is driven into the tie, as usual. In the cheek-piece D is an opening to receive the spike H, and in the side of the base below said opening is a longitudinally - extending slot J, through which said spike H is passed as driven into the tie. The cheek-piece D and contiguous side of the cheek-piece E are tapering or wedge-shaped, as most clearly seen in Fig. 2, it being evident that when the sev-

eral parts are in position the rail will be firmly and tightly held. Should, however, the chair become loose from any cause, the spike is withdrawn and the cheek-piece D driven up. The spike is again located and driven into the tie at a fresh place, this being permitted, owing to the slot J.

K designates an auxiliary base, which is employed as a support for the chair intermediate of said chair and the tie. The sides of said base are provided with lips L, which freely embrace the ends of the chair, and the portion of the base below the slot J is also provided with a longitudinally-extending slot M, similarly to said slot J, to permit the spike to pass through the same when the cheek-piece D is adjusted. As the base F of the rail yields when weight is superimposed thereupon, the ends of the rails are prevented from being battered, and noise thereof when struck by the wheel is obviated, the cars also riding easy on the rails, as is evident.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A railroad-chair having a movable cheek-piece with an opening to receive the spike and a base with a longitudinally-extending slot below said opening, substantially as described.

2. A railroad-chair having a bed with bowed base and fixed cheek-pieces and a loose cheek-piece fitting under one of the fixed cheek-pieces and embracing the side of the rail, said parts combined substantially as and for the purpose set forth.

3. A railroad-chair having a bed with fixed cheek-pieces C and D, a loose cheek-piece, and an auxiliary base with slot coinciding with a slot in said cheek-piece D and having lips adapted to embrace the ends of the chair, said parts being combined substantially as described.

GEORGE W. RITTERSBACH.

Witnesses:

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