

Thomas Donahy. Railroad Rail Chair.

No. 120,421.

Patented Oct. 31, 1871.

Fig. 1

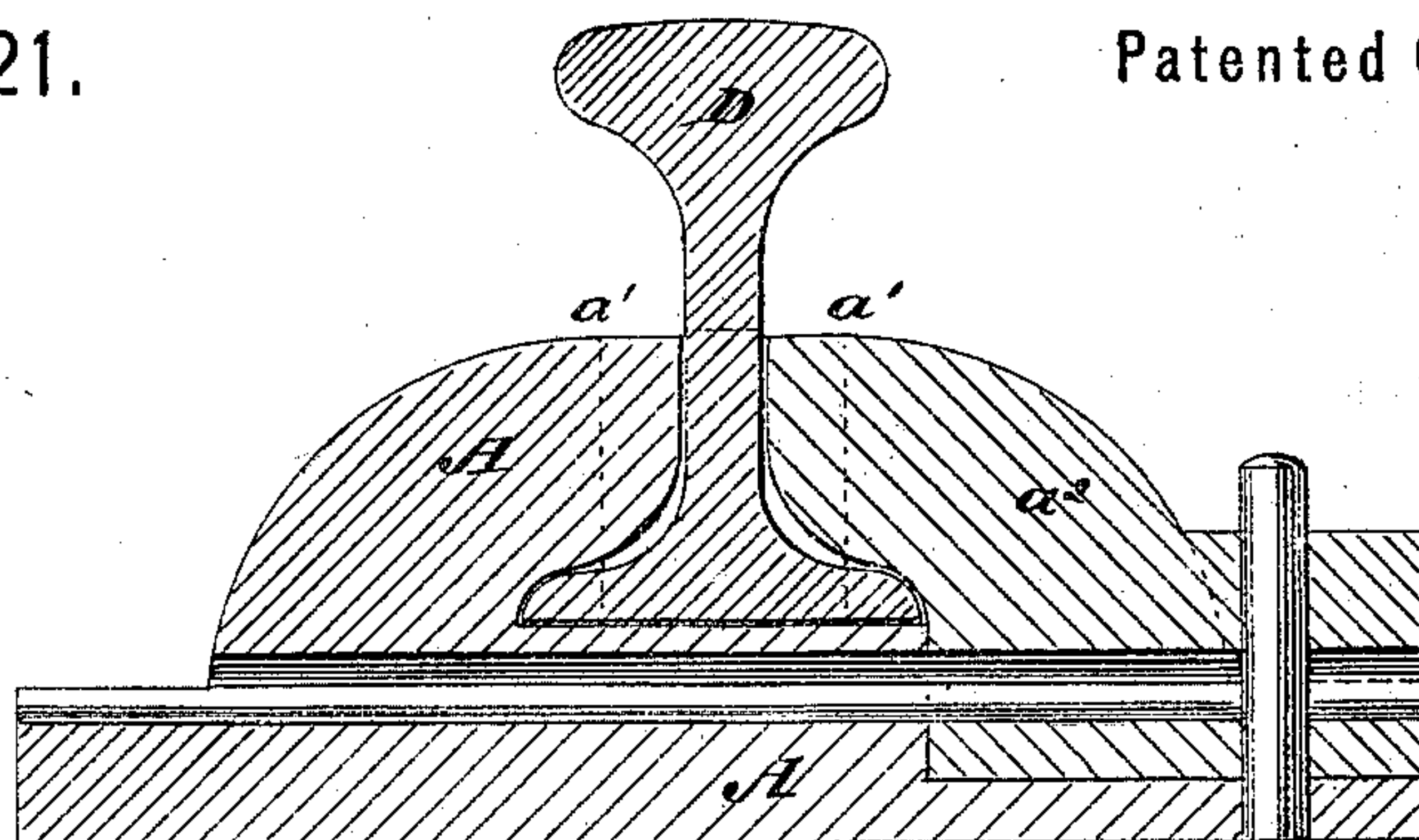
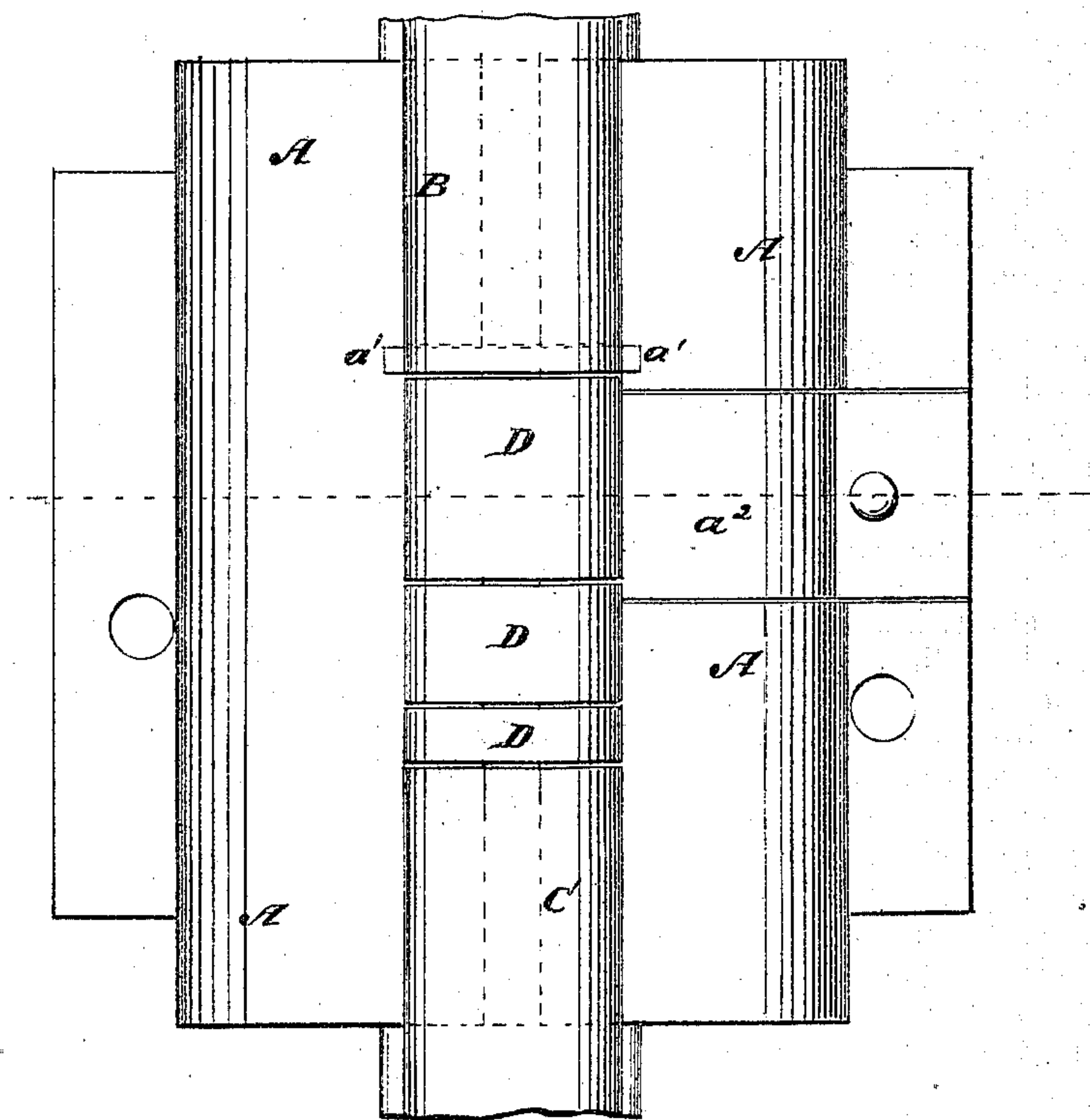


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

THOMAS DONAHY, OF EMPIRE CITY, NEVADA.

IMPROVEMENT IN RAILWAY RAIL-CHAIRS.

Specification forming part of Letters Patent No. 120,421, dated October 31, 1871.

To all whom it may concern:

Be it known that I, THOMAS DONAHY, of Empire City, in the county of Ormsby and State of Nevada, have invented a new and useful Improvement in Railroad Rail-Chairs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a vertical cross-section of my improved chair taken through the line *xx*, Fig. 2. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved railroad rail-chair designed for use the length of a rail from the switch-chair, to avoid the necessity of frequently cutting the rail to allow the switch to work; and it consists in the chair, constructed as hereinafter more fully described.

A represents the chair, into which the ends of the rails B C enter. a^1 is a bar or partition formed across the cavity of the chair A, near the end furthest from the switch, for the end of the rail B to rest against to prevent the said rail from being crowded toward the switch and thus interfering with its proper working. D are short sections sawn from a rail, and which are designed to be of different lengths—as, for instance, half an inch, an inch, an inch and a half, and two inches. These pieces are put in and taken out, when required by the contraction and expansion of the

rails, through an opening in the side of the chair, which opening is closed by a piece, a^2 . The piece a^2 is secured in place by a bolt passing horizontally through the base of the piece a^2 and through the base of the chair A; or by a spike passing vertically through the base of the piece a^2 and through the base of the chair and driven into the tie. By this construction, as the rails expand and contract one or more of the pieces D may be taken out and put in to keep the space between the rails B C properly filled, and at the same time to prevent the rail C from being pushed toward and crowding the switch-rail and thus interfering with its proper working. The chairs A are designed to be cast right hand and left hand, so that the detachable piece a^2 may always be upon the outer side of the rail.

If desired, the chair may be made with a right-hand and a left-hand opening, the bar or partition being between them to get the doubled length of extension and contraction, thus giving a greater scope for adjustment.

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

The chair A, constructed with an opening to receive blocks D between rails B C, and with a detachable piece, a^2 , in the side thereof, and with a stop, a^1 , so that said pieces D may be removed or inserted, in the manner described.

THOS. DONAHY.

Witnesses:

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(120)