

(No Model.)

D. N. COOK.
RAILWAY CHAIR.

No. 436,774.

Patented Sept. 23, 1890.

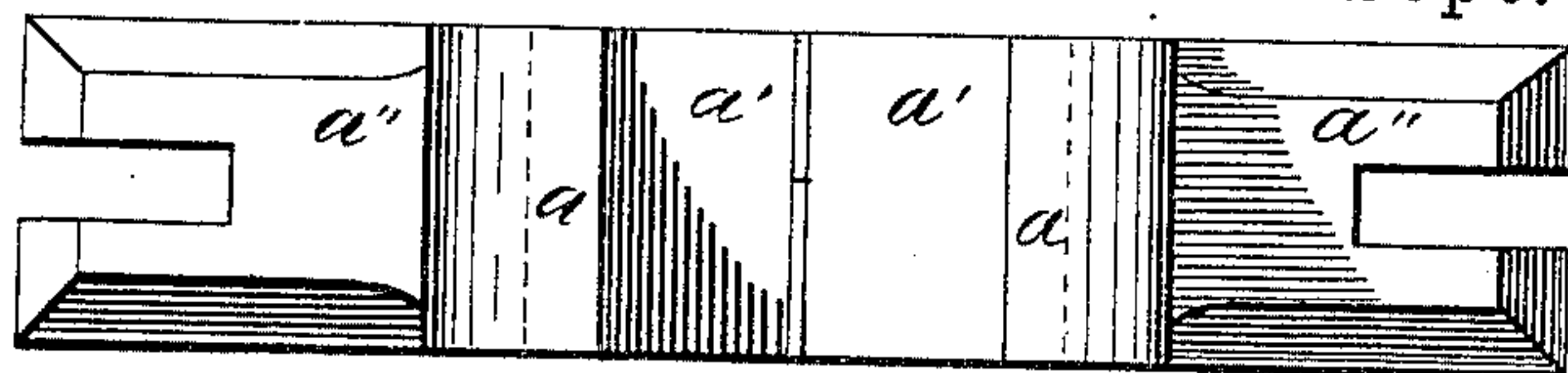


Fig. 2.

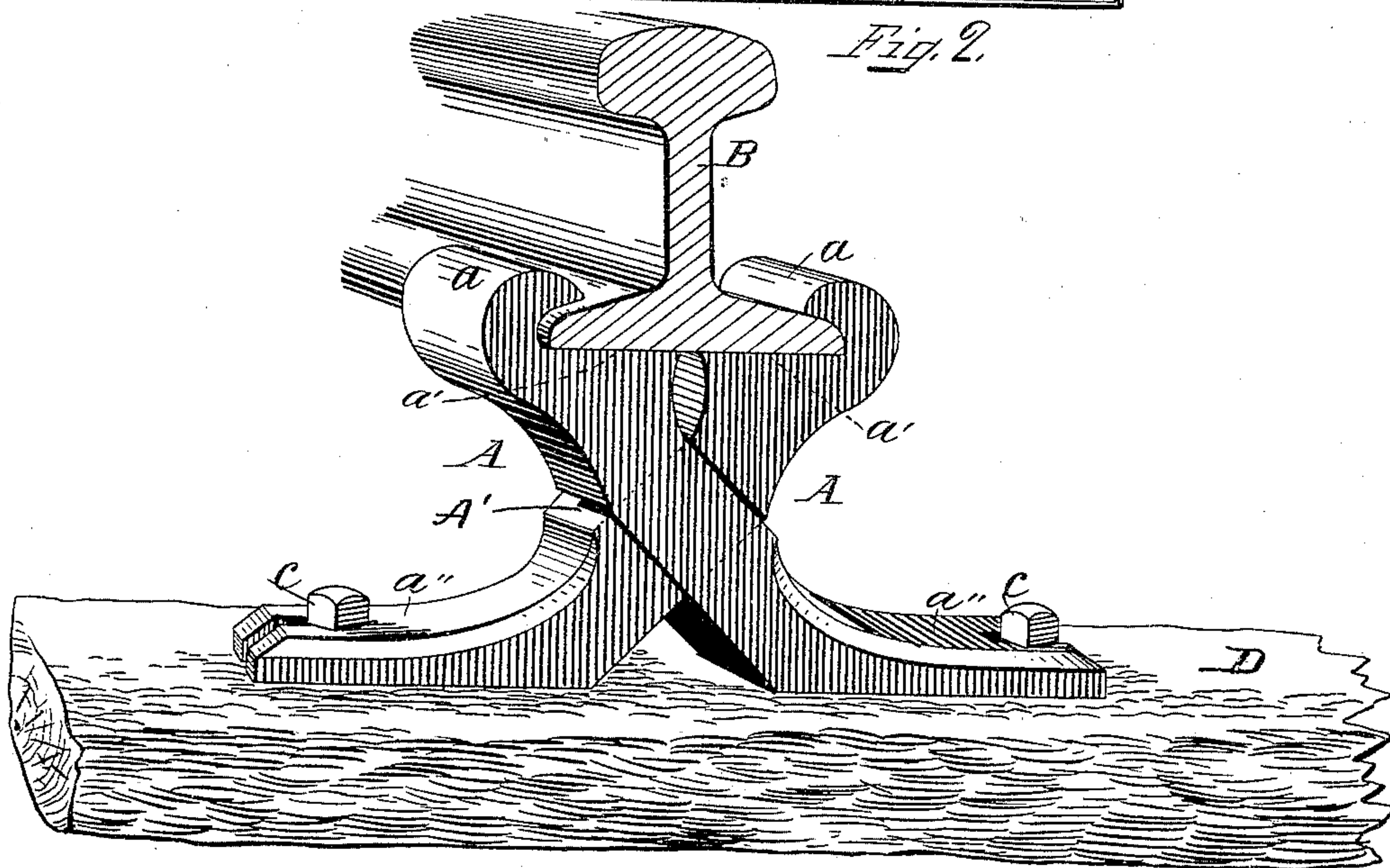


Fig. 3.

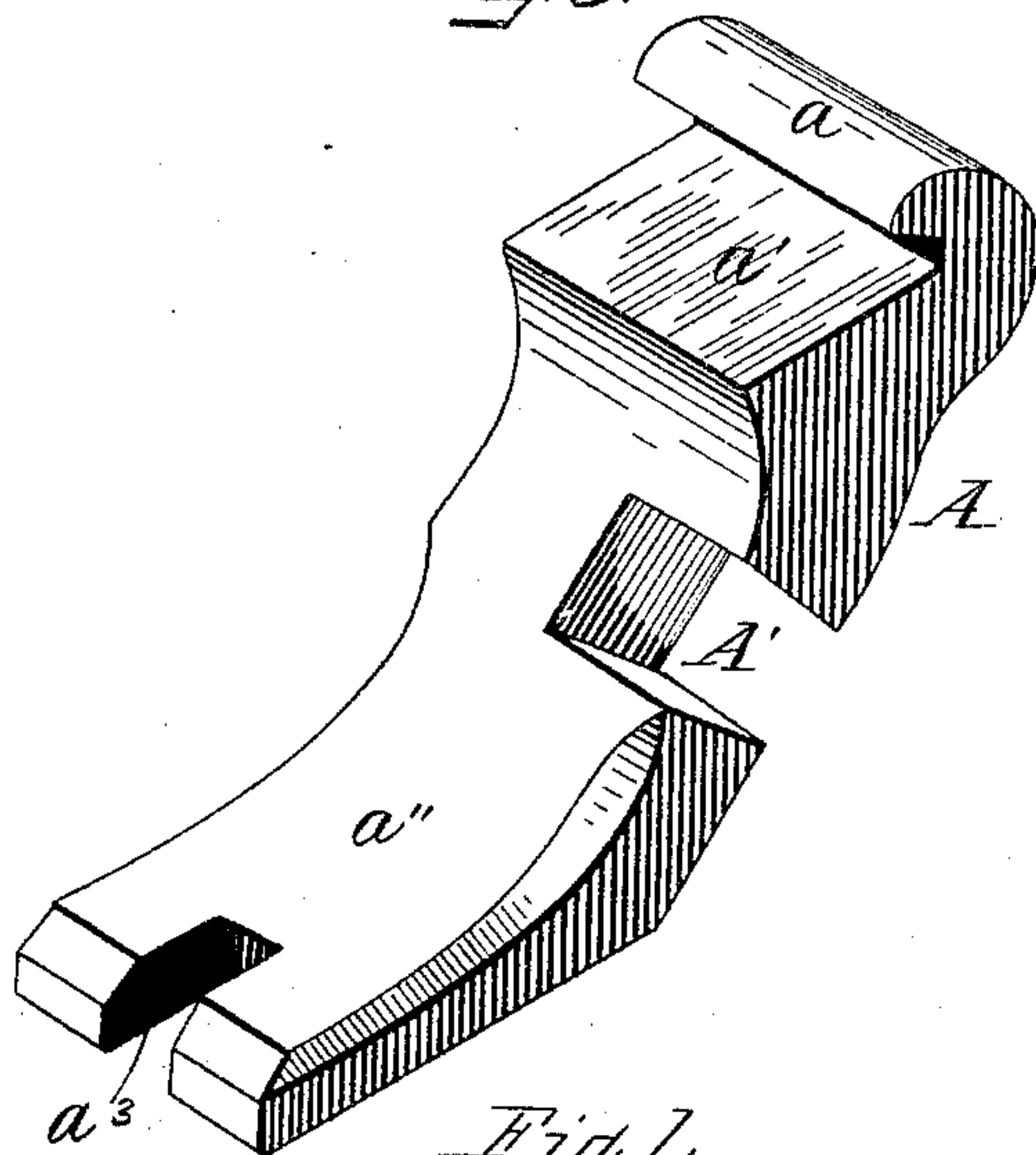


Fig. 1.

Witnesses
Alice A. Perkins.
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by Alban Gudren *Att'y.*

UNITED STATES PATENT OFFICE.

DAVID N. COOK, OF SALEM, MASSACHUSETTS.

RAILWAY-CHAIR.

SPECIFICATION forming part of Letters Patent No. 436,774, dated September 23, 1890.

Application filed June 26, 1890. Serial No. 356,859. (No model.)

To all whom it may concern:

Be it known that I, DAVID N. COOK, a citizen of the United States, and a resident of Salem, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Railway-Chairs, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in railway-chairs for the purpose of supporting and securing rails to their sleepers, and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a perspective detail view of one of the two equal parts or sections of which my improved railway-chair is composed. Fig. 2 represents a plan view of the improved railway-chair; and Fig. 3 represents a perspective view of it when in use, showing a rail held in place thereon.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The invention consists of a pair of cast-iron or cast-metal sections A A, having hooked jaws *a a* in their upper and outer ends adapted to receive the outer edges of the foot of the T-rail B, (shown in Fig. 3,) said rail resting on the upper surfaces *a' a'* of the sections A A, as shown. The sections A A are halved together when in use, as shown in Fig. 3, each section having for this purpose a notch or mortise A', adapted to receive the corresponding portion of the opposite section, as shown in Figs. 1 and 2.

a'' is the base of each of the sections A, having a notch or perforation *a³* for receiving the spike or bolt C driven into the sleeper D, as shown in Fig. 3.

In using the invention for the purpose of securing rails to their sleepers I proceed, preferably, as follows: I place one of the sections A in its proper position on the sleeper and secure it thereto by a bolt or spike C. The rail is then placed on top of the surface *a'*, and one edge of its foot inserted in the hooked

jaw *a*. Another and duplicate section A is then hooked on the opposite edge of the foot of the rail and moved longitudinally thereon until the two sections are locked and halved together, as shown in Fig. 3, and the section so moved is spiked to the sleeper in the same manner as the first one, as shown in said Fig. 3.

By this arrangement several advantages are obtained, among which may be mentioned the bearing-surfaces *a' a'*, as well as the hooked jaws *a a*, which are of equal widths, and are arranged directly opposite each other, thus avoiding any twisting of or irregularity in holding the rail, and the downward pressure of the rail will cause the hooked jaws *a a* to be forced against opposite edges of the foot of the rail, thus causing it to be held firmly to the rail in a ratio as the downward pressure on said rail is increased.

The invention is very simple, strong, and durable, and is composed of two equal parts or sections, which by their construction can be applied with very little labor for the purpose of securing the rails firmly in their places to the sleepers in a manner as hereinabove described.

What I wish to secure by Letters Patent, and claim, is—

The herein-described railway-chair, consisting of the two equal sections A A, having hooked jaws *a a* and rail-supports *a' a'* in their upper ends, notches or mortises A' A' on their middle portions, and bases *a'' a''*, having perforations or recesses for receiving spikes or bolts by means of which the chair is secured to the sleeper, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 24th day of June, A. D. 1890.

DAVID N. COOK.

Witnesses:

ALBAN ANDRÉN,
ALICE A. PERKINS.