

No. 698,314.

Patented Apr. 22, 1902.

P. O'KEEFE & J. H. WHELLEHEN.

RAIL BLOCK CLAMP.

Application filed Aug. 21, 1901.)

(No Model.)

Fig. 1.

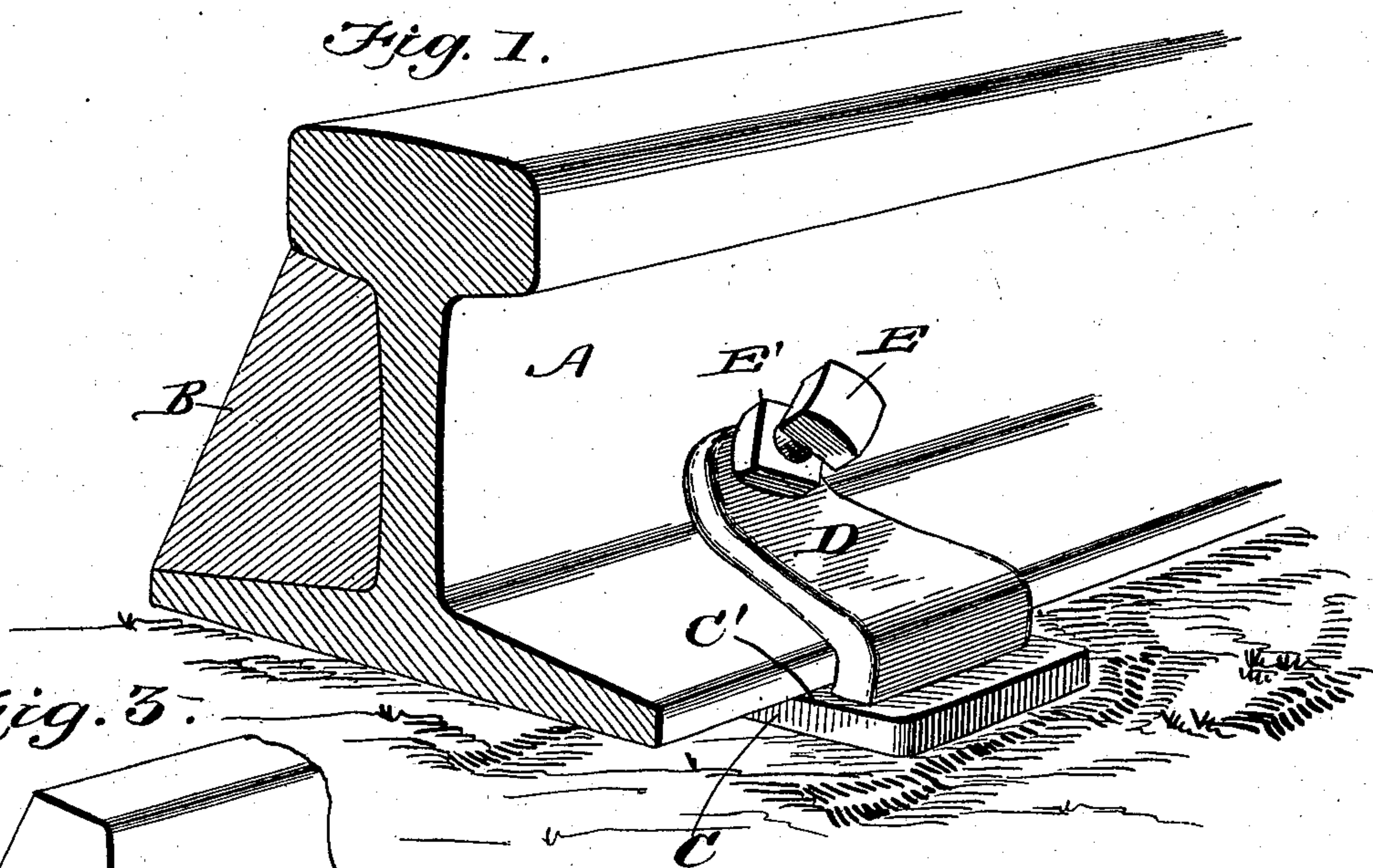


Fig. 3.

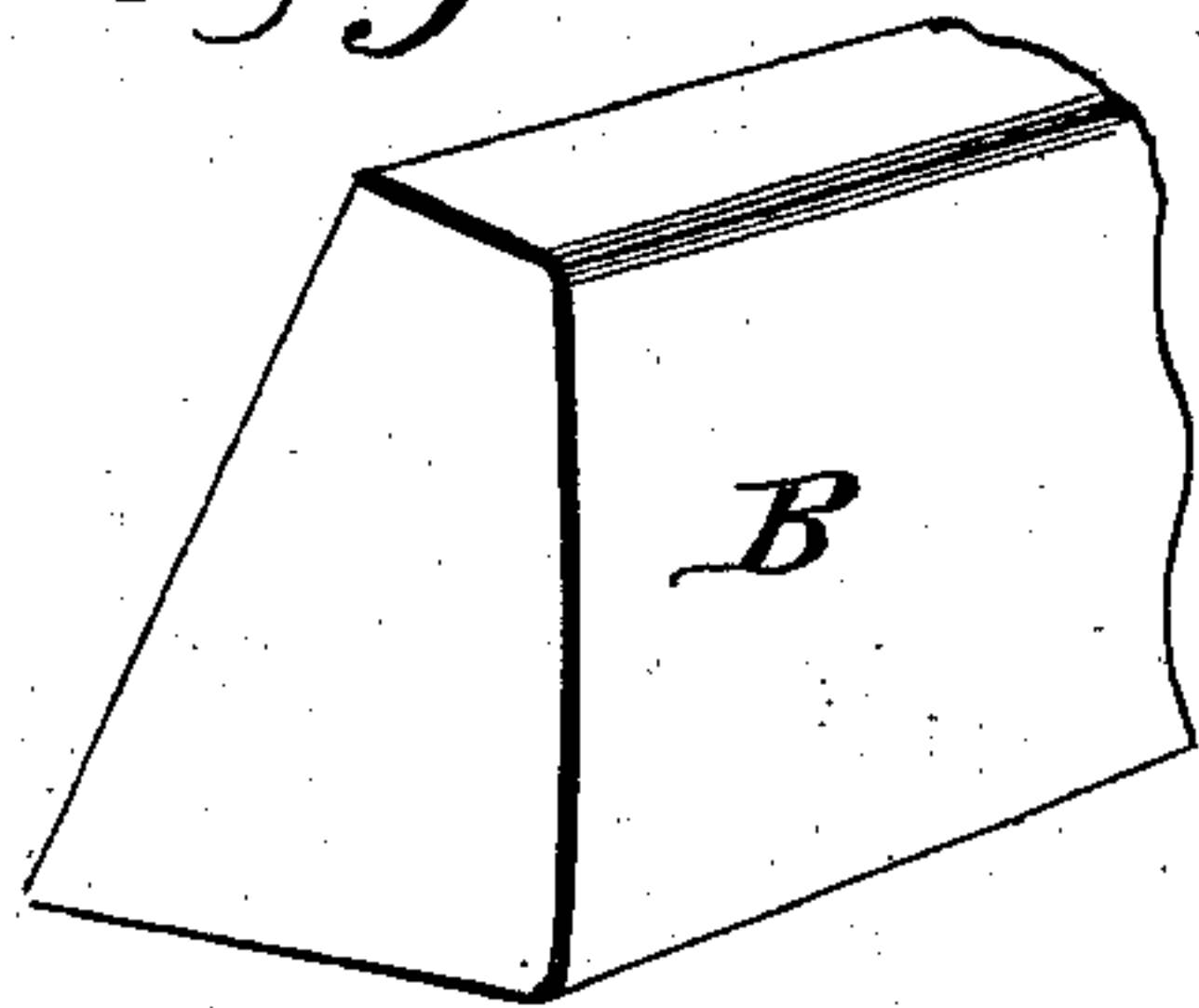


Fig. 2.

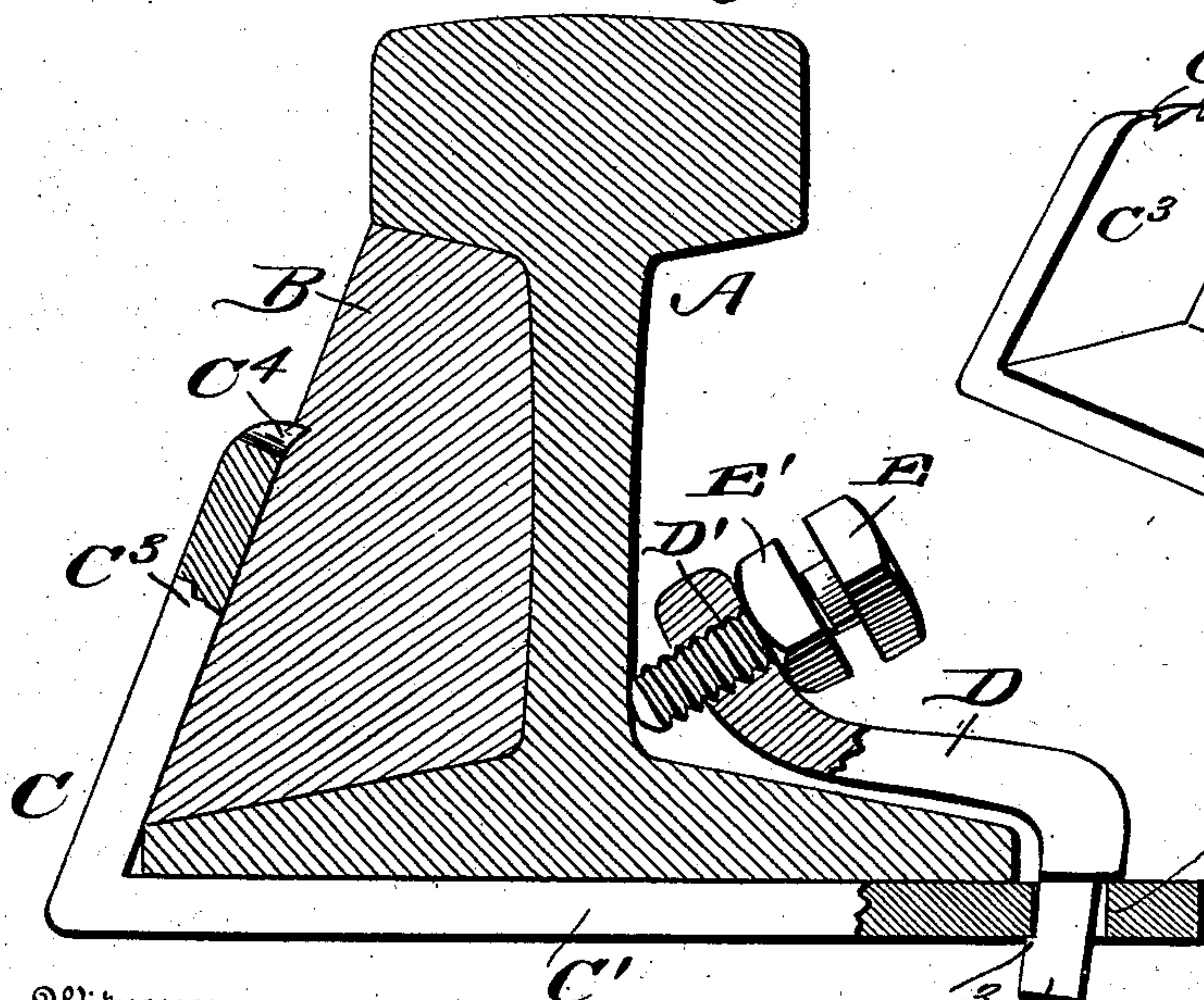


Fig. 5.

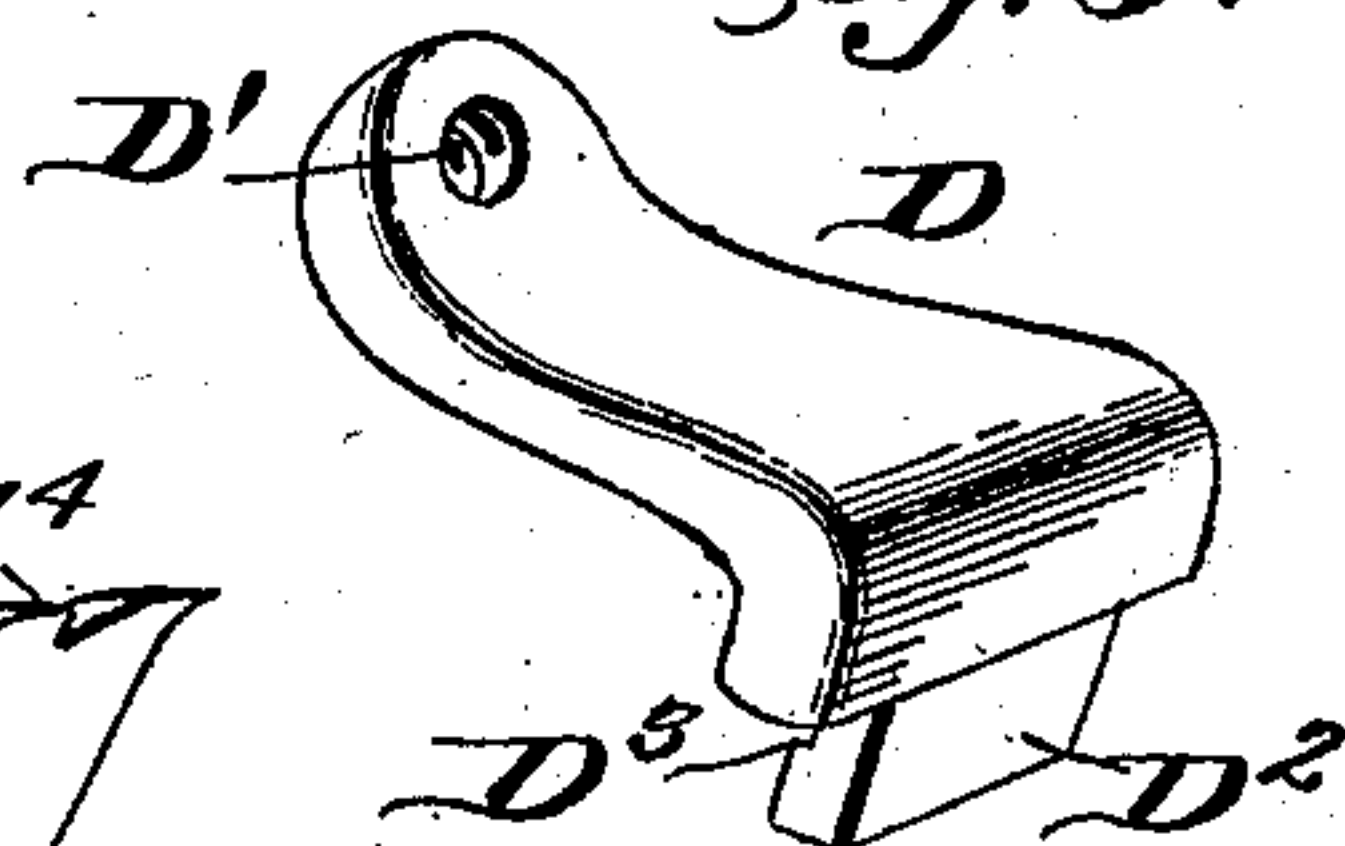
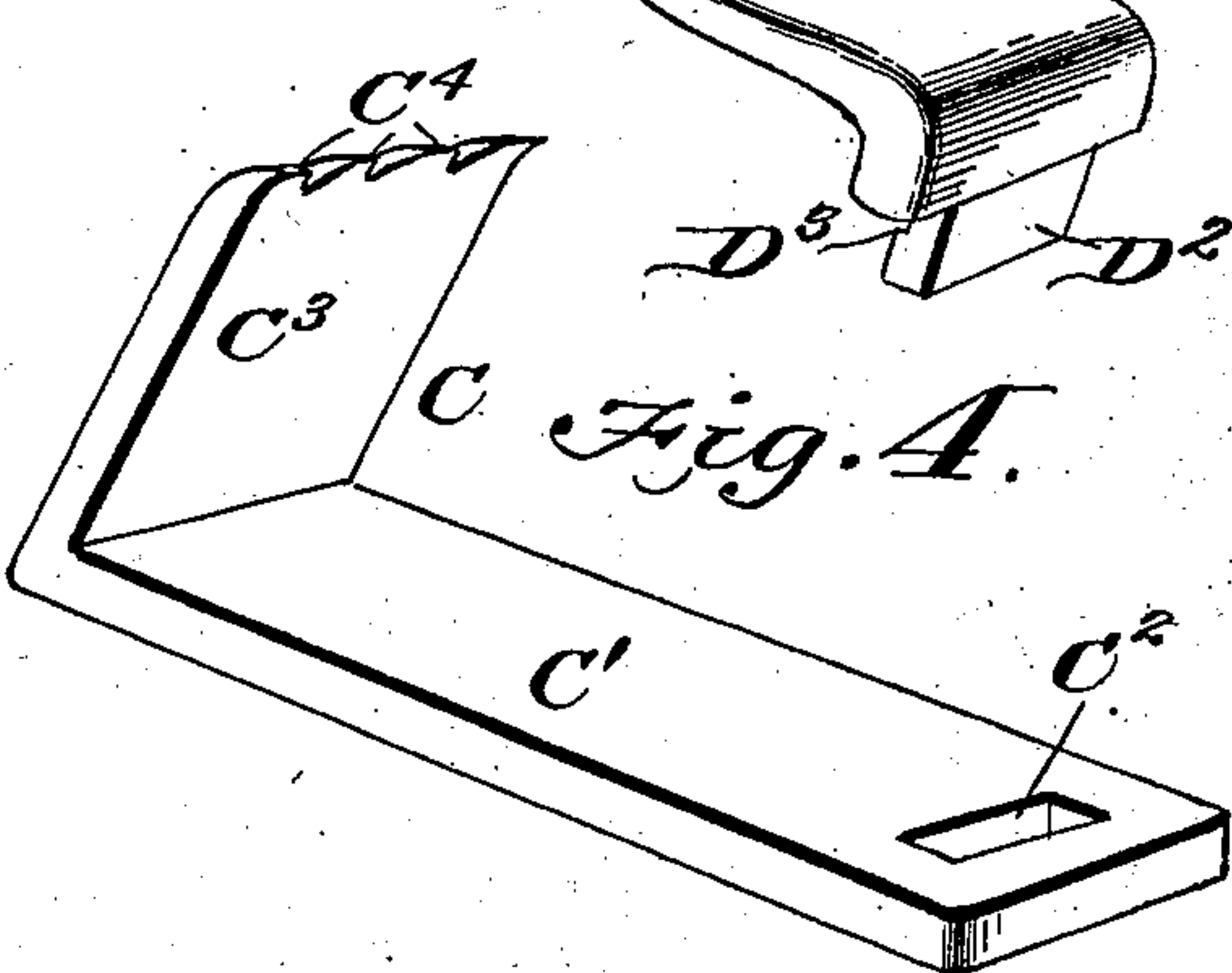


Fig. 4.



Inventors

John H. Whellehen
Patrick O'Keefe.

By

O'Keefe & Co.

Attorneys

Witnesses

M. S. Bloude,
Harry M. West.

UNITED STATES PATENT OFFICE.

PATRICK O'KEEFE AND JOHN H. WHELLEHEN, OF ORANGE,
MASSACHUSETTS.

RAIL-BLOCK CLAMP.

SPECIFICATION forming part of Letters Patent No. 698,314, dated April 22, 1902.

Application filed August 21, 1901. Serial No. 72,809. (No model.)

To all whom it may concern:

Be it known that we, PATRICK O'KEEFE and JOHN H. WHELLEHEN, citizens of the United States, residing at Orange, in the county of Franklin and State of Massachusetts, have invented a new and useful Rail-Block Clamp, of which the following is a specification.

This invention is an improved device for securing a block between switch and guard rails and frogs. Heretofore it has not been customary to place filling-blocks between adjacent rails; but owing to numerous accidents it has become necessary to fill the space between such rails, and for this purpose filling-blocks have been employed; and the object of this invention is to provide a filling-block, together with means for quickly and easily connecting it to the rail; and with this object in view the invention consists, essentially, of a block shaped to fit between the head and base of the rail and rest against the web of said rail, and an angular plate adapted to clamp the block and extend beneath the base of rail, said plate having means for clamping it to the base of the rail upon the side opposite the filling-block.

The invention consists also in certain details of construction and novelties of combination, all of which will be fully described hereinafter and pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view illustrating the practical application of our invention. Fig. 2 is a sectional view, partly in elevation. Fig. 3 is a detail view showing a portion of the filling-block, and Figs. 4 and 5 are detail perspective views illustrating the clamp in detail.

Referring to the drawings, A indicates the rail, and B the filling-block, which is shaped to fit against the web of the rail beneath the head of the rail and rest upon the flange, the outer or inclined face of the block extending from the outer edge of base to the outer edge of the head of rail. The clamp for securing this filling-block consists of an angular bar or plate C, the base C' being adapted to extend beneath the base of rail and project a short distance beyond the edge of rail, said

projecting end having an oblong-shaped opening C². The arm C³ is arranged at an oblique angle to the part C' and is adapted to bind against the filling-block B, and the upper end of the arm C³ is provided with inwardly-projecting teeth C⁴, which are intended to press into the wooden filling-block.

The member D is essentially in the form of a thick plate having a threaded aperture D' at one end and a depending lug D² at the opposite end, said lug having a size and shape to pass through the opening C² in the end of the plate or bar C', and the lug has a shoulder D³, which is adapted to fit beneath the edge of the opening, as most clearly shown in Fig. 2.

A bolt E is screwed in the threaded aperture D', the end of said bolt bearing in the angle between its base and web of rail, and a lock or jam nut E' is interposed between the member D and the head of bolt for the purpose of locking the bolt after adjustment.

In operation the angular clamp-plate or bar C is arranged to bind the filling-block B, and the member D is then fitted and secured. The filling-block is thus securely clamped to the rail, filling up the space at one side, and thus preventing the foot being caught between the heads of adjacent rails.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination with a rail, of a block adapted to rest against the web thereof between the head and flange and an angular clamp-plate adapted to embrace said block and base of the rail, and a plate attached to the projecting end of said angular clamp-plate having a bolt passing therethrough to bear upon the rail, substantially as shown and described.

2. The combination with a rail, of a block adapted to fit against the web of said rail between the head and base, an angular clamping-plate adapted to embrace the said block and base of the rail and project beyond said base, a plate having its end projected through the projecting end of the clamping-plate, the opposite end of said plate having an aperture; a bolt adapted to pass through said aperture,

and the nut arranged upon the bolt between the plate and head of bolt, substantially as shown and described.

5 3. The combination with an angular clamping plate or bar, one end having teeth, the other end having a rectangular-shaped opening, of a clamp member, having a threaded aperture at one end and a shouldered lug at

the other end, and a bolt and lock nut all arranged substantially as shown and described. 10

PATRICK O'KEEFE.
JOHN H. WHELLEN.

Witnesses:

FRED T. RUDDOCK,
SAMUEL O. LAMB.