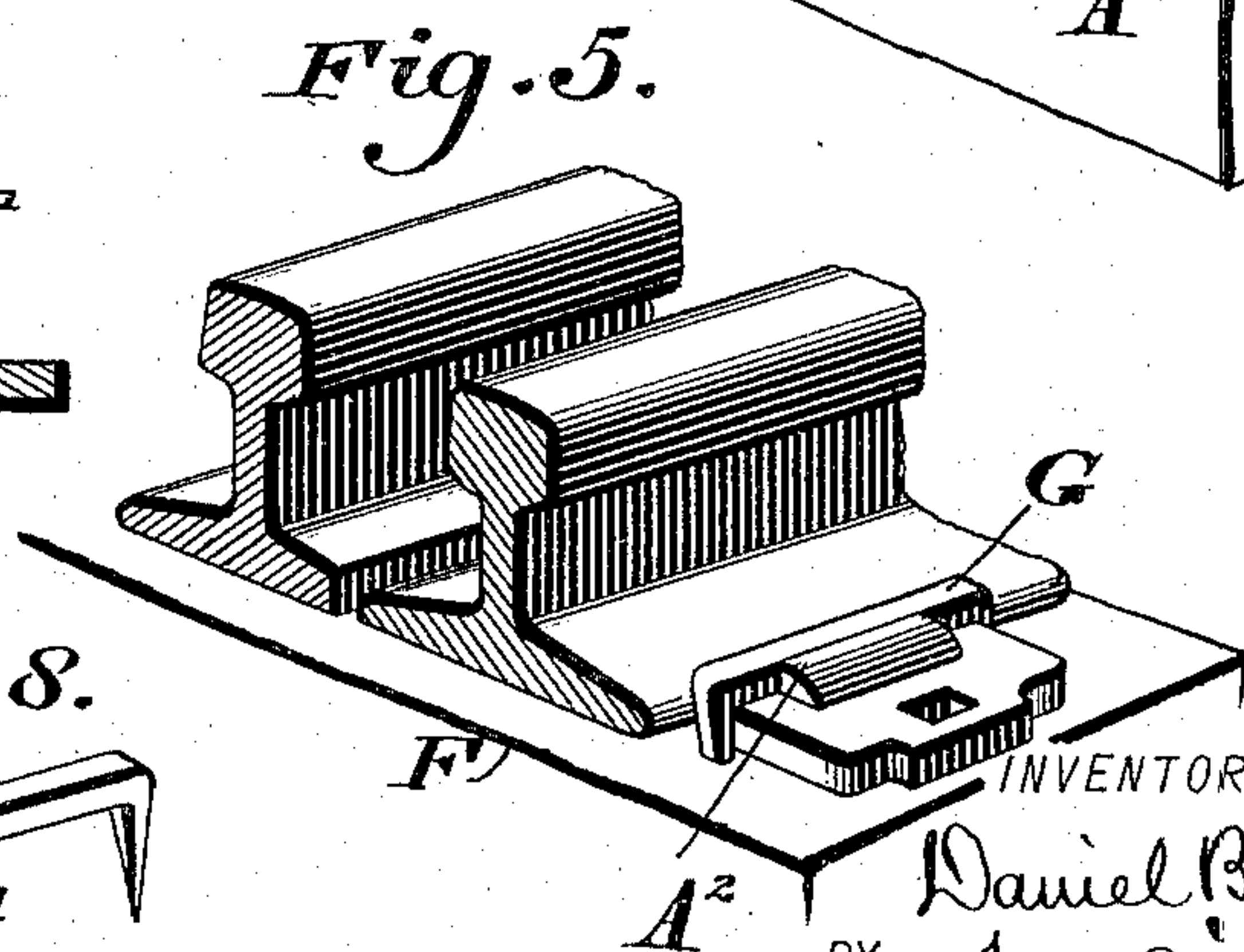
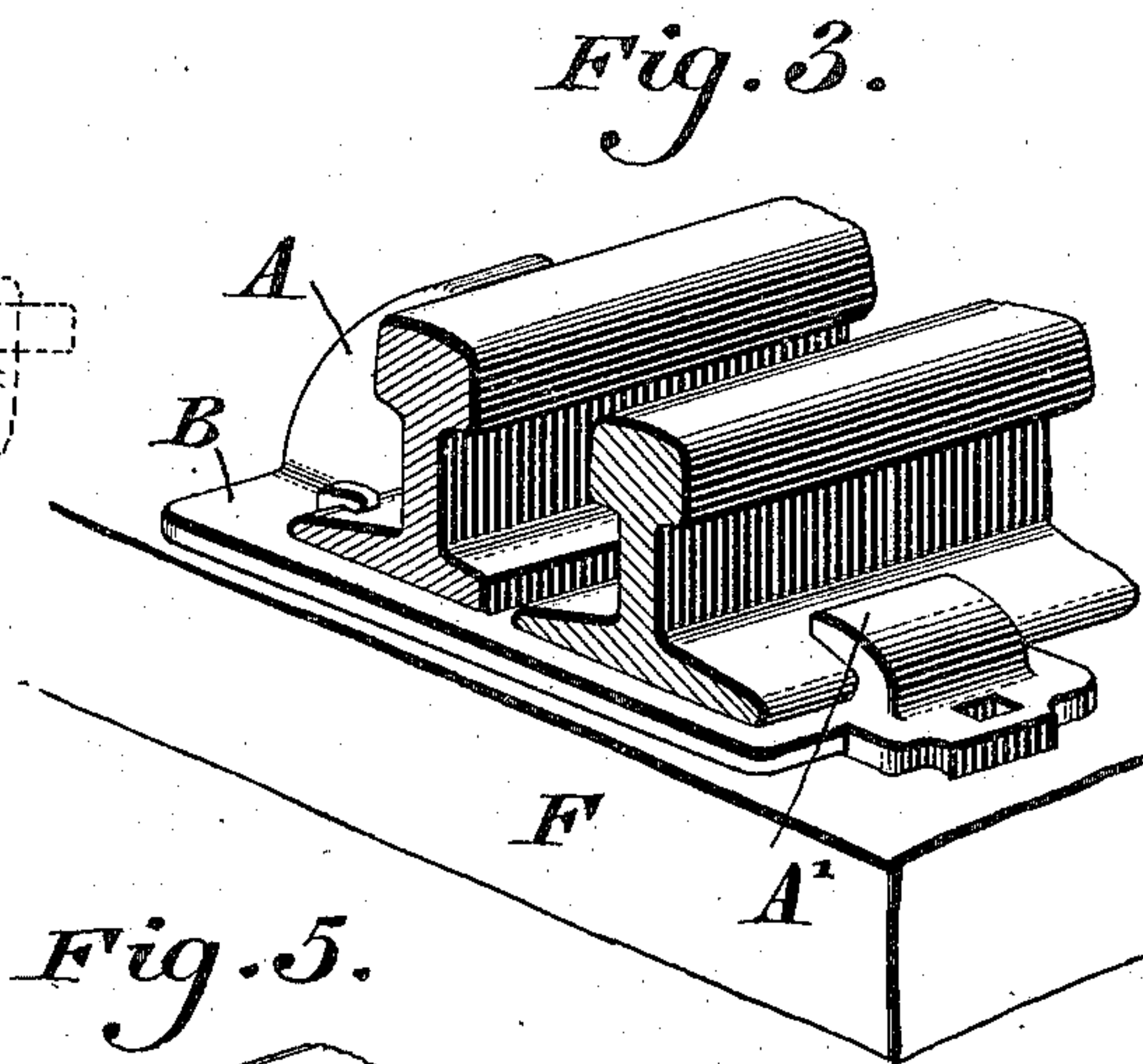
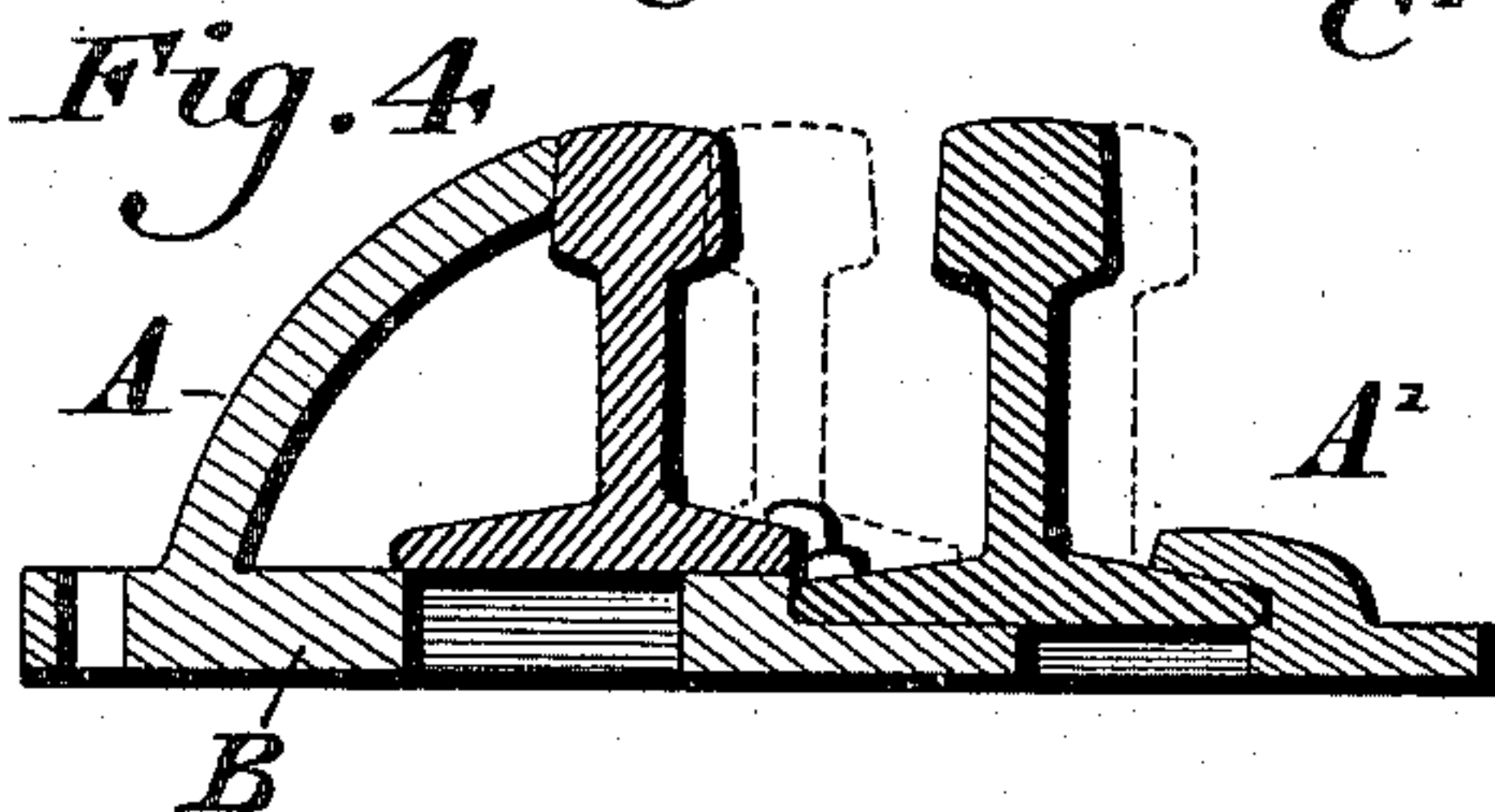
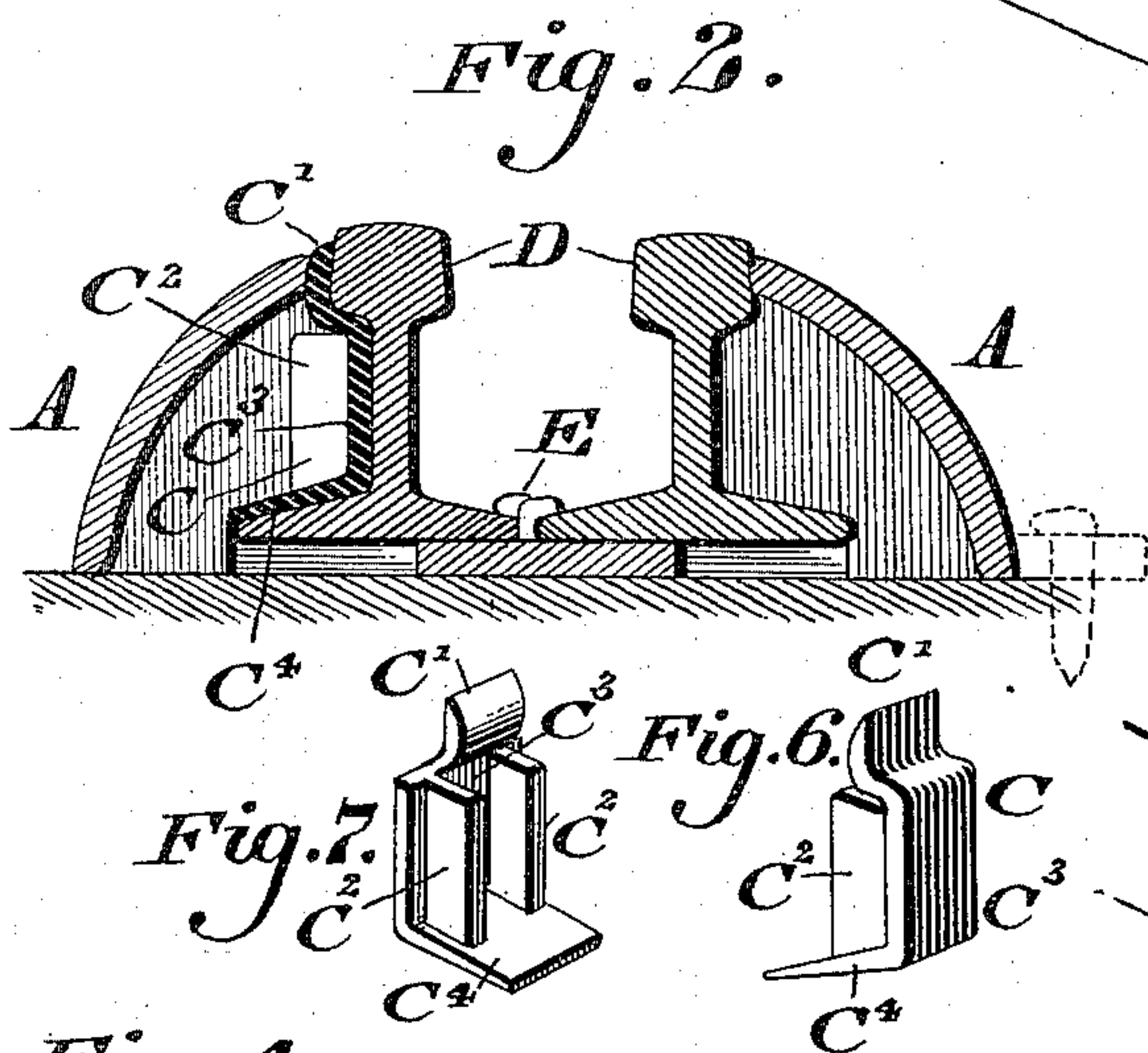
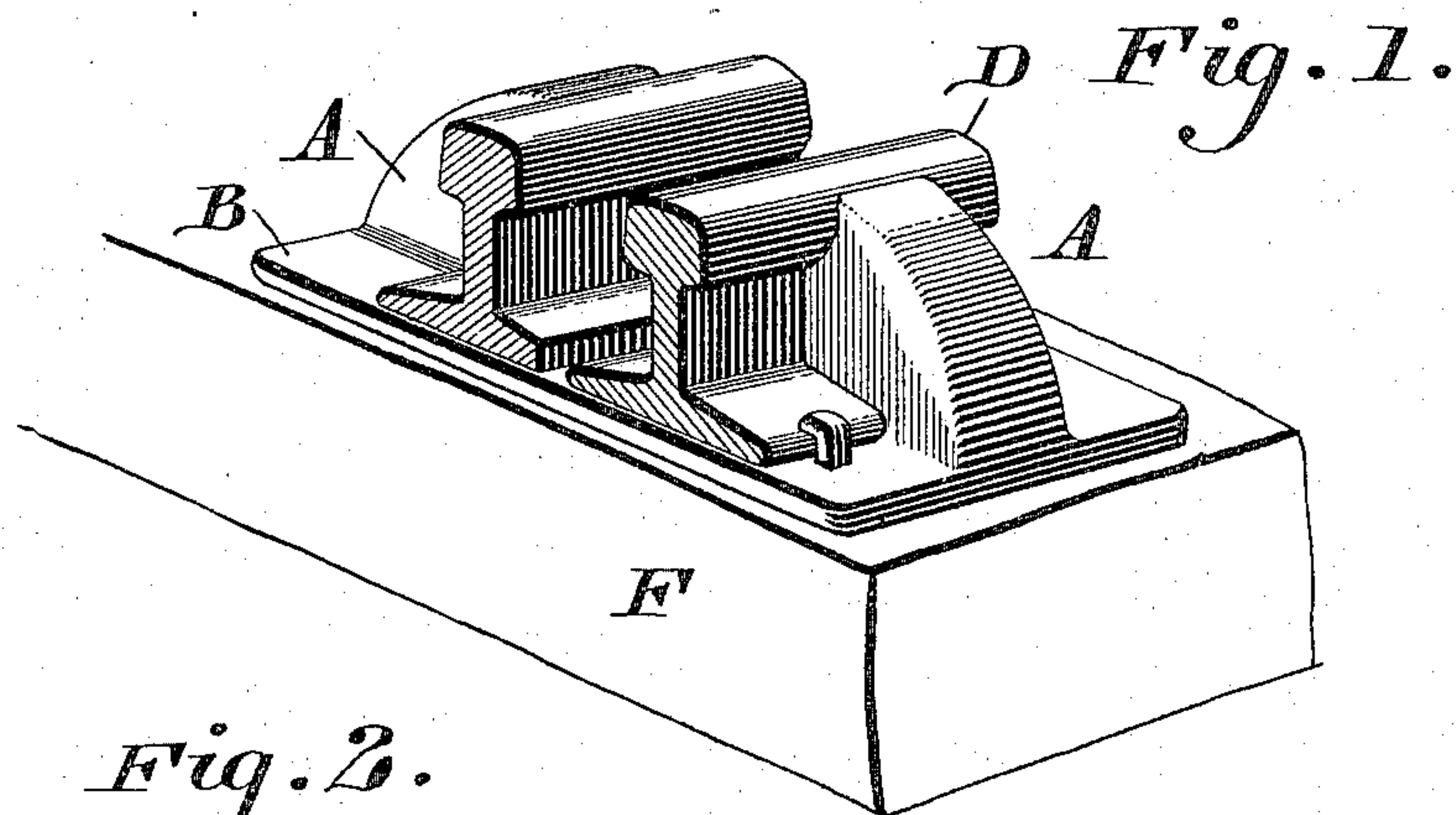


D. B. RUFFNER.
CLAMP FOR RAILROAD RAILS.

Patented Jan. 29, 1895.



WITNESSES:

P. F. Chagles.
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UNITED STATES PATENT OFFICE.

DANIEL B. RUFFNER, OF PHILADELPHIA, PENNSYLVANIA.

CLAMP FOR RAILROAD-RAILS.

SPECIFICATION forming part of Letters Patent No. 533,235, dated January 29, 1895.

Application filed March 17, 1894. Serial No. 503,970. (No model.)

To all whom it may concern:

Be it known that I, DANIEL B. RUFFNER, 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 Clamps for Railroad-Rails, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of improvements in clamps and braces for main and guard rails of railways, as will be hereinafter set forth.

Figure 1 represents a perspective view of a rail brace or clamp, embodying my invention. Fig. 2 represents a transverse section thereof. Figs. 3 and 5 represent perspective views of modifications. Fig. 4 represents a transverse section of the parts shown in Fig. 3. Fig. 6 represents a filling piece shown in position in Fig. 2. Fig. 7 represents another view of the filling piece shown in perspective in Fig. 6. Fig. 8 represents a perspective view of a portion of Fig. 5, detached therefrom.

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

Referring to the drawings: A designates cheek pieces preferably hollow and integral with the base B.

C designates a filling piece interposed between one of the rails and the adjacent cheek piece A, said filling piece occupying the space that may exist between said rail and cheek piece.

In order to fasten the rail D directly to the base B of the cheek pieces A, I employ the spikes E, which are driven through openings in said base into the tie F, and have their heads resting upon the upper sides of the bases of the rails.

The filling piece C is shown detached in Figs. 6 and 7, when it will be seen that it is formed of the head portion C' which abuts against the head of the rail, the two web portions C², the side portion C³, and the foot C⁴, said side portion C³ being adapted to fit up against the rail, as shown in Fig. 2, while the webs C² fit against the inner faces of the side walls of the hollow cheek pieces, the foot C⁴

resting upon the base of the rail, whereby said filling piece is prevented from shifting laterally or vertically, as is evident, the parts being shown in assembled position in Fig. 2.

In Figs. 3 and 4, is shown a cheek piece A' adapted to embrace the base of one of the rails, the opposite cheek piece A being similar to those in the previously described figures, so that the rail which is embraced by said cheek piece A' may be driven up when the parts are worn, the rails being secured by spikes, in addition to said cheek pieces A and A'.

In Fig. 5, I show a cheek piece A², which reaches nearly to the outer side of the base of the adjacent rail, but does not engage the same, as in Figs. 3 and 4, the space existing between the parts being occupied by a filling piece G, which consists of a bar with pointed ends, said ends extending along the sides of the base plate of said cheek piece A², and being driven into the tie F.

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

1. A hollow cheek piece, in combination with a filling piece adapted to contact with a rail, and having web portions adapted to fit against the inner faces of the side walls of the said cheek piece, said parts being combined substantially as described.

2. A rail, a hollow cheek and a filling piece between said rail and cheek piece, said filling piece having web portions fitting against the inner faces of the side walls of said cheek pieces, substantially as described.

3. A hollow cheek piece having a base adapted to support a rail thereon, a filling piece having top, side and foot portions, adapted to contact with a rail on said base, and provided with web portions fitting against the inner faces of the side walls of said cheek pieces, said parts being combined substantially as described.

DANIEL B. RUFFNER.

Witnesses:

JOHN A. WIEDERSHEIM,
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