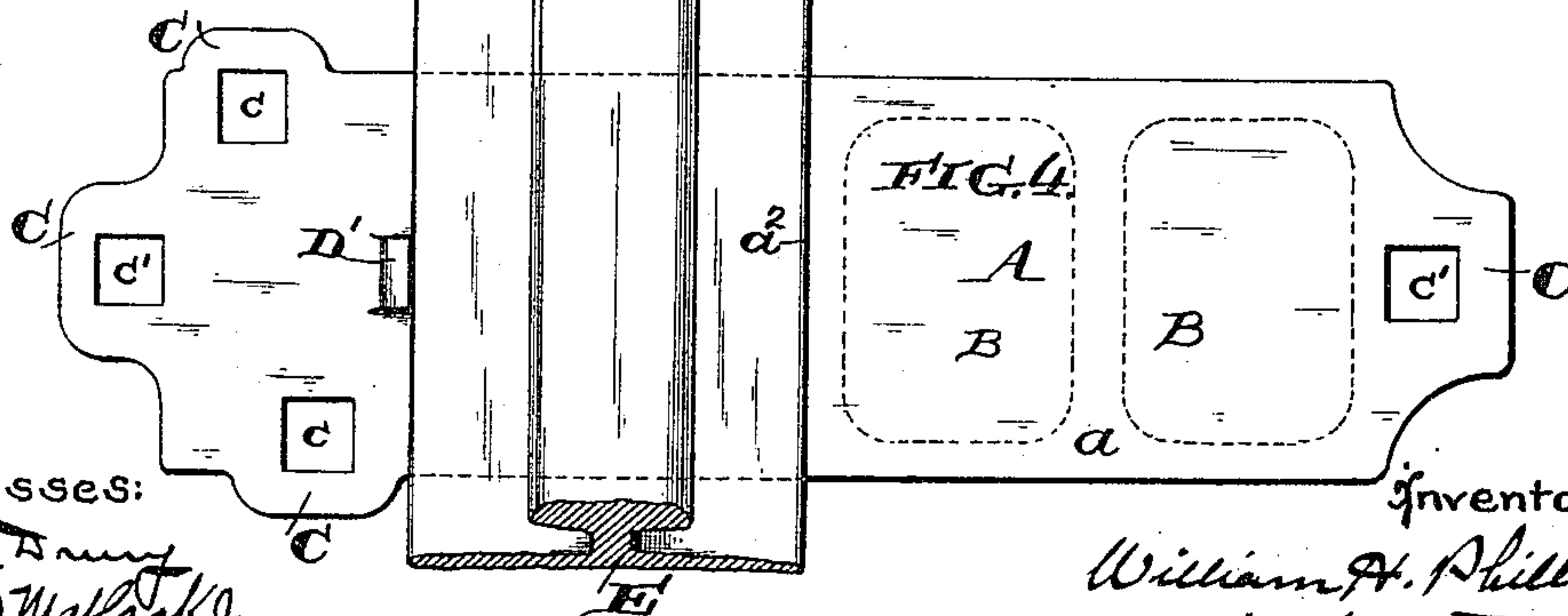
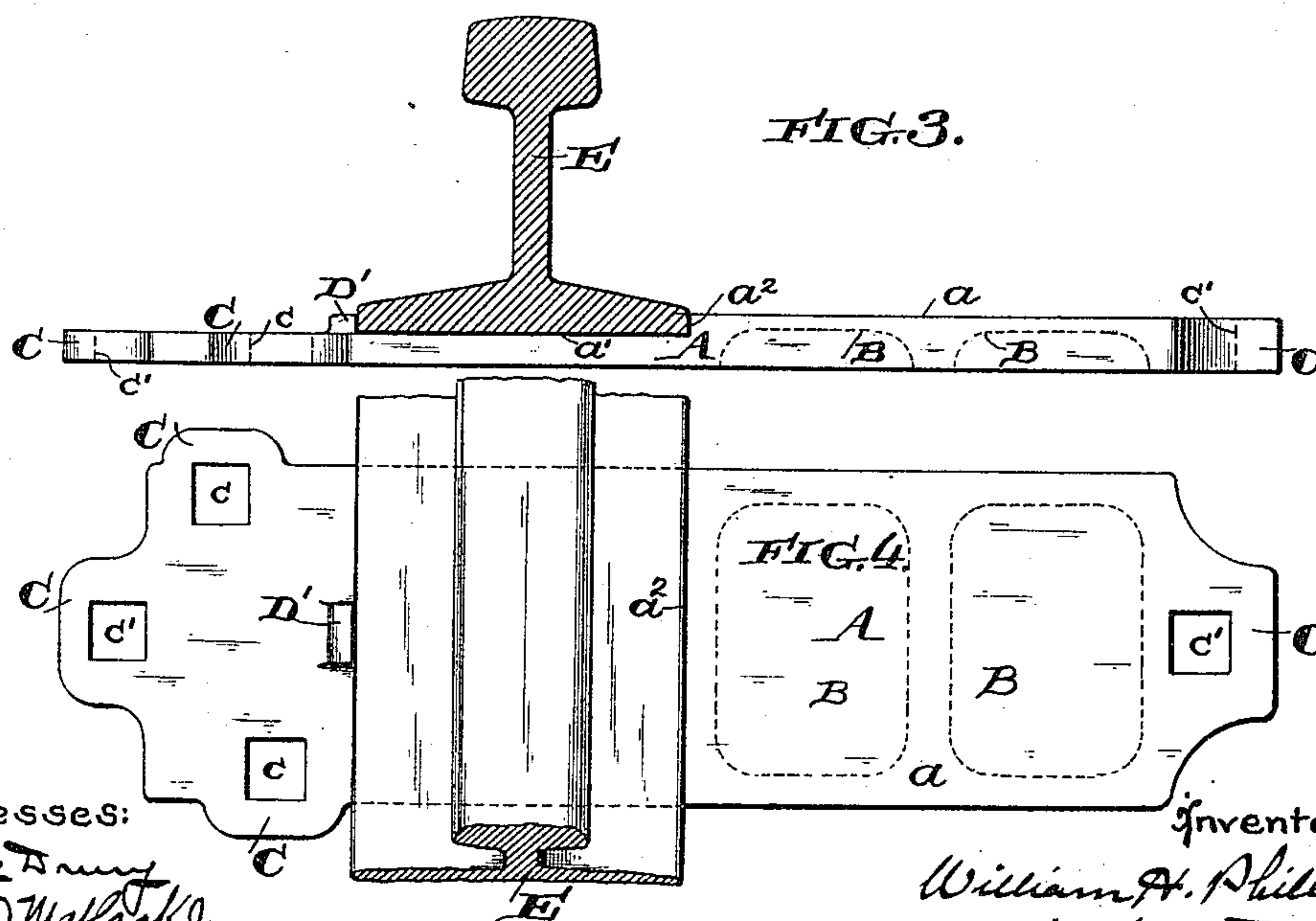
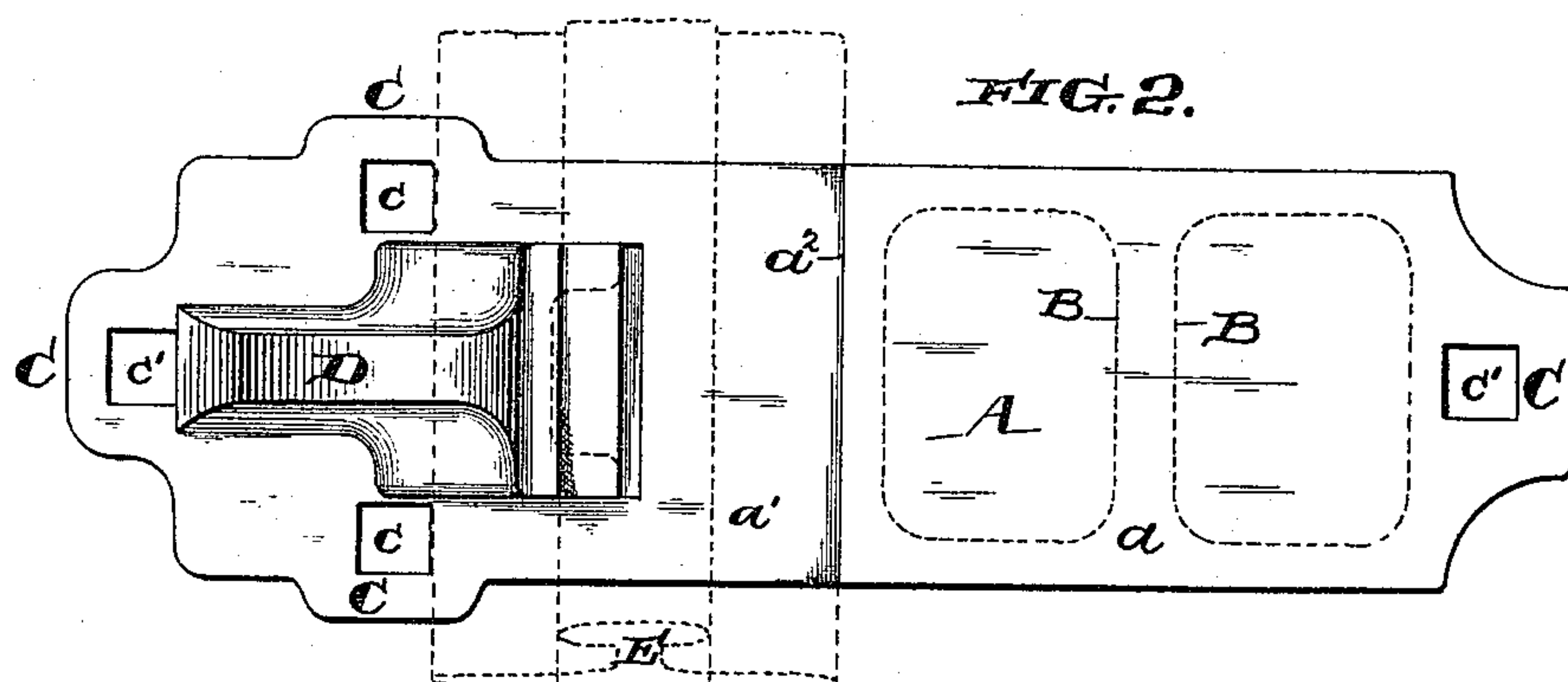
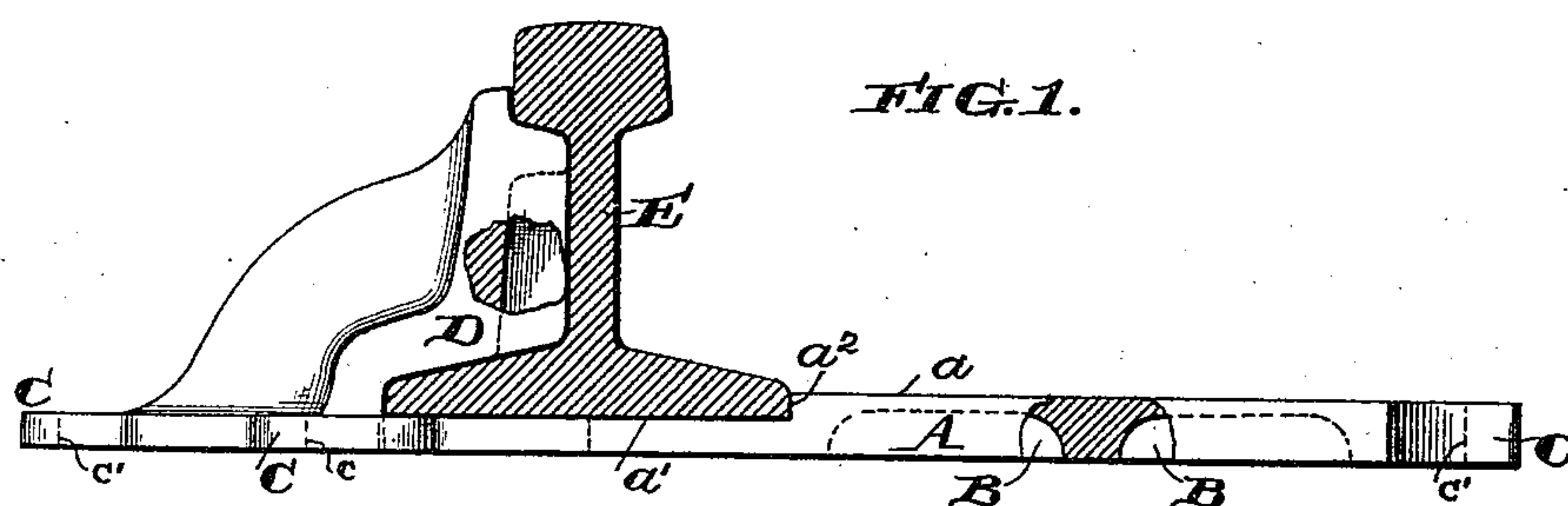


(No Model.)

W. H. PHILLIPS.  
SWITCH CHAIR.

No. 464,732.

Patented Dec. 8, 1891.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

WILLIAM H. PHILLIPS, OF JENKINTOWN, ASSIGNOR OF ONE-HALF TO FRANCIS G. BATES AND JOSEPH W. HUNTER, OF PHILADELPHIA, PENNSYLVANIA.

## SWITCH-CHAIR.

SPECIFICATION forming part of Letters Patent No. 464,732, dated December 8, 1891.

Application filed January 21, 1891. Serial No. 378,520. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. PHILLIPS, of Jenkintown, Montgomery county, State of Pennsylvania, have invented a certain new and useful Improvement in Switch-Chairs, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to the construction of a chair formed of malleable cast-iron and adapted to properly support the fixed and movable rails of a switch, the object being to provide a chair at once cheap in construction and thoroughly well adapted for the special purpose for which it is intended.

The nature of my invention will be best understood as described in connection with the drawings, in which—

Figure 1 is an elevation of my improved chair in the form in which I prefer to construct it; Fig. 2, a plan of the chair as shown in Fig. 1; Fig. 3, an elevation of a simpler form of my improvement, and Fig. 4 a plan of the chair shown in Fig. 3.

My improved chair is formed of a casting A, of malleable iron, having a level platform *a*, upon which the movable rail of the switch rests and moves, and a platform *a'* at a lower level, upon which the fixed rail rests. A shoulder *a*<sup>2</sup> is formed at the division-line of the two platforms, and against this shoulder one edge of the fixed rail *E* rests, as shown in the drawings. On the sides of the platform *a'* and outside of that portion covered by the base of the fixed rail, bolt-holes *c c* are formed and strengthened by cast lugs *C C*, extending out from the sides of the platform. In this way I am enabled to reduce the breadth of the chair, while at the same time placing the spikes far enough apart and giving them a firm hold upon the chair. At the two ends of the chair I form bolt-holes *c' c'*, which are also embraced wholly or partly in projecting lugs *C* *C*, as shown. In order to save unnecessary metal I form core-recesses, as *B B*, on the un-

der side of the platform *a*. Preferably I form a projection on the platform *a'*, adapted to rest against the outside of the fixed rail *E*. This may consist of a simple lug, as *D'*, Figs. 3 and 4; but preferably I form this projection as shown at *D*, Figs. 1 and 2, so that it will rest against and support the head of the rail.

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

1. A switch-chair formed of malleable iron, having a platform *a* for the movable rail, a lower platform *a'*, bounded inside by a shoulder *a*<sup>2</sup> for the fixed rail, spike-holes, as *c*, formed at its sides, and lugs *C*, cast outside said holes, all substantially as and for the purpose specified.

2. A switch-chair formed of malleable iron, having a platform *a* for the movable rail, with core-recesses *B*, formed on its lower side, a lower platform *a'*, bounded inside by a shoulder *a*<sup>2</sup> for the fixed rail, spike-holes, as *c*, formed at its sides, all substantially as and for the purpose specified.

3. A switch-chair formed of malleable iron, having a platform *a* for the movable rail, with core-recesses *B*, formed on its lower side, a lower platform *a'*, bounded inside by a shoulder *a*<sup>2</sup> for the fixed rail, spike-holes, as *c*, formed at its sides, and lugs *C*, cast outside said holes, all substantially as and for the purpose specified.

4. A switch-chair formed of malleable iron, having a platform *a* for the movable rail, a lower platform *a'* for the fixed rail, bounded inside by the shoulder *a*<sup>2</sup> and outside by a projection cast integral with the chair and between which and the said shoulder the rail is held, and spike-holes, as *c c'*, formed in the metal, as described, and inclosed by lugs *C*, extending out from the chair.

WILLIAM H. PHILLIPS.

Witnesses:

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