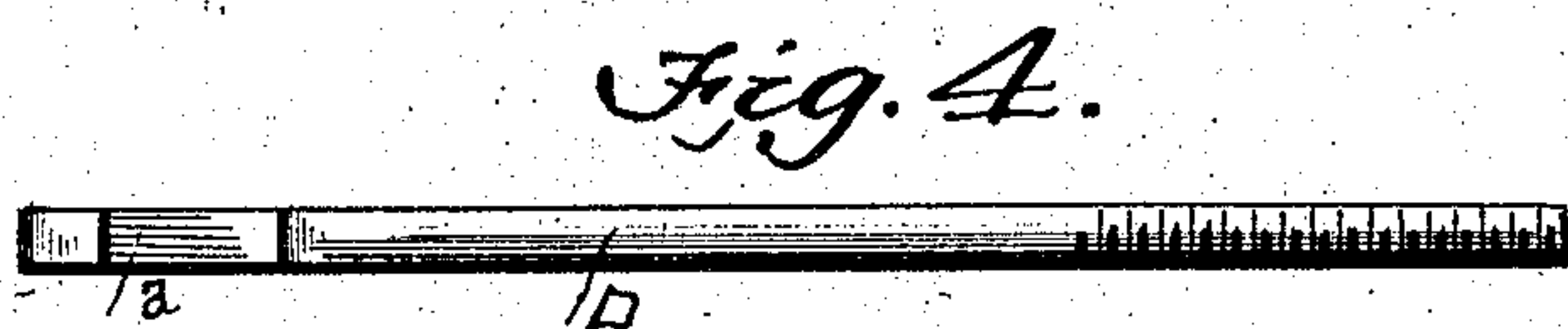
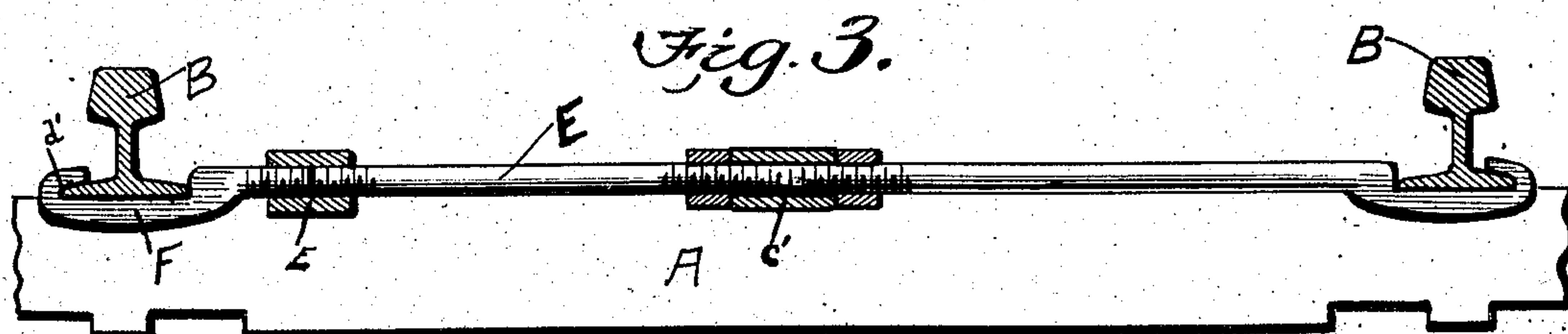
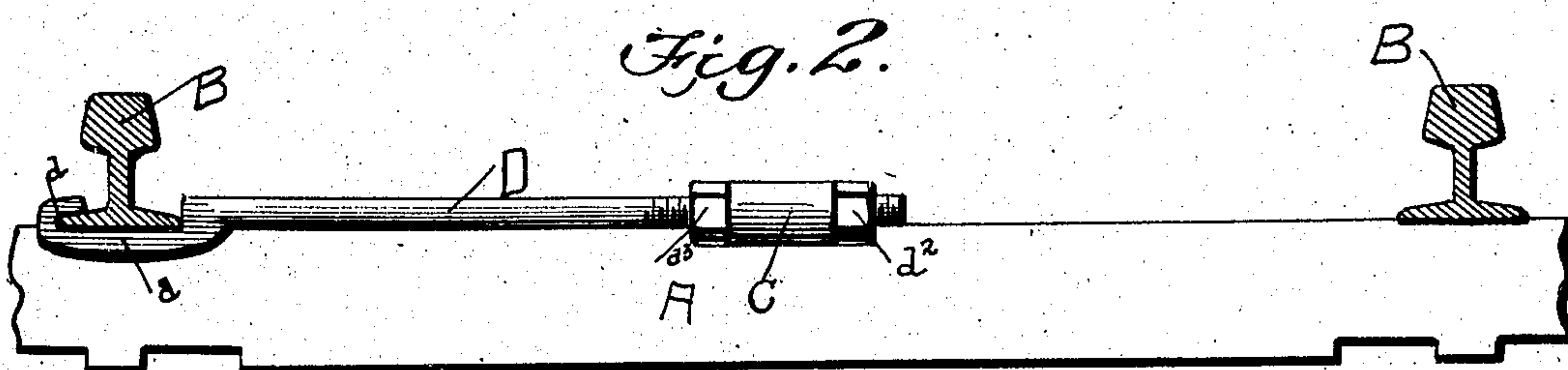
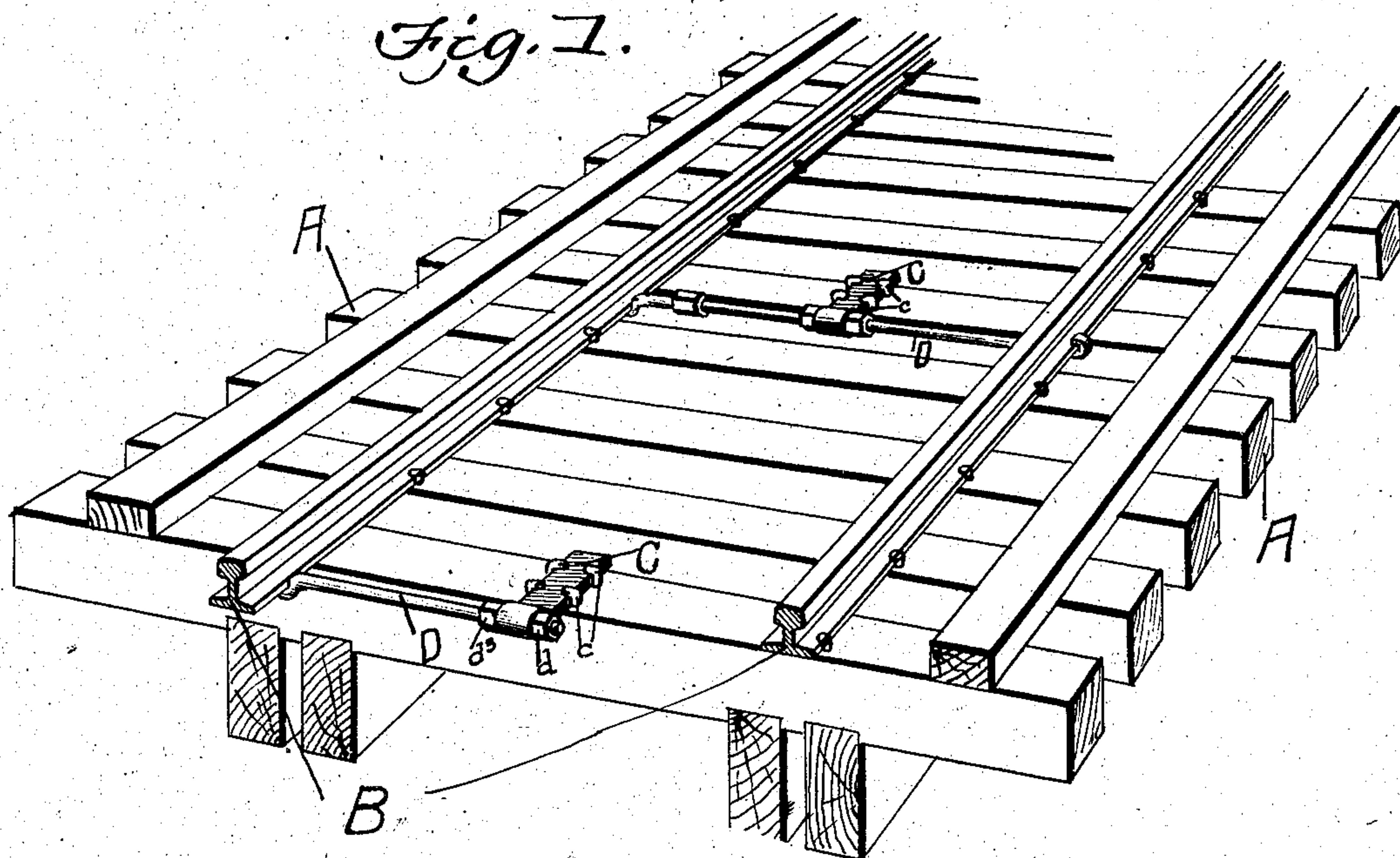


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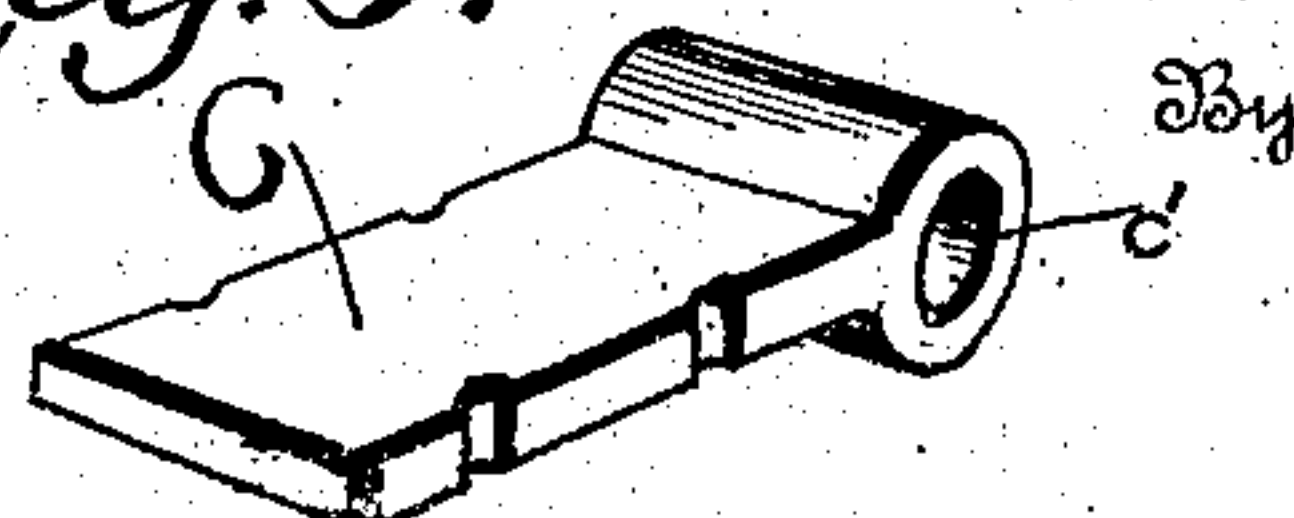
PATENTED DEC. 5, 1905.

E. MURPHY.  
TRACK ALINING DEVICE.  
APPLICATION FILED JAN. 31, 1905.



Witnesses  
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*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

EDWARD MURPHY, OF IOWA FALLS, IOWA.

## TRACK-ALINING DEVICE.

No. 806,172.

Specification of Letters Patent.

Patented Dec. 5, 1905.

Application filed January 31, 1905. Serial No. 243,511.

*To all whom it may concern:*

Be it known that I, EDWARD MURPHY, a citizen of the United States, residing at Iowa Falls, in the county of Hardin and State of Iowa, have invented a new and useful Track-Alining Device, of which the following is a specification.

My invention relates to certain new and useful improvements in track-alining devices, and has for its object to provide a simple, cheap, and durable device that will form a rail-brace, as well as a track-alining device.

My invention consists in the construction, combination, and arrangement of parts, more fully described and illustrated in the accompanying drawings—

Figure 1 is a perspective view of a railroad-track, showing my device in place. Fig. 2 is a side elevation of my device applied to the track. Fig. 3 is a side elevation of a modification of my device applied to the track. Fig. 4 is a top plan view of the clamping-rod. Fig. 5 is a perspective view of the center plate.

Referring to the drawings, A indicates the cross-ties, and B the rails. To the center portion of the tie A there is secured, by means of spikes *c*, a flat plate C, provided with an eye *c'* at one end and having notches formed in its sides to receive the spikes *c*. To the rail B is secured the clamping-rod D, which is provided at its outer end with the jaw *d*, having an undercut recess *d'* to receive the flange of the rail. The other end of the rod D is screw-threaded and projects through the eye *c'* in the plate C and is provided with nuts *d<sup>2</sup>* and *d<sup>3</sup>*, one of the nuts being arranged on each side of the eye *c'*. By arranging the parts as described it will be seen by loosening up on one nut and tightening up on the other the rail can be drawn in and out, as may be desired.

In the modification clearly shown in Fig. 3 I employ a double brace, which is better adapted to be used on curves, and instead of using the short rod D, as shown in Fig. 4, I employ a long rod E, screw-threaded at its center and at its end which extends through the eye *c'* and is connected to the jaw F by a nut E, said rod being provided with the nuts *d<sup>2</sup>* and *d<sup>3</sup>*, as previously used.

In practice when it is desired to line up a

track I employ a number of the devices oppositely arranged to the rail about every fifteen or twenty feet, and to aline the track it is only necessary to tighten and loosen up the nuts and the track can be drawn into perfect alinement. The nuts are then screwed up tight against the eye *c'* and locked, and it will be readily seen that the device will form a rail-brace that will prevent the rails from spreading or moving farther apart.

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

1. In a device of the kind described, the combination with a rail, of a plate provided with an eye secured to the cross-tie and a rod provided with a jaw to receive the rail at one end, and the other end projecting through the eye, in said plate, said end being screw-threaded and provided with nuts on each side of the eye for drawing the track in or shoving the track out, for the purpose described.

2. In a device of the kind described, the combination with a rail of a flat plate provided with an eye at one end, and notches formed in its side, secured to the cross-tie, a rod screw-threaded at one end and provided with a jaw at the other end connecting the eye to the rail and means carried by said rod for adjusting said rail, for the purpose described.

3. In a device of the kind described, the combination with a rail, of a plate provided with an eye secured to the cross-tie, a rod provided with a jaw at one end passing through said eye, said rod having screw-threads cut at the other end, and at its center a jaw connected by a nut to said rod, and nuts carried by said rod for adjusting the said rail, for the purpose described.

4. In a device of the kind described, the combination with a rail, of a flat plate provided with an eye at one end, secured to the cross-tie and a rod connected to said rail, and projecting through the eye in said plate and being screw-threaded and provided with nuts on each side of the eye for drawing the track in, or shoving the track out, for the purpose described.

EDWARD MURPHY.

Witnesses:

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