

No. 702,215.

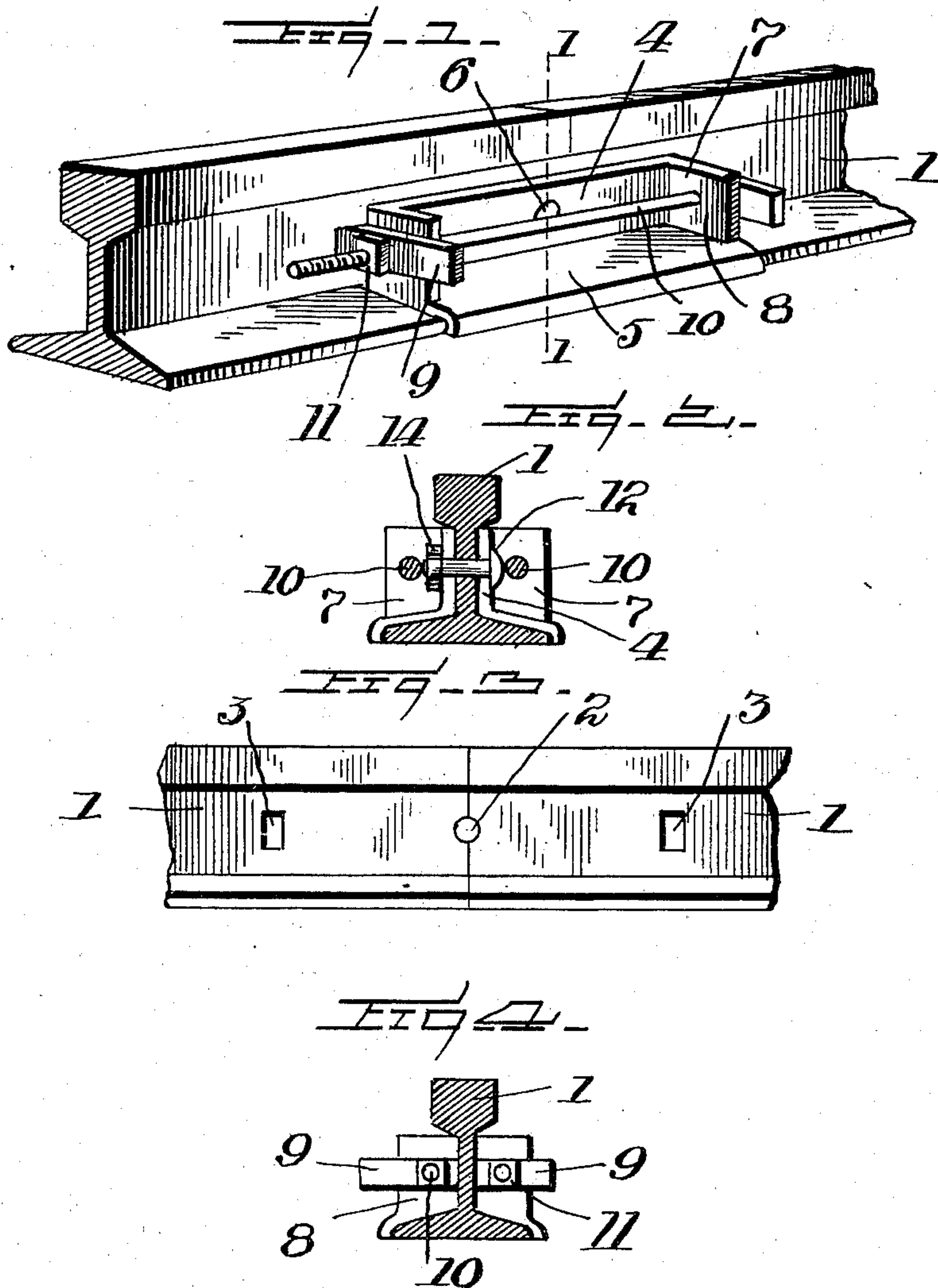
Patented June 10, 1902.

E. P. & H. C. HUNTER.

RAIL JOINT.

(Application filed Feb. 26, 1902.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

EDGAR P. HUNTER AND HARRY C. HUNTER, OF PITTSBURG, PENNSYLVANIA.

RAIL-JOINT.

SPECIFICATION forming part of Letters Patent No. 702,215, dated June 10, 1902.

Application filed February 26, 1902. Serial No. 95,777. (No model.)

To all whom it may concern:

Be it known that we, EDGAR P. HUNTER and HARRY C. HUNTER, citizens of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Rail-Joints, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in rail-joints, and has for its object the provision of novel means whereby the ends of rails are securely fastened together.

15 The present invention has for its further object to provide a device that may be easily applied to the rails and readily detached therefrom when desired; furthermore, to provide a device that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

25 With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

30 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

35 Figure 1 is a perspective view of our improved rail-joint. Fig. 2 is a vertical sectional view thereof, taken on the line 1 1 of Fig. 1. Fig. 3 is a side elevation of the meeting ends of the rails with the rail-joint removed therefrom. Fig. 4 is an end view.

40 In the drawings the reference-numeral 1 represents the rails, having formed in the web thereof the semicircular opening 2. Openings 3 3 are also formed in the web of the rails. Fish-plates 4 carry the base-plate 5, which extend over the base of the rails. These fish-plates are also provided with a central opening 6, which corresponds with the opening 2. The ends of the fish-plates 4 carry outwardly-extending lugs 7, which are formed integral therewith and are apertured, as shown at 8. 50 Bars 9 extend through the openings 3, said

bars also being apertured on each end for the reception of the screw-threaded rod 10, said screw-threaded rod 10 passing through the apertures 8 and through the apertures formed in the bars. The ends of these screw-threaded rods receive fastening-nuts 11. In order to securely lock the opposite fish-plates together, we provide a locking-bolt 12, which extends through the opening 2 and through the central opening 6 to receive the nut 14 upon the opposite side.

The manner of securely locking the rails together, as well as the many advantages obtained by our invention, will be readily apparent from the foregoing description taken in connection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of our invention.

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

1. In a rail-joint, the combination with the rails having openings formed therein, bars extending through said openings, fish-plates carrying an integral base, lugs extending from said fish-plates, screw-threaded rods extending through said lugs and bars, and means to fasten said screw-threaded rods, substantially as described.

2. In a rail-joint, the combination with the rails having openings formed therein, bars extending through said openings, fish-plates carrying an integral base, lugs extending from said fish-plates, screw-threaded rods extending through said lugs and bars, means to fasten said screw-threaded rods, and a central bolt and nut to secure said fish-plates together, substantially as described, and for the purpose set forth.

In testimony whereof we affix our signatures in the presence of two witnesses.

EDGAR P. HUNTER.
HARRY C. HUNTER.

Witnesses:

JOHN NOLAND,
E. E. POTTER.