

No. 672,118.

Patented Apr. 16, 1901.

J. YESTER & W. C. SOLES.
RAIL JOINT.

(Application filed Oct. 16, 1900.)

(No Model.)

Fig. 1.

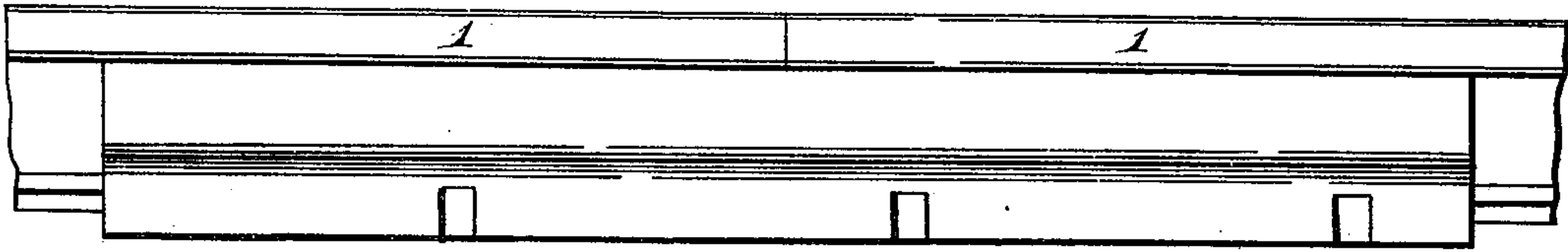


Fig. 2.

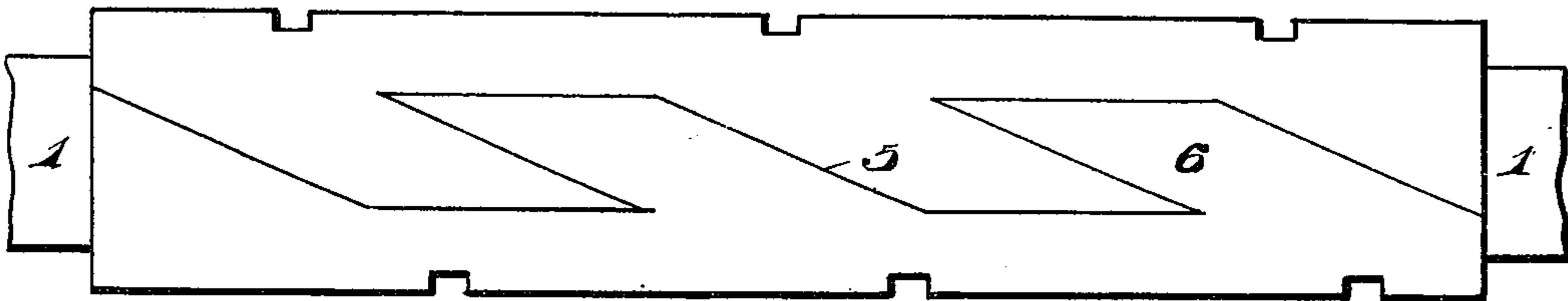


Fig. 3.

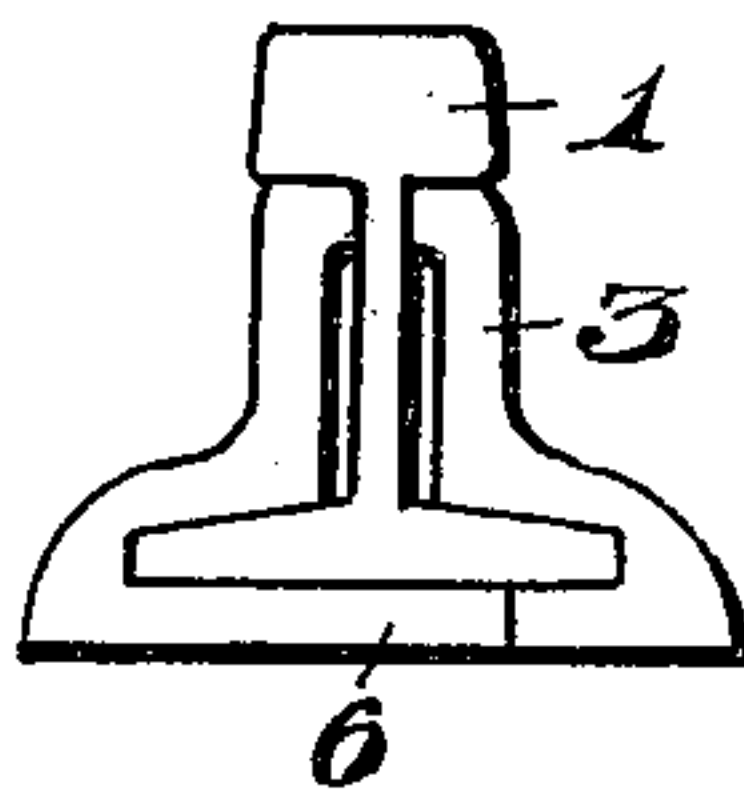


Fig. 4.

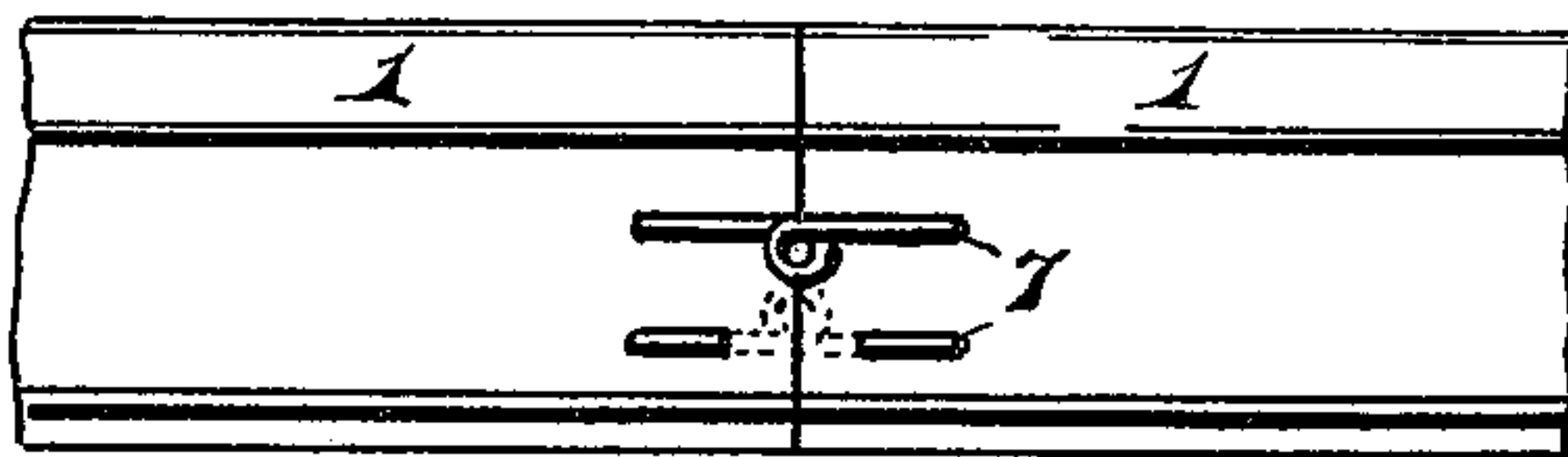


Fig. 5.

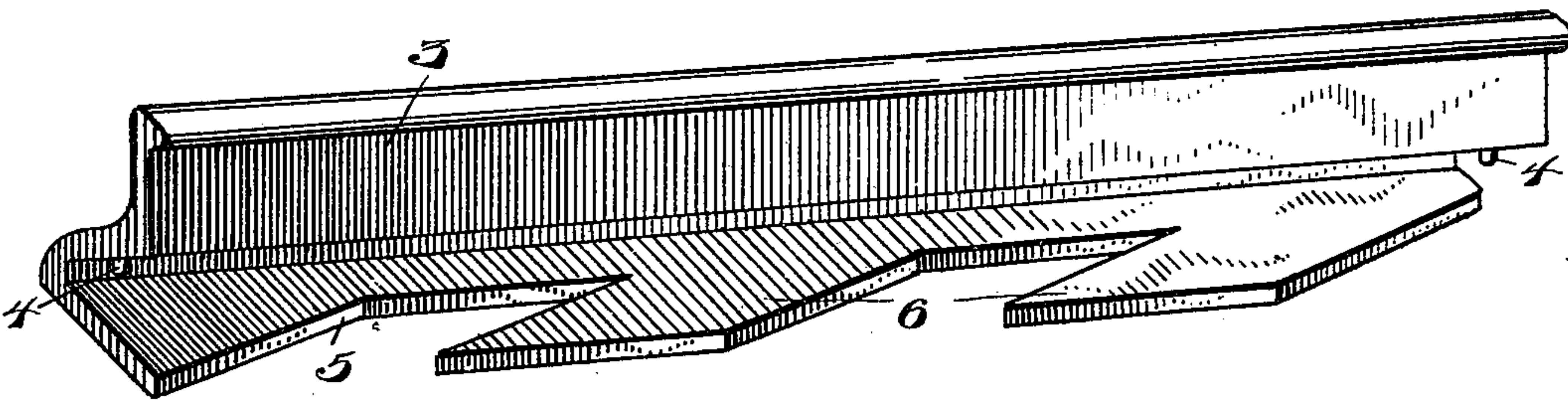
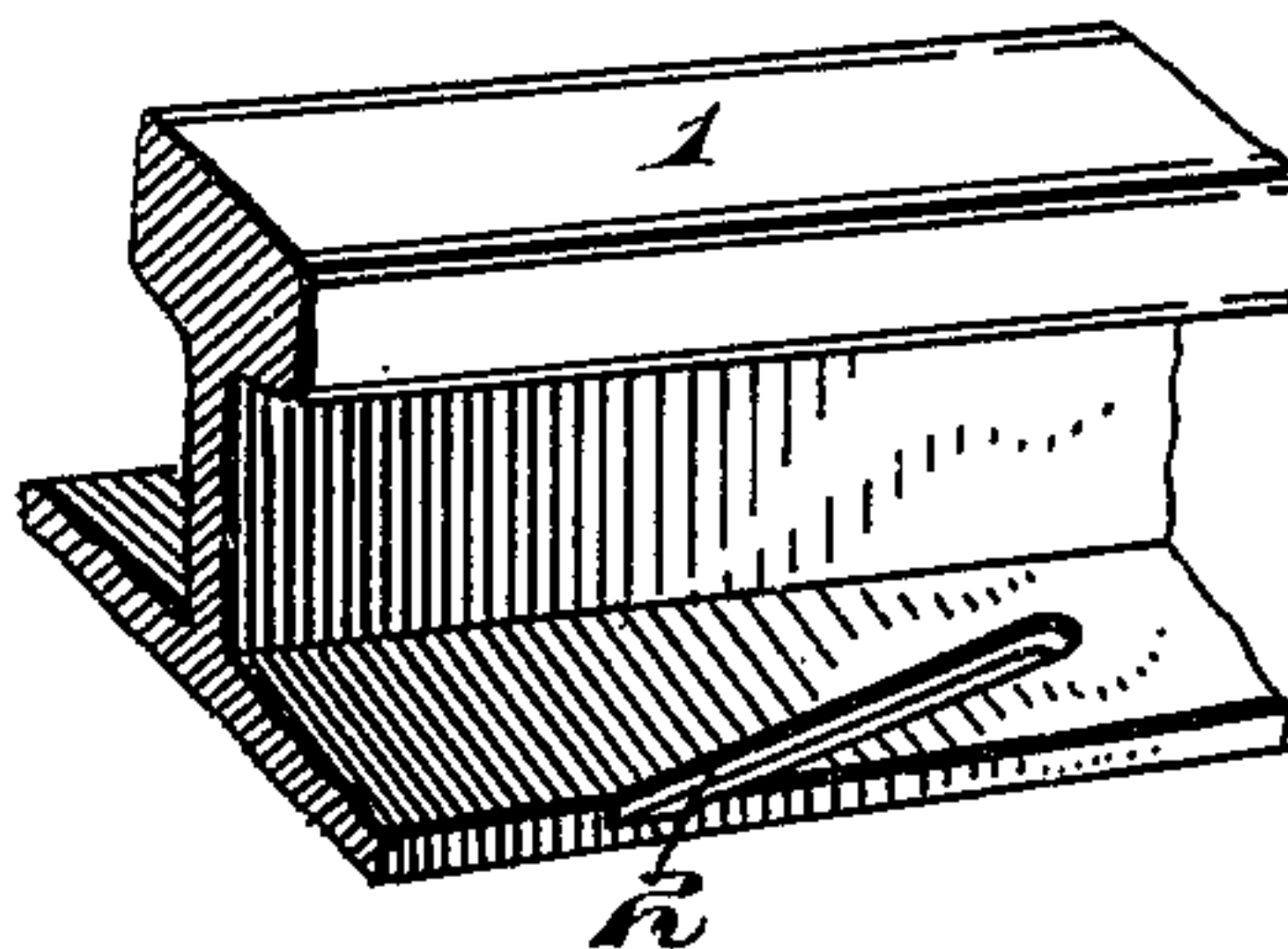


Fig. 6.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOSEPH YESTER AND WESLEY C. SOLES, OF McKEESPORT, PENNSYLVANIA.

RAIL-JOINT.

SPECIFICATION forming part of Letters Patent No. 672,118, dated April 16, 1901.

Application filed October 16, 1900. Serial No. 33,243. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH YESTER and WESLEY C. SOLES, citizens of the United States of America, residing at McKeesport, 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 one object the provision of novel means whereby the use of nuts and bolts is entirely dispensed with.

15 The invention has for its further object to construct a joint of this character which will be extremely simple, strong, durable, efficient in its use, and comparatively inexpensive to manufacture.

20 The invention consists in the combined fish-plate and chair formed in two interlocking sections and simultaneously locking the rail to said sections, thereby preventing any lateral displacement of the rails.

25 The invention further consists in the novel 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 part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

35 Figure 1 is a side elevation of two sections of a rail having our improved rail-joint secured thereto. Fig. 2 is an underneath plan view of the same. Fig. 3 is an end view. Fig. 4 is a side elevation of the rails, showing the rail-joint removed. Fig. 5 is an enlarged perspective view of one of the interlocking sections of the rail-joint. Fig. 6 is a perspective view of the rail.

45 In the drawings the reference-numeral 1 indicates the rails, said rail carrying a slot 2 in the base thereof, said slot extending at an angle to the rail. The reference-numeral 3 represents one of the interlocking sections of the combined fish-plate and chair, carrying on its inner face a downwardly-extending pin 4, formed integral therewith and adapted to engage in the slot 2 of the rail. 5 indicates a cut-away portion formed in the chair portion of the interlocking section, said cut-away portion extending at an angle, forming between

said cut-away portions a locking portion 6, which is adapted to be interlocked in the cut-away portions 5 of the opposite section. The reference-numeral 7 indicates a bond-tie of the ordinary construction.

60 The operation of our improved rail-joint is as follows: The interlocking sections are brought together and simultaneously therewith the pins 4 engage in the slot 2 of the rail and lock the sections thereto. The sections 65 are then spiked or otherwise suitably fastened to the ties.

It will be noted that by the use of our improved rail-joint the bond-tie is also protected in such a manner as to prevent the same from being dislodged or stolen or tampered with.

70 The many advantages obtained by the use of our improved rail-joint will be readily apparent from the above description taken in connection with the accompanying drawings, 75 and it is thought a further detailed description is unnecessary.

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

1. In combination with the rails having slots 85 in the upper surfaces of the bases extending inwardly from the edges, a chair comprising two sections having interlocking tongues, fish-plates formed with the sections of the chair with intervening ways for the base-flanges of the rails, pins depending into the ways and riding in the slots of the bases, as and for the purpose described.

2. In a rail-joint, a combined chair and fish-plate comprising two interlocking chair-sections each having the integral upwardly-extending sections forming the fish-plates and having therebetween ways for the base-flange; pins depending into the ways and in combination rails having slots in the upper surfaces of the base-flanges to retain the pins, substantially as described.

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

JOSEPH YESTER.
WESLEY C. SOLES.

Witnesses:

JOHN NOLAND,
H. C. EVERT.