No. 765,132. PATENTED JULY 12, 1904.

J. S. DOMACHOWSKI.

RAIL JOINT.

APPLICATION FILED APR. 25, 1904.

NO MODEL.

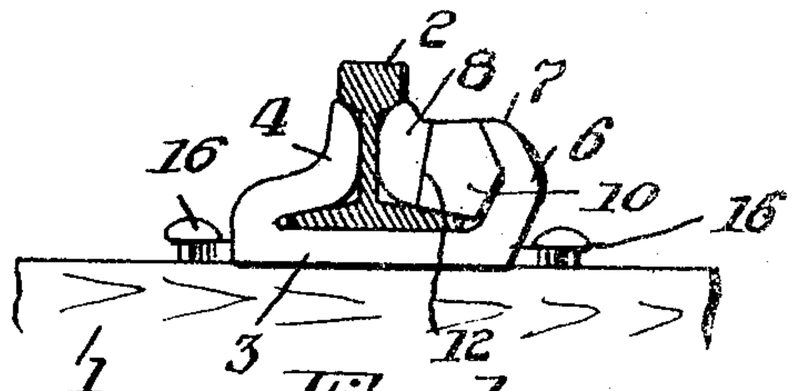

Fig. 1.

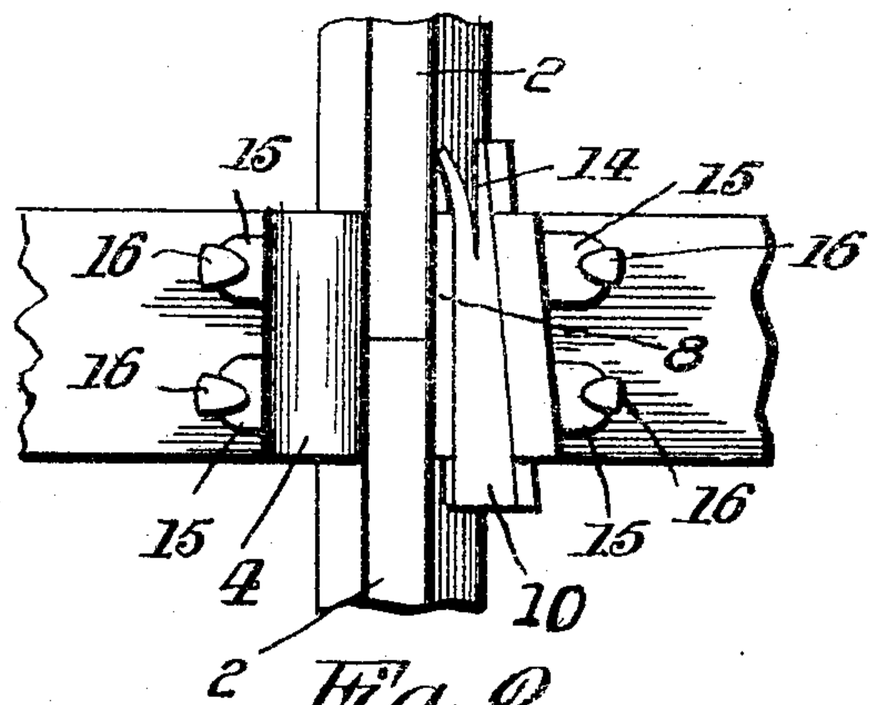

Fig. 2.

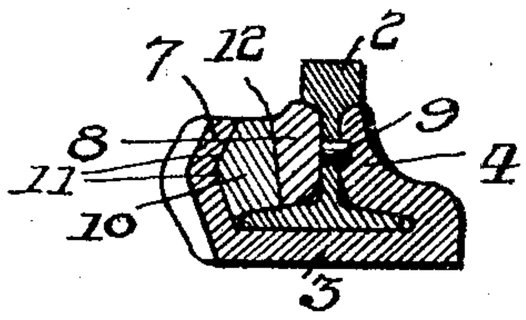

Fig. 3.

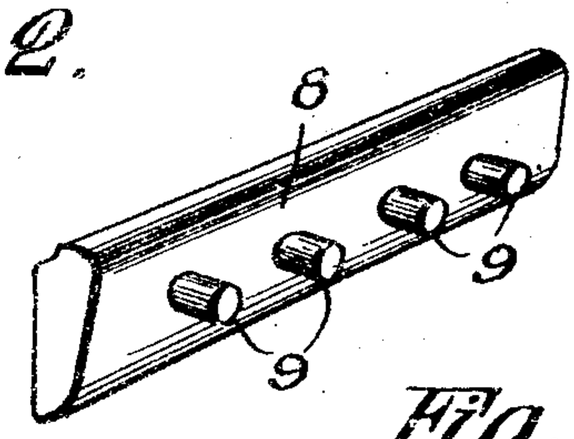

Fig. 4.

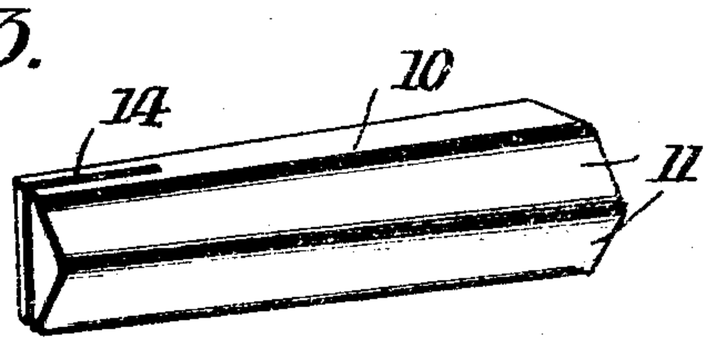

Fig. 5.

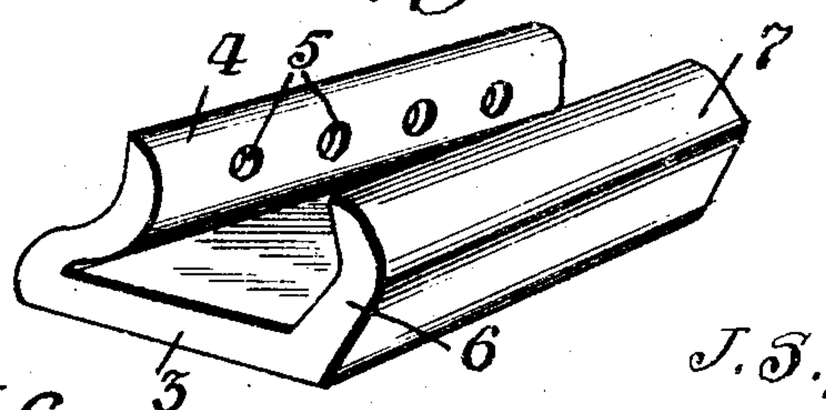

Fig. 6.

Witnesses:
H. H. Butler
E. Potter.

Inventor,
J. S. Domachowski,
By A. C. Evert & Co.
Attorneys.

No. 765,132. Patented July 12, 1904.

UNITED STATES PATENT OFFICE.

JOHN S. DOMACHOWSKI, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO FRIEDRICH QUERNER, OF PITTSBURG, PENNSYLVANIA.

RAIL-JOINT.

SPECIFICATION forming part of Letters Patent No. 765,132, dated July 12, 1904.

Application filed April 25, 1904. Serial No. 204,697. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. DOMACHOWSKI, a citizen 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.

This invention relates to certain new and useful improvements in rail-joints, and has for its object the provision of novel means whereby two sections of rails are securely joined together without the use of nuts and bolts.

My invention further aims to provide a rail-joint of the above-described character that will be simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

The invention further consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

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

Figure 1 is a vertical sectional view of a rail, showing my improved joint in end elevation secured to the rail. Fig. 2 is a top plan view thereof. Fig. 3 is a vertical sectional view of the rail and joint. Fig. 4 is an enlarged perspective view of the removable fish-plate. Fig. 5 is a similar view of the locking wedge or key. Fig. 6 is a perspective view of a novel form of chair employed in connection with my improved rail-joint.

In the drawings the reference-numeral 1 represents a cross-tie, and 2 the rails. A chair 3 is formed of a base and an integral fish-plate 4, the latter having a number of recesses 5, forming seats, arranged therein. The base of the chair carries on the opposite side of the fish-plate an upwardly-extending flanged portion 6, which is slightly inclined outwardly at an angle and gradually tapers from one end of the base-plate to the other. The said flanged portion has formed integral therewith an inwardly-extending flange 7. A removable fish-plate 8 carries integral pins 9, the latter extending through the web of the rails and are lodged in the seats 5 of the integral fish-plate 4. A key or wedge is referred to by reference-numeral 10, said key having a tapered body portion and inclined faces 11, which conform to the inner face of the flanges 6 and 7 of the chair, and a flat slightly-beveled inner face, as shown at 12, said key or wedge being formed with a split end 14, which when bent in the manner as illustrated in Fig. 2 will securely lock the rails in position.

It will be seen that the rail may be easily placed in position upon the chair, and the removable fish-plate is then inserted in the manner as heretofore described. The wedge or key, by means of a sledge or other instrument, is then driven home in position, the ends of the key being bent outwardly. The chair may be secured upon the cross-tie in any suitable manner; but I preferably provide integral lugs 15, having notches formed therein to receive spikes 16, which are secured in the cross-ties 1.

The many advantages obtained by the use of my improved rail-joint will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

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

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

1. In a rail-joint, the combination with the rails, a chair having one of its sides beveled, a removable fish-plate carrying pins extending through said rails and into said chair, and a locking-wedge adapted to engage the beveled side of said chair, substantially as described.

2. In a device of the character described, the combination of a chair carrying an integral fish-plate having recesses formed therein, an integral beveled flange arranged opposite to said integral fish-plate, an inwardly-

extending flange formed integral with said latter flange, a removable fish-plate carrying integral pins extending through the rail and lodged in said recesses of the integral fish-plate, a tapered key, beveled sides formed on said tapered key engaging the inner faces of said flanges, and means whereby said chair is secured, all parts being arranged and operating substantially as described, and for the purpose set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN S. DOMACHOWSKI.

Witnesses:

H. C. EVERT,

WM. C. HEITZ.