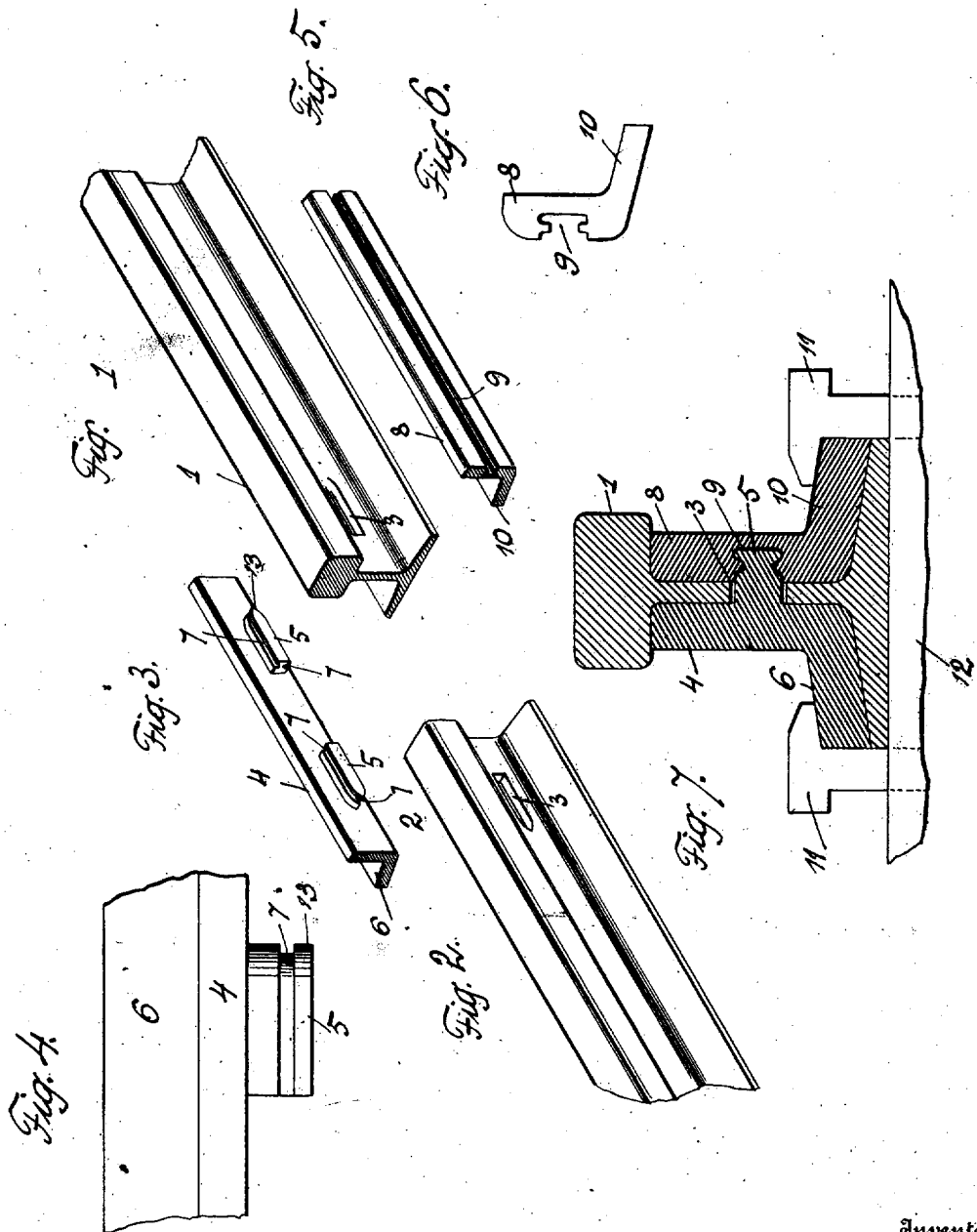


No. 892,191.

PATENTED JUNE 30, 1908.

S. SHULLER.
RAIL JOINT.

APPLICATION FILED SEPT. 27, 1907.



Witnesses
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UNITED STATES PATENT OFFICE.

SIMON SHULLER, OF PITTSBURG, PENNSYLVANIA.

RAIL-JOINT.

No. 892,191.

Specification of Letters Patent.

Patented June 30, 1908.

Application filed September 27, 1907. Serial No. 394,820.

To all whom it may concern:

Be it known that I, SIMON SHULLER, a subject of the King of Hungary, residing at Pittsburgh, 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 drawing.

10 This invention relates to rail joints, and its object is to provide novel and effective means for connecting the meeting ends of railway rails without the employment of bolts and nuts.

15 The invention consists of a splice-bar formed with projecting tongues adapted to extend through openings in the web portions of the rails, and a fish plate formed with a groove to receive the tongues of the splice-
20 bar.

The construction of the improvement will be fully described hereinafter in connection with the accompanying drawing which forms a part of this specification, and its novel features will be defined in the appended claims.

25 In the drawing:—Figure 1 is a perspective view of one of the rails to be connected, Fig. 2 is a similar view of the other rail, Fig. 3 is a perspective view of the improved splice-bar, Fig. 4 is a top plan view of the splice bar on an enlarged scale, Fig. 5 is a view in perspective of the grooved fish plate, Fig. 6 is an end elevation of the fish plate, and, Fig. 7 is a transverse vertical section of the improve-
35 ment applied to a rail.

The reference numerals 1 and 2 designate the rails to be joined together, each formed in its web portion with an elongated slot 3 having a tapering inner end and a squared outer
40 end.

The splice bar consists of a vertical portion 4 having tongues 5 projecting from its inner side, and a flange 6 adapted to rest upon the bases of the meeting rails. The tongues 5
45 correspond in shape to the elongated slots 3 in the rails, and are grooved throughout their length on their upper and lower sides as shown at 7, the tongues are so disposed with

respect to the splice bar that the tapered end of a tongue will be arranged in proximity to a vertical edge of the splice bar. After the splice bar has been applied to the rails it is locked in place by a fish-plate consisting of a vertical portion 8 formed on its inner side with a groove 9 and a base flange 10 resting
55 on the bases of the rails. The groove 9 of the fish-plate corresponds in cross section to the cross-sectioned contour of the grooved tongues 5, adapting the fish-plate to readily slide into locking engagement with said
60 tongues, after which the splice-bar and fish-plate are firmly secured by spikes 11 driven into the tie 12.

It will be apparent that the improvement affords a secure connection of the rails without employing either bolts or nuts, and that the parts may be quickly connected and dis-
65 connected.

The ends 13 of the tongues 5 are preferably tapered to adapt them to readily enter the
70 groove in the fish plate.

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

The combination with the meeting ends of railway rails, each formed with a slot in its web portion, said slot having a tapering inner end and a squared outer end, of a splice bar provided with projecting tongues extending through said slots, said tongues having a tapering outer end and a squared inner end and further provided with longitudinally extending grooves, said tongues adapted to extend through said slots, and a fish plate formed with a longitudinal groove having the
85 wall thereof provided with tongues adapted to engage in the grooves of said tongues whereby the splice bar and fish plate and rail sections are connected together.

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

SIMON SHULLER.

Witnesses:

A. H. RABSIEG,
MAX H. SROLOVITZ.