

J. K. SMITH.  
RAILROAD SPLICE BAR.  
APPLICATION FILED SEPT. 29, 1910.

998,415.

Patented July 18, 1911.

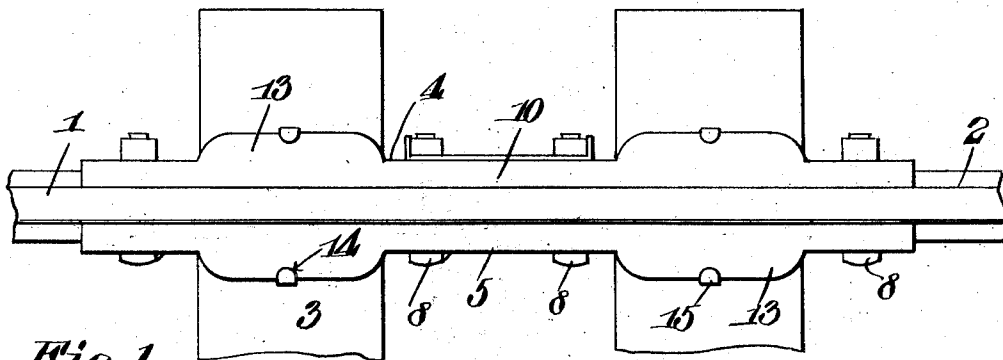


Fig. 1.

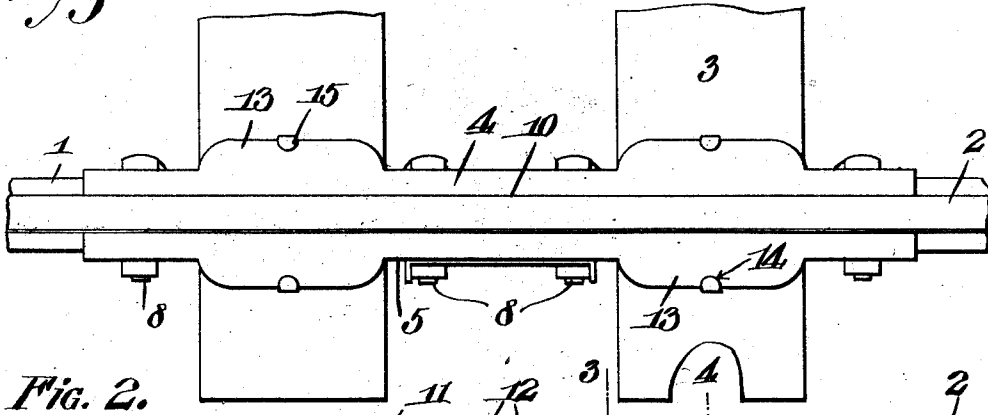
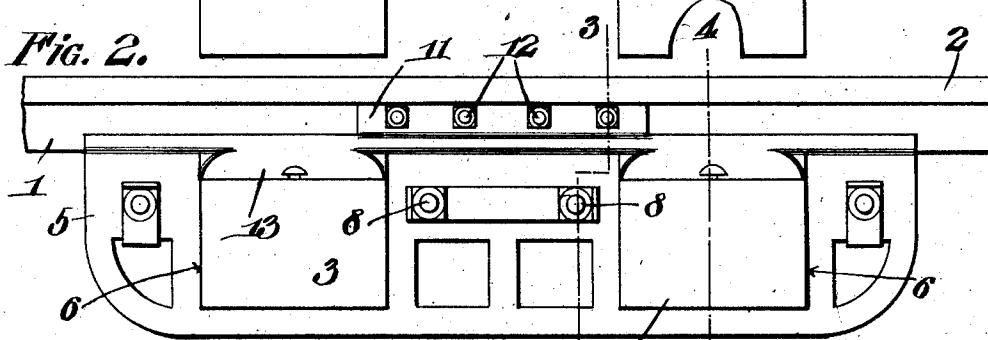


Fig. 2.



Witnesses  
V. B. Salt. Fig. 3.  
Edmundson Jr.

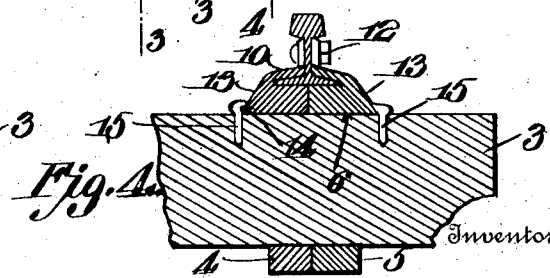


Fig. 4.  
Inventor  
John K. Smith,  
By Victor J. Evans.  
Attorney

# UNITED STATES PATENT OFFICE.

JOHN K. SMITH, OF WALTHILL, NEBRASKA.

RAILROAD SPLICE-BAR.

998,415.

Specification of Letters Patent. Patented July 18, 1911.

Application filed September 29, 1910. Serial No. 584,508.

*To all whom it may concern:*

Be it known that I, JOHN K. SMITH, a citizen of the United States, residing at Walthill, in the county of Thurston and State of Nebraska, have invented new and useful Improvements in Railroad Splice-Bars, of which the following is a specification.

This invention relates to railroad splice bars and the object of the invention is the provision of simple and efficient means for connecting and supporting the separate ends of railroad rails upon the ties.

A further object of the invention is the provision of a novel splice bar which absolutely prevents spreading of the ties which support the splice bar.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawing which forms a part of this application and in which:

Figure 1 is a top plan view. Fig. 2 is a side elevation. Fig. 3 is a section on the line 3—3 of Fig. 2. Fig. 4 is a section on the line 4—4 of Fig. 2.

Referring more particularly to the drawings, 1 and 2 represent the separate ends of the rails which are to be connected and which are supported by the separated ties 3, the joint between the rail being arranged intermediate the said ties and supported by the device which will now be described.

The connecting device comprises separate members 4 and 5 each having registering apertures 6 adjacent their ends to receive and permit the passage of the ties 3. The members 4 and 5 are also provided with registering apertures 7 to receive the bolts 8 and 8<sup>a</sup>, the former extending through the members by the apertures 7 and the latter extending through the members adjacent their ends. These members are brought together beneath the rails, as shown in Fig. 3 and have extending inwardly and upwardly from their tops the base engaging flanges 10 which have integral therewith the fish plate flanges 11. The flanges 10 overlie the base of the rails and the fish plate flanges 11 are bolted to the webs of the rails in the ordinary manner by bolts immediately over the apertures 6. The members are provided with wedge shaped flanges 13 whose lower

wall is flush with and forms a part of the upper walls of the apertures 6. The flanges 13 are provided with notches 14 adapted to receive entering spikes 15. The fish plate flanges 11 are arranged in the center of the device and have their ends terminating at a point just above the inner walls of the apertures 6. The flanges 10, however, extend on beyond the flanges 13 to the end of the device.

In applying the attaching device the inner member is first slipped upon the ties and placed in position against the ends of the rails with the flange 10 overhanging the base of the rails and the apertures in the fish plate flange registering with the apertures in the rail as is customary. The outer member is then placed in position and bolted to the inner member by the bolts 8 and 8<sup>a</sup>, after which the bolts 12 are inserted through the fish plate flanges, so that the rails are prevented from relative endwise movement with the connecting device.

In this type of device it will be noticed that two ties are utilized for connecting the joint chair and that these ties are prevented from relative separation and also from transverse movement with respect to the rail by the spikes 15.

Having thus described the invention, what is claimed is—

A rail splicing device comprising a pair of members having registering apertures adjacent their ends adapted to receive supporting ties, rail base engaging flanges extending from end to end of said members, fish plate flanges integral with said rail base flanges and having apertures, bolts passing through said apertures to secure the flanges to the webs of the rails, said fish plate flanges terminating above the inner walls of the tie apertures and notched flanges arranged over said apertures and forming a continuation of the upper walls thereof, together with bolts to connect the separate members together.

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

JOHN K. SMITH.

Witnesses:

C. M. MATHEWSON,  
J. E. BOTTOMLEY.