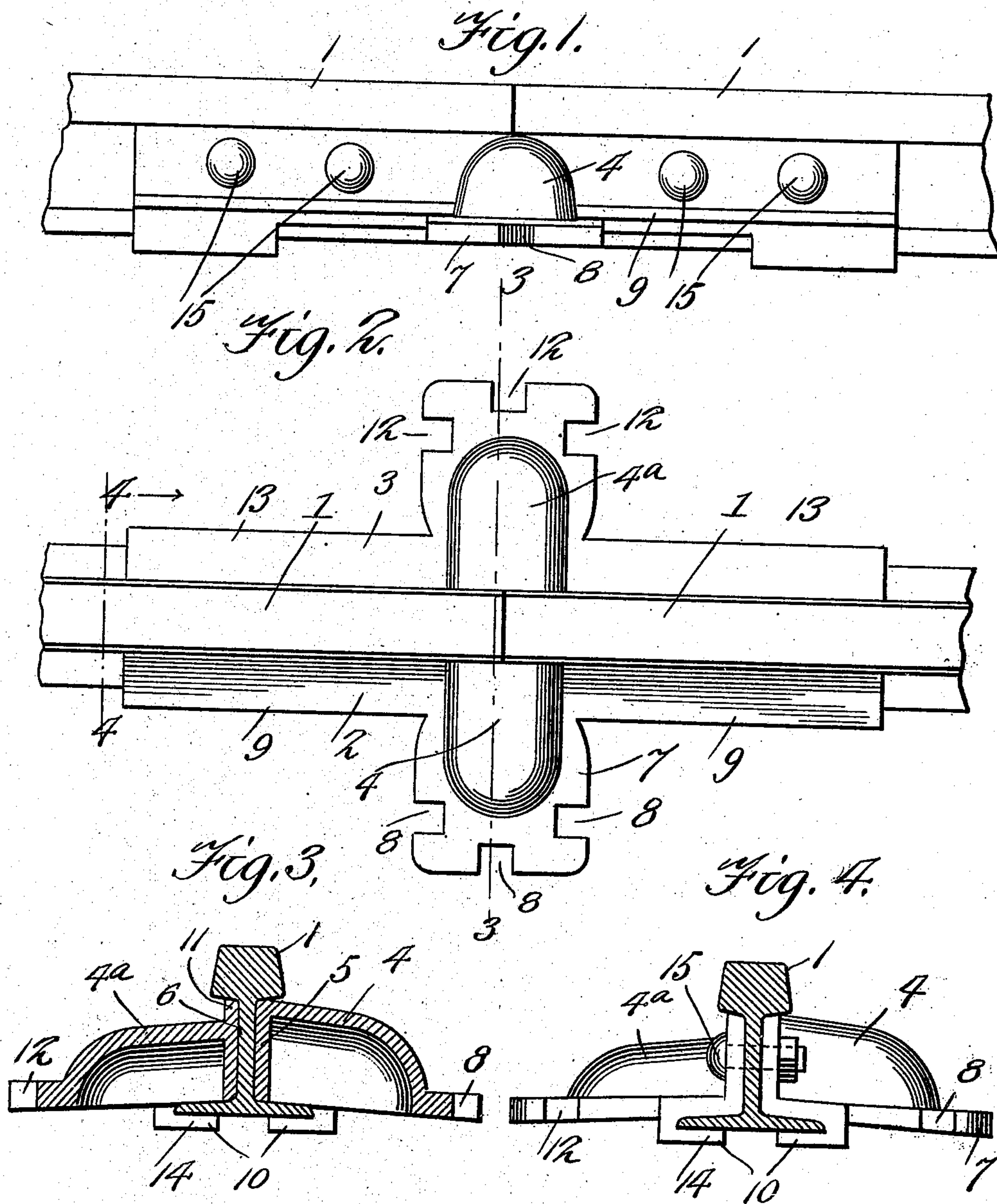


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PATENTED APR. 21, 1908.

W. C. CROSBY.
RAIL SPLICE.

APPLICATION FILED APR. 2, 1907.



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WILLIAM C. CROSBY, OF CYRIL, FLORIDA.

RAIL-SPLICE.

No. 885,666.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed April 2, 1907. Serial No. 365,982.

To all whom it may concern:

Be it known that I, WILLIAM C. CROSBY, a citizen of the United States of America, residing at Cyril, in the county of Alachua and State of Florida, have invented new and useful Improvements in Rail-Splices, of which the following is a specification.

This invention relates to rail splices, and one of the principal objects of the same is to provide a strong, durable and efficient splice for the meeting ends of railway rails to prevent spreading, creeping or sinking of the rails at the joint.

Another object of the invention is to provide a rail splice in which the joint of the rails is braced laterally by angular extensions adapted to be spiked to a central tie and by means of flanges at the ends of the splice bars which pass under the base flanges of the rails.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of a rail splice made in accordance with my invention. Fig. 2 is a plan view of the same. Fig. 3 is a section on line 3—3, Fig. 2. Fig. 4 is a section on the line 4—4, Fig. 2, looking in the direction indicated by the arrow.

Referring to the drawing for a more particular description of my invention, the numerals 1 designate the meeting ends of a pair of railway rails, 2 is the outer splice bar, and 3 is the inner splice bar. The outer splice bar consists of a central hollow brace 4 provided with a flange 5 which fits snugly against the web portion 6 of the rail ends between the base flange and the under surface of the tread portion. The brace 4 is formed integral with the base portion 7 projecting outward therefrom and provided with suitable spike apertures 8. Extending in opposite directions from the brace 4 are the base flange portions 9, near the opposite ends of which inwardly projecting flanges 10 are provided which pass underneath the base flanges of the rails. The inner splice bar 3 is provided with a hollow brace 4^a of less

height than the brace 4 and provided with a projecting flange 11 which bears under the tread portion of the rail, said member 3 also having an extended portion provided with spike apertures 12, and outwardly extending flanges 13 having inwardly extending lugs or flanges 14 at their opposite ends which engage the under surface of the base flange of the rails. The brace 4 is larger than the brace 4^a and said brace 4 being located upon the outer side of the rail joint has a tendency to prevent the spreading of the rails at this point.

From the foregoing it will be obvious that when the splice bars are secured to the rail joint by means of the bolts 15, the rails are braced against spreading by means of the braces 4, 4^a, and the spiked extensions therefrom connected to a cross tie, while the rail ends are prevented from creeping or sinking by the splice bars and the flanges 10, 14, at the ends thereof. The joint is also prevented from sinking by the construction of the spike extensions shown.

Having thus described the invention, what I claim is:

The herein described rail joint comprising splice bars connected to opposite sides of the rail ends, each of said splice bars being provided with a hollow central brace provided with extensions having spike apertures therein and adapted to be connected to a central cross tie, the outer brace being larger than the inner one, said outer brace bearing against the underside of the head of the rail and the inner brace having a flange extending up under the lower side of the head of the rail, flanges at the ends of the splice bars, said flanges extending inwardly to engage underneath the base flanges of said rails, and bolts extending through the splice bars, substantially as described.

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

WILLIAM C. CROSBY.

Witnesses:

SOL. WARREN,
B. F. DAWKINS.