C. L. McVOY.

DEVICE FOR PREVENTING SPREADING OF RAILS.

APPLICATION FILED DEC. 14, 1907.

899,426. Patented Sept. 22, 1908.

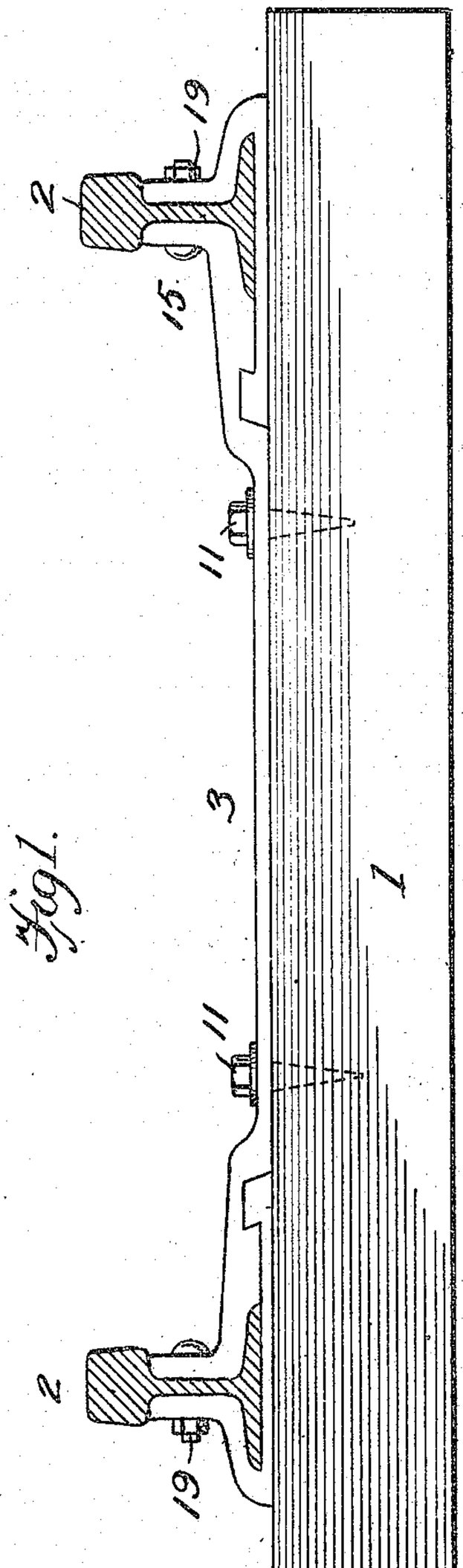


Fig 1.

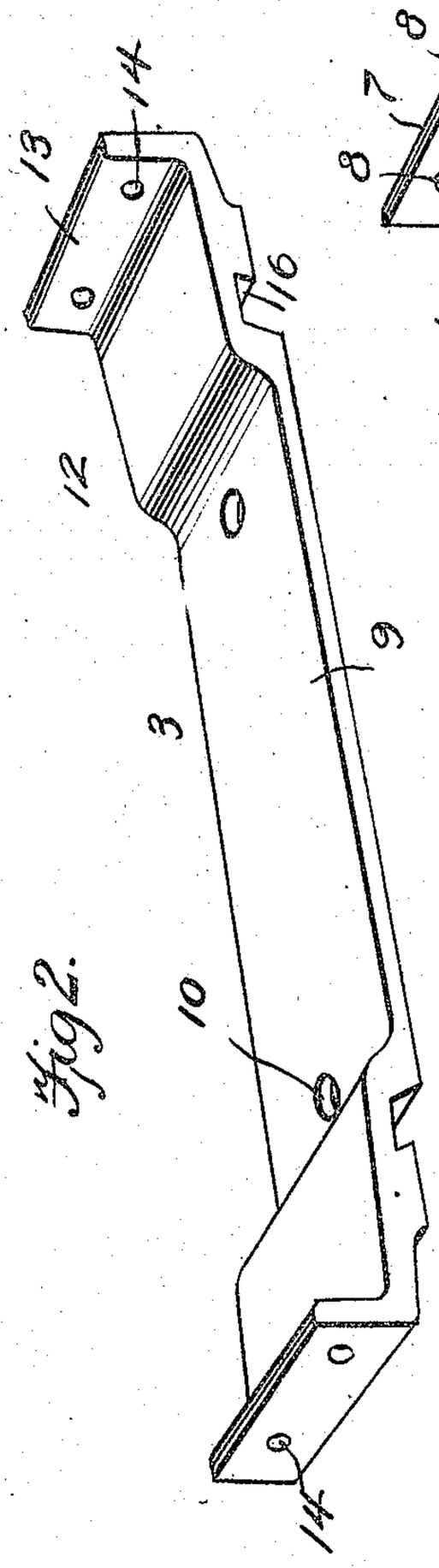
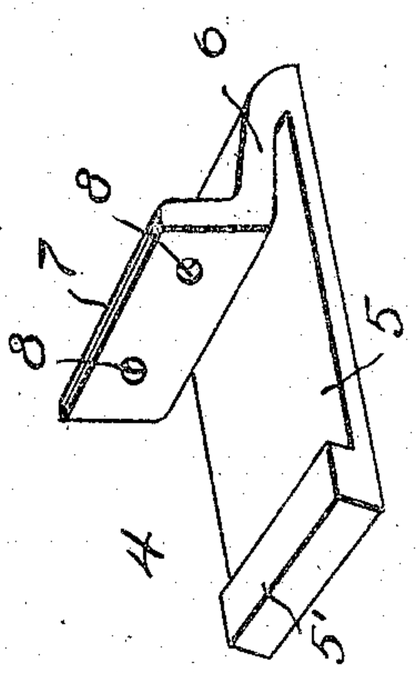


Fig 2.



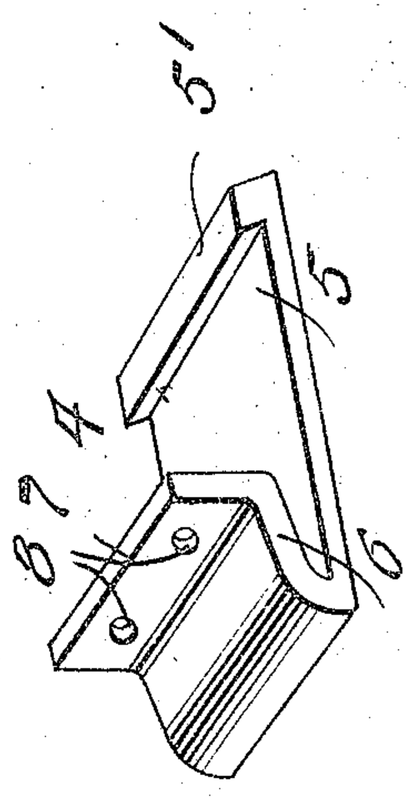


Fig 3.

Witnesses

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DEVICE FOR PREVENTING SPREADING OF RAILS.

No. 899,426. Specification of Letters Patent. Patented Sept. 22, 1908.

Application filed December 14, 1907. Serial No. 406,464.

To all whom it may concern:

Be it known that I, CHARLES L. McVOY, a citizen of the United States, residing at Pensacola, in the county of Escambia and State of Florida, have invented new and useful Improvements in Devices for Preventing Spreading of Rails, of which the following is a specification.

This invention relates to devices for splicing the meeting ends of railway rails and preventing the spreading of the rails, and the object of the invention is to provide a device of this character which is extremely simple in construction and which accomplishes the objects for which it is intended effectively and with certainty.

To these ends the invention resides in the novel construction of devices hereinafter fully described and claimed.

In the drawings, Figure 1 is a cross sectional view of a pair of rails provided with my improvement. Fig. 2 is a perspective view of the spreader and coupling device, and Fig. 3 is a detail perspective view of the rail chairs.

In the accompanying drawings the numeral 1 designates an ordinary rail tie supporting a pair of railway rails 2.

The device employed in carrying out my invention comprises an intermediate bar 3 and a pair of rail chairs 4 connecting the tie bar.

The rail chairs 4 comprise a body portion 5 provided upon one of its ends with an inclined upwardly extending head 5′, of a length equaling the width of the rail chair, and at its opposite ends with an inwardly inclined portion 6 provided with a vertical wall 7 having a series of perforations 8 for the reception of retaining elements by which the chair is secured to a rail. The inclined portion of the rail chair 6 and the vertical wall 7 are of a shape coinciding with the base of the rail which they are adapted to engage.

The tie bar 3 of my device, comprises a body portion 9 of a width approximately equaling that of the rail tie 1, and is provided with a series of perforations 10 adapted for the reception of screw bolts 11, or other suitable retaining devices by which the bar is secured upon the rail tie. Upon each of its ends the tie bar 9 is provided with an enlarged portion 12 terminating in a vertical wall 13 having openings or perforations 14 for the reception of bolts 15 by which it is secured upon the web of the rail opposite the vertical wall 7 of the rail chair. The inner face of the vertical wall 13 of the tie bar is of a width equaling that of the web of a rail, and the lower edge of the enlargement 12 of the tie bar is cut away to form a seat for the base of the rail, and is further provided with a laterally extending inclined groove 16 coinciding with the cross sectional shape of the inclined head 5′ of the rail chair, with which it is adapted to engage.

In assembling my device the rail chair 4 is first placed upon the tie 1, the webs of the meeting ends of rails adapted to be secured together and prevented from spreading, have their outer faces bearing against the vertical wall 7, and the base of the rails lying upon the rail chair and beneath the inclined walls 6 of the chair. The tie bar 3 is now brought into position, the inclined slot 16 engaging with the inclined enlargement 5′ of the chair, and the vertical wall 13 of the tie abutting against the webs of the rails opposite those engaged by the vertical wall 7 of the chair. The webs of the rails, it will be understood are provided with suitable openings, coinciding with the openings 8 of the rail chair and the openings 14 of the tie bar, and the bolts 15 are adapted to be inserted within these openings and to be retained in position by suitable nuts 19, thus securing the tie bar, the meeting ends of the rails and the rail chair together. The retaining elements 11 are inserted within the openings 10 provided upon the body of the tie bar, and this element securely retained in position upon the rail tie.

While I have thus far described my improvement particularly as a means for connecting the meeting ends of rails and preventing their spreading, it will be understood that the device may be positioned at any desired point upon a railroad track to prevent spreading of the adjacent rails.

From the above description it will be noted that I have provided a cheap and efficient means for securing the meeting ends of railway rails, which prevents the spreading of the rails, which is easily applied to a rail tie and which can be readily disconnected and removed when desired.

Having thus fully described the invention what is claimed as new is:

1. A pair of rail chairs, each having a face portion adapted to be positioned adjacent the outer webs of the rail and to engage the under surface of the head of the rail, an overlying bevel flange engaging portion and a body

portion beneath the base flange of the rail provided with a head, and a tie bar having each end provided with a face portion adapted to be positioned adjacent the inner web of the rail and to engage the under face of the head of the rail and having its body provided with channels adapted to engage the heads of the chairs, and means for securing the tie bar, rails and rail chairs together.

2. The combination with the meeting ends of railway rails and a rail tie, of a rail chair having a vertical face engaging the outer web portion of the rails, and provided with a body portion adapted to underlie the base of the rail and having an inclined upwardly projecting head at its end, and a tie bar having enlarged ends providing rail engaging faces and having inclined channels adapted for engagement with the inclined projections upon the rail chairs, means for securing the rail chairs, rails and tie bar together, and means for securing the tie bar upon the rail tie.

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

CHARLES L. McVOY.

Witnesses:
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