

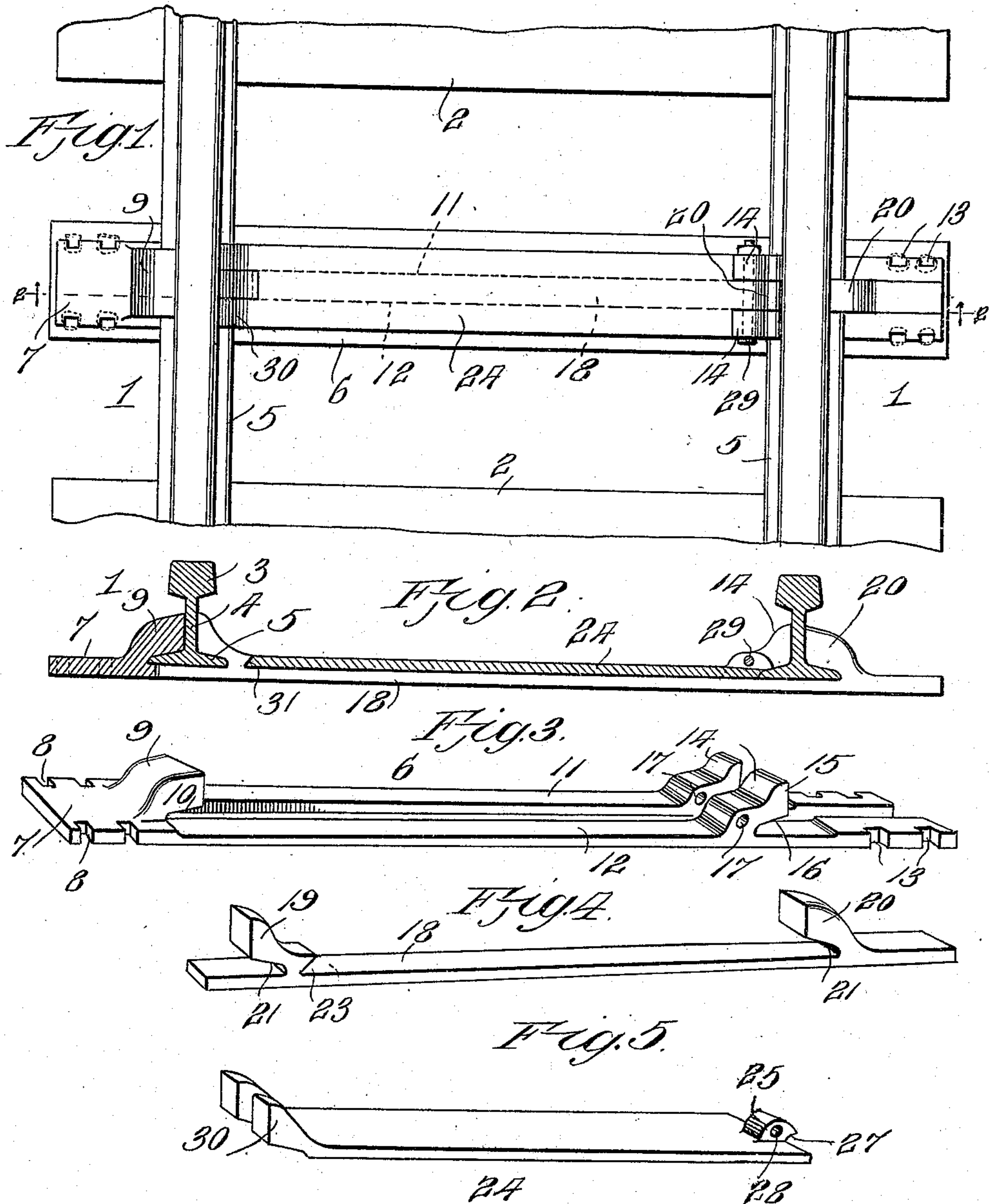
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CLAMP.

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924,478.

Patented June 8, 1909.



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CLAMP.

No. 924,478.

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To all whom it may concern:

Be it known that I, GUSTAVUS A. LINTOW, a citizen of the United States, residing at La Moine, in the county of Shasta and State of California, have invented new and useful Improvements in Clamps, of which the following is a specification.

This invention relates to combined clamps and anti-spreading devices for railway rails, and the object of the invention is to provide a device of this character which is comparatively simple in construction, easily placed in position and which will effectively accomplish the purposes for which it is designed.

With the above and other objects in view which will be more apparent as the description progresses the invention resides in the novel construction and arrangement of parts hereinafter fully described and claimed.

In the accompanying drawing, I have shown a simple and preferred embodiment of the invention, it being understood, however, that no limitation is necessarily made to the precise construction therein exhibited, but that changes, alterations and modifications within the scope of the invention may be resorted to when desired.

In the drawing, Figure 1 is a top plan view of a pair of rails illustrating the improvement in applied position thereon. Fig. 2 is a longitudinal sectional view upon the line 2—2 of Fig. 1. Fig. 3 is a perspective view of the main plate. Fig. 4 is a similar view of the intermediate plate. Fig. 5 is a similar view of the locking plate.

In the accompanying drawing the numerals 1 designate a pair of railway rails, and 2 the ties upon which the rails are supported. The rails 1 are constructed in the ordinary manner and comprise each a head 3, web 4 and base flanges 5.

The numeral 6 designates the main plate of the improved device. This plate 6 has one of its ends 7 provided with a plurality of notches 8 adjacent each of its sides, and is provided with an upwardly extending offset portion or head 9. The head 9 has its lower face inclined rearwardly as designated by the numeral 10, and this inclined portion is adapted to overlies and to correspond with the cross sectional contour of the outer portion of the flange 5 of one of the rails. This head portion 9 is positioned intermediate the extending end portion 7 and projecting longitudinally adjacent the outer faces of the head are the longitudinal pro-

jecting members 11 and 12. These members 11 and 12 are formed integrally with the remainder of the plate and have their outer edges notched as designated by the numeral 13. The extensions or members 11 and 12 are each provided with integrally formed upwardly projecting heads or offsets 14. These offsets align with each other and are each provided with a face portion 15 adapted to abut against the web of the rail adjacent to that engaged by the head 9. The under inclined faces 16 of the heads or projections 14 are adapted to correspond with the cross sectional contour and to engage the web of the inner portion of the rail flange, and these members 14 are provided with transverse alining openings 17, the purpose of which will hereinafter be described.

The numeral 18 designates the intermediate plate of the device. This plate 18 is of a width equal to the distance between the members 11 and 12 and is of a thickness also corresponding with that of these members. The intermediate plate 18 is provided with a pair of heads or projections 19 and 20. The faces of these heads face in the same direction and directly opposite to the faces provided by the heads 9 and 14 of the main plate 6. The heads 19 and 20 are each provided with vertical faces adapted to engage the webs of the rails opposite to that engaged by the heads 9 and 14, and are each provided with an inclined downwardly extending wall or face 21 corresponding to that cross sectional contour of the base flanges of the rails with which they are adapted to engage. The intermediate plate 18 is of a length corresponding to that of the channel between the members 11 and 12 of the plate 6, so that the base flanges of the rails will be seated upon portions of this plate as well as upon the members of the main plate. The head or projection 19 at the rear of the wall 21 is inclined as designated by the numeral 23, for a purpose hereinafter to be described.

The numeral 24 designates the locking plate of the device. This locking plate 24 is of a width corresponding to that of the main plate 6 and has one of its ends provided with an intermediate upwardly projecting head 25. This head 25 is of a width equaling the distance between the heads 14 of the members 11 and 12 and is provided with an inclined inwardly extending face 27 of a shape corresponding to a portion of the inclined

face of the base flange of the rail which it is adapted to engage. The head 25 is also provided with a transverse opening 28, and this opening is adapted to aline with the opening 17 of the heads 14 and to receive a bolt or other retaining device 29, by which the plate 24 is secured upon the remainder of the device. The opposite end of the locking plate 24 is provided with a pair of spaced upwardly and forwardly projecting heads 30. These heads 30 have vertical faces which are adapted to engage the inner portion of the web contacted by the head 19 of the intermediate plate 18, and the heads 30 are also provided with inclined under faces corresponding to the cross sectional contour of the portion of the base flange 5 of the rail which it is adapted to engage. The heads 30 are spaced a distance apart equaling the width of the head 19 of the plate 18 and the face of the plate 24 intermediate the heads 30 is inclined as at 31 so as to engage the opposite inclined portion 23 of the plate 18.

In arranging the parts the main plate 6 is first positioned upon the ties 2, spikes being driven into the recessed or cut away portions 8 and 13 so as to firmly secure this member upon the ties. The intermediate plate 18 is positioned between the members 11 and 12. The rails are positioned upon the main plate 6 and are brought into contact with the heads 9 and 14. The intermediate plate is now slid into contact with the opposite sides of the rails, their heads engaging the webs and base flanges thereof, as heretofore described. The locking plate 24 is positioned upon the plates, its beveled edge 31 engaging the inclined wall 23 of the intermediate plate 1. The plate is then swung downwardly and

the orifice 28 brought into alinement with the opening 17. The bolt 29 is then inserted and the rails securely locked upon the ties 2.

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

In a device of the character described, the combination with a pair of railway rails, of a main plate having a projecting head adapted to engage the web and outer flange of the rail, the plate being provided with a bifurcated extension, each of the members of this extension having an upstanding head provided with an undercut face and adapted to engage the inner face of the web and base flange of the opposite rail, an intermediate plate having heads provided with inclined faces adapted to engage the opposite sides of the webs and base flanges of the rails, one of said heads being provided with an inclined shoulder, and a locking plate having heads for engaging the web and base flange of a rail, said heads being spaced apart and adapted to be positioned upon both faces of one of the heads carried by the intermediate plate, the space between the heads and the plate being provided with an inclined portion adapted to engage with the inclined extension of the intermediate plate, a head upon the opposite end of the plate and adapted to lie between the heads carried by the arms of the main plate, and means for securing the locking plate upon the main plate.

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

GUSTAVUS A. LINTOW.

Witnesses:

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