

C. C. STOCKTON.

RAIL JOINT.

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965,124.

Patented July 19, 1910.

Fig. 1.

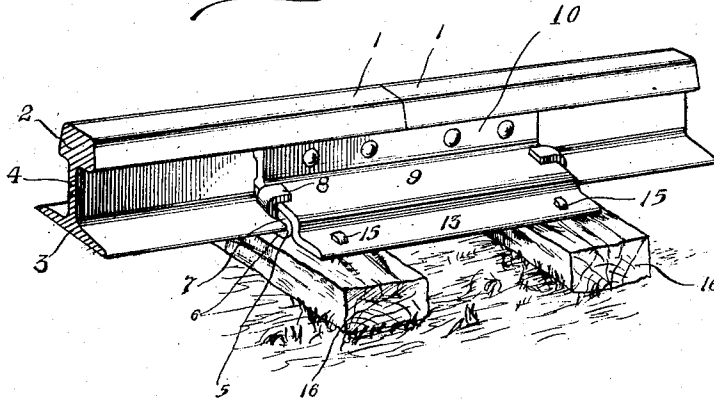


Fig. 2.

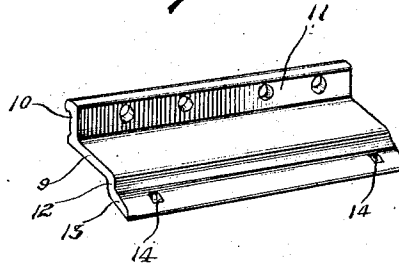


Fig. 3.

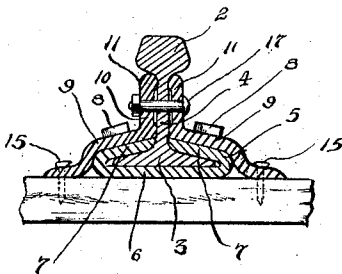
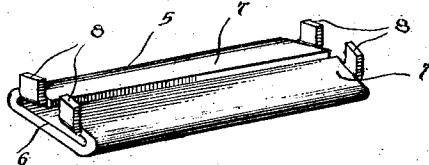


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES C. STOCKTON, OF LITTLE ROCK, ARKANSAS.

RAIL-JOINT.

965,124.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES C. STOCKTON, a citizen of the United States, residing at Little Rock, in the county of Pulaski and State of Arkansas, have invented new and useful Improvements in Rail-Joints, of which the following is a specification.

This invention relates to rail joints, and the object of the invention is the provision of novel means whereby rail sections may be securely fastened together and the rails prevented from creeping; furthermore to provide a device which is extremely simple in construction, strong, durable, comparatively inexpensive and highly efficient in use.

Another object of the invention is to provide a rail joint which may be easily removed and replaced when desired and which will secure the rails together in a manner that will effectively prevent the sagging of the rail ends when the wheels of a car pass from the end of one rail to the end of the succeeding rail, thus materially adding to the life of the rail as well as the comfort of the traveling public.

With the above, and other objects in view, which will appear as the description progresses, the invention resides in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings there has been illustrated a simple and preferred embodiment of the improvement, and in which drawings,

Figure 1 is a perspective view of the meeting ends of a pair of rails connected by my improved rail joint. Fig. 2 is a vertical transverse sectional view of the same. Fig. 3 is a perspective view of the rail chair. Fig. 4 is a similar view of one of the fish plates.

In the accompanying drawing the numeral 1 designates the meeting ends of a pair of rails. These ends 1 are constructed in the usual manner, having a head 2, base flange 3, and a connecting web 4.

The numeral 5 designates the chair for the rail ends. This chair 5 comprises a horizontally straight portion 6 having its sides bent upwardly and at an angle toward each other to provide the overlying flanges 7. The base 6 is of a width equaling that of the base flange 3 of the rail and the overlying flanges 7 are adapted to contact with the

upper faces of the said rail and to terminate at the juncture of the base flange and the web of the rail. By this arrangement it will be noted that the contiguous meeting ends of the rails are received by the chair 5 and that lateral movement of the said rails is effectively prevented.

The ends of the overlying flanges 7 of the chair member 5 are each provided with suitable ears 8, and these ears are adapted to abut against the overlying flanges 9 provided upon the fish plates 10. Each of the fish plates employed in the present instance comprises the overlying flange 9 which is adapted to be positioned directly above the overlying flange 7 of the chair 5 and integrally formed with the said flange 9 in an upstanding or vertical flange 11. The flanges 11 are adapted to underlie the head 2 of the rails and the extremities of the overlying flanges 9 are bent downwardly as at 12 and from thence outwardly, preferably at an angle as indicated by the numeral 13. The outwardly projecting portion 13 is provided with a plurality of spike openings 14, the same being adapted for the reception of suitable spikes 15. It is to be understood that the offset portions 13 of the fish plates 10 are constructed of suitable malleable material and the spikes 15 are adapted to be driven within the ties 16 at an angle so that the said inclined portions 13 will cause the fish plates to tightly abut against the chair 5. The vertical members 11 of the fish plates 10 are provided with suitable openings adapted to aline with similar openings within the web 4 of the rail, and these openings are adapted for the reception of suitable securing elements 17.

From the above description, taken in connection with the accompanying drawings, the construction and advantages of my improved rail joint will be readily apparent without requiring any further description. It will be seen that the device is simple of construction, that said construction permits of its manufacture at small cost, and that it is exceedingly well adapted for the purpose for which it is designed. It will of course be understood that the ears 8 resting against the ends of the fish plates 10 effectively prevent the longitudinal movement of the chair 5, and while I have illustrated and described the preferred embodiment of the improvement, as it now appears to me, minor

details of construction, within the scope of the following claims may be resorted to if desired.

Having thus fully described the invention, what I claim as new is:—

1. In combination with the meeting ends of a pair of rails and rail ties therefor, of a chair for the rails, said chair comprising a base portion provided with inclined flanges adapted to engage the flanges of the rails, and fish plates for the rails, said fish plates each comprising an overlying portion having a vertical extension adapted to underlie the heads of the rails, the overlying portion being further provided with an inclined offset, said inclined offset having openings adapted for the reception of spikes.
2. In combination with the meeting ends of a pair of rails, and ties therefor, of a

rail chair, said rail chair comprising a base member provided with oppositely disposed inclined members, the ends of the inclined members being provided with ears, fish plates having overlying flanges positioned between the said ears, said fish plates being further provided with vertical offsets underlying the heads of the rails, the said overlying flanges being further provided with inclined longitudinally extending offsets provided with openings adapted for the reception of spikes, substantially as described.

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

CHARLES C. STOCKTON.

Witnesses.

FRED L. PAAR,

WALLACE F. WAGNER.