T. MANEY.

CLIP FOR ADJUSTABLE TIE PLATES.

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Fig. 1.

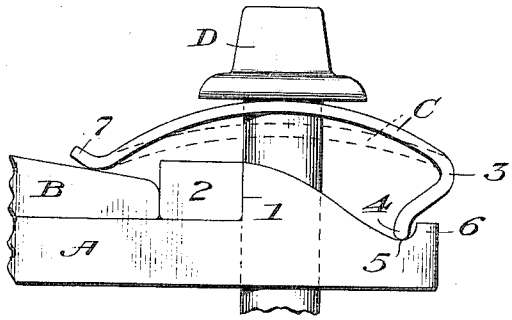
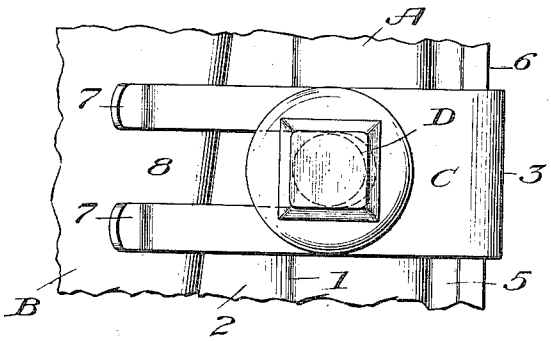


Fig. 2.



Witnesses

Lloyd W. Patch

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UNITED STATES PATENT OFFICE.

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CLIP FOR ADJUSTABLE TIE-PLATES.

1,067,125. Specification of Letters Patent. Patented July 8, 1913.

Application filed April 23, 1913. Serial No. 763,069.

To all whom it may concern:

Be it known that I, THOMAS MANEY, a citizen of the United States, residing at Louisville, in county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Clips for Adjustable Tie-Plates, of which the following is a specification.

My invention relates to an improvement in clips for adjustable tie plates, the object being to provide a clip in which the strain is equalized and more or less equally distributed throughout, and further, to provide a clip with maximum resiliency, as well as one that may be applied after the bolt or spike has been driven into place, as distinguished from devices of this character in which the bolt or spike must be inserted through the clip.

With these objects in view, my present invention consists in a convexly oval or arched clip having an open slot extending lengthwise thereof from a point a little beyond the center to the end, the clip being constructed and adapted to rest at one end on the tie plate, and at the other end upon the rail base, and to be held down at the center of the arch by the head of the bolt or spike, which forms the means of securing the rail to the tie.

In the accompanying drawings: Figure 1 is a fragmentary view in elevation; and Fig. 2 is a plan view.

A represents a metal tie plate adapted to rest on the tie and to receive the rail B thereon. The tie-plate preferably has a shoulder 1 between which and the adjacent edge of the rail base the wedge 2 is inserted.

C is the clip. This is made of spring sheet metal, and bent in the general form of an arch or convexly oval, and reversely turned at 3 so that one end, 4, which is slightly turned, is adapted to fit into the groove 5 just within the flanged edge 6 of the tie plate to afford support for the clip at that point upon the tie plate and to prevent the clip from slipping or working loose from the rail, the flange 6 thus forming a lateral support for the clip to maintain the position of the latter. The opposite end 7 of the clip is also slightly upturned, so that it will slide on the surface of the rail base as the arch of the clip is flattened by compression, due to driving or screwing the bolt D down through the tie plate into the tie, as well as due to any vibration in the rail incident to the passing of trains. The clip has an open slot 8 throughout a portion of its length to receive and straddle the bolt or spike D, and in this way the clip may be applied and placed in position after the bolt or spike has been partly driven to its place. Thus the clip may be positioned after the screw or bolt has been driven into the tie to a considerable distance, and in this way a broken or worn clip might be removed and a new one inserted in its place without turning the screw or bolt or drawing the spike.

With a clip of this character it is possible to approximately equalize the strain at either side of the point of contact of the bolt or screw upon the clip so that under compression the arched or convexly oval-shaped top of the clip will maintain its proper relationship at the point of contact with the screw head, and when thus constructed, the clip will also give increased resiliency.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A clip for adjustable tie plates made of spring sheet metal and bent into an arched form, one end of which is reversely bent to engage and rest upon the tie plate while the other end rests upon the rail to be secured.

2. A clip for tie plates, comprising a strip of spring sheet metal arched throughout the major portion of its length, one end reversely curved, and both ends slightly rounded, one to rest upon the tie plate, and the other upon the rail to be fastened.

3. A clip for tie plates, comprising a strip of spring sheet metal arched throughout the major portion of its length, one end reversely curved, and both ends slightly rounded, one to rest upon the tie plate, and the other upon the rail to be fastened, the clip being provided with an open slot which extends through the major portion of the arched top.

4. The combination with a tie plate, having a flange and a shoulder, a rail and a wedge inserted between the base flange of the rail and the shoulder of a clip, a major portion of which is arched, one end bent reversely, and both ends slightly rounded, one resting and confined laterally adjacent to the flange of the base plate, and the other upon the rail base.

5. The combination with a tie plate, hav-

ing a flange and a shoulder, a rail and a wedge inserted between the base flange of the rail and the shoulder of a clip, a major portion of which is arched, one end bent reversely and both ends slightly rounded, one resting and confined laterally adjacent to the flange of the base plate, and the other upon the rail base, said clip being provided with an open slot which extends through the greater portion of its top.

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

THOMAS MANEY.

Witnesses:
EDGAR B. HAWES,
CHAS. SPEED.