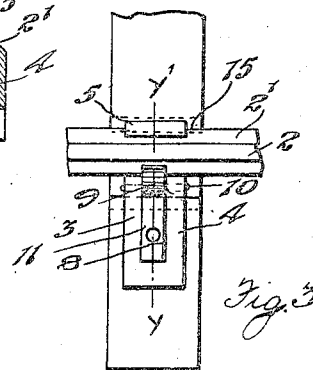
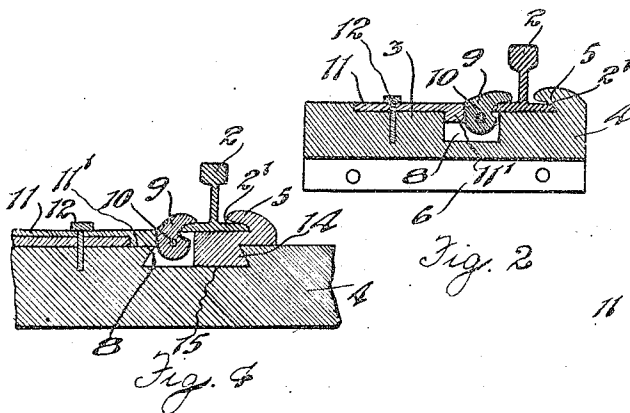
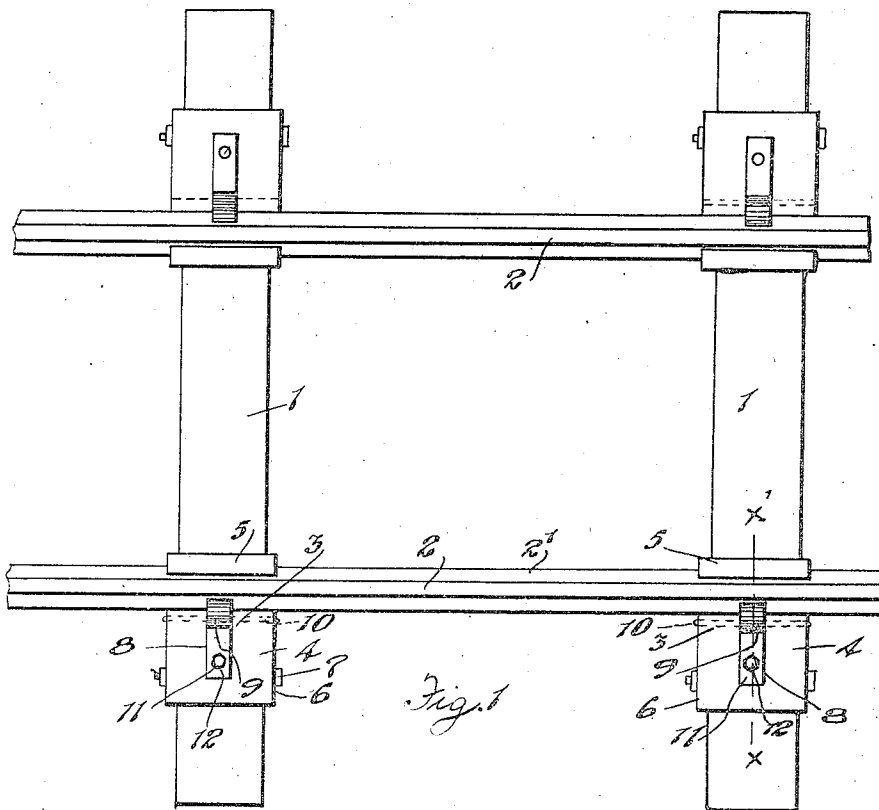


J. KWIATKOWSKI.
 DEVICE FOR SECURING RAILS TO TIES.
 APPLICATION FILED NOV. 23, 1911.

1,031,939.

Patented July 9, 1912.



Witnesses
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UNITED STATES PATENT OFFICE.

JACOB KWIATKOWSKI, OF WINNIPEG, MANITOBA, CANADA, ASSIGNOR OF ONE-HALF TO JOHN THOMAS, ONE-FOURTH TO JOSEPH HINK, AND ONE-FOURTH TO LAWRENCE HINK, ALL OF WINNIPEG, CANADA.

DEVICE FOR SECURING RAILS TO TIES.

1,031,939.

Specification of Letters Patent.

Patented July 9, 1912.

Application filed November 23, 1911. Serial No. 661,890.

To all whom it may concern:

Be it known that I, JACOB KWIATKOWSKI, of the city of Winnipeg, in the Province of Manitoba, Canada, have invented certain new and useful Improvements in Devices for Securing Rails to Ties, of which the following is the specification.

My invention relates to a device for securing track rails to ties, and the object of the invention is to provide an inexpensive, durable and efficient device of this class which can be quickly applied and will hold the rail tightly in position, the article being particularly adapted for use where cement, metallic, or such like ties are used.

With the above object in view the invention consists essentially in a base plate supplied with a hooked end, a dog pivotally secured to the base plate and opposing the hooked end thereof, releasable means for holding the dog in a set position, and means for fastening the plate to the tie or sleeper carrying the same, the parts being arranged and constructed as hereinafter more particularly described.

Figure 1 represents a plan view of the device as applied to a section of track. Fig. 2 represents a vertical sectional view centrally through the device, the section being taken in the plane denoted by the line X X', Fig. 1. Fig. 3 shows a modified form of the device. Fig. 4 is a vertical sectional view centrally through the parts shown in Fig. 3, the section being taken in the plane denoted by the line Y Y'.

In the drawing like characters of reference indicate corresponding parts in each figure.

1 represents the usual cement or such like sleepers or ties of a track, and 2 the track rails.

3 is my fastening device for securing the rails to the ties, there being a pair of these used on each tie to secure the rails in position.

The fastening device comprises a body or base plate 4 having one end hooked at 5 to receive the base 2' of the rail and provided with side flanges 6 which receive bolts 7 passing through the body of the sleeper and holding the plate permanently on the sleeper. A portion of the upper face of the base plate is hollowed out or cut away to form a substantially rectangular cavity 8 which

admits a catch piece or dog 9 pivotally mounted on a cross pin 10 having the ends thereof embedded in the side walls of the cavity. The dog is located directly opposite the hooked end of the base plate so that when it is swung over toward the end 5 it will catch the adjoining side of the base of the rail. The dog is supplied with a flattened back face which engages with the flattened enlarged end 11' of a retaining member 11 having the body portion thereof countersunk in the face of the plate and the enlarged end passing into the cavity 8 to the rear of the dog. A removable bolt 12 holds the retaining member to the base plate.

According to the above construction it will be seen that the rails can be quickly fastened to the ties, it being only necessary to bolt the base plate to the tie and remove the retaining member so as to allow the dog to swing back and admit the base of the rail beneath the hooked end 5. Upon this being accomplished the dog is swung over against the base of the rail and is held in this position by the retaining piece which is afterward put in place and fastened by the bolt 12.

In Figs. 3 and 4 of the drawing I have shown a modified means for holding the base plate to the sleeper. The flanges 6 are dispensed with and the base plate is provided with a wedge-shaped projecting piece 14 which dove-tails into a cross slot 15 supplied in the sleeper.

What I claim as my invention is:

1. The combination with a tie and a track rail, of a base plate having a hooked end engageable with one side of the rail base and provided with downwardly directed flanges, bolts securing the plate to the tie, a dog pivotally secured within a substantially rectangular cavity formed in the top face of the plate, said dog being designed to engage with the opposite side of the rail base, a retaining member countersunk within the upper face of the plate and provided with an enlarged head received within the cavity at the back of the dog, said head being flattened and engaging with the dog, holding the same in a set position against the rail base, and a removable bolt securing the retaining member to the base plate, as and for the purpose specified.

2. The combination with a tie and a track
rail, of a base plate having a hooked end
engageable with one side of the rail base and
provided with downwardly directed flanges,
5 adapted to engage the sides of the tie, bolts
securing the flanges to the tie, a dog pivot-
ally secured within a substantially rectangu-
lar cavity formed in the top face of the plate,
said dog being designed to engage with the
10 opposite side of the rail base, a retaining
member secured to the upper face of the
plate and provided with an enlarged head

received within the cavity at the back of
and engaging the dog, holding the same in
a set position against the rail base, and re- 15
movable means for securing the retaining
member to the base plate, as and for the
purpose specified.

Signed at Winnipeg, this 24th day of
October 1911.

JACOB KWIATKOWSKI.

In the presence of—

G. S. ROXBURGH,

EMORY E. NELSON.