

F. PAULUS.
SCREW CLAMP.

APPLICATION FILED OCT. 20, 1913.

1,089,953.

Patented Mar. 10, 1914.

Fig. 1.

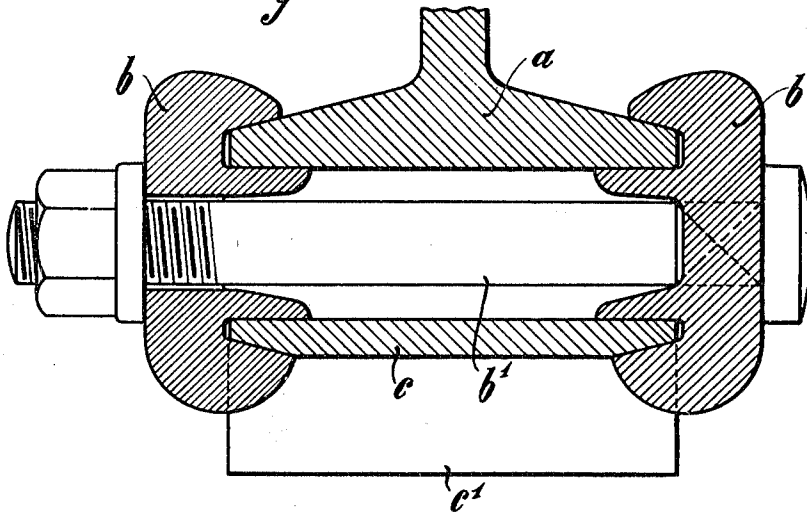
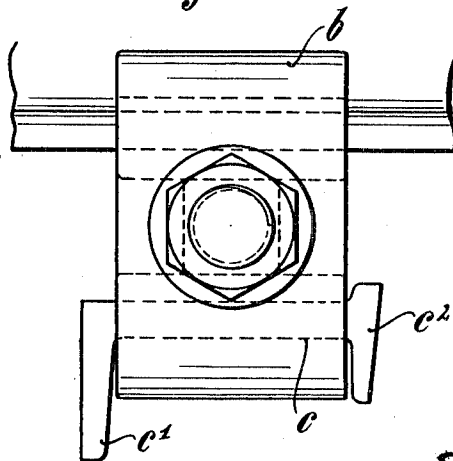


Fig. 2.



Witnesses,
J. W. Skynkoop.
H. B. Schmitt

Inventor,
F. Paulus,
By Knight Bros
Attorneys

UNITED STATES PATENT OFFICE.

FRANZ PAULUS, OF AACHEN, GERMANY.

SCREW-CLAMP.

1,089,953.

Specification of Letters Patent.

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Application filed October 20, 1913. Serial No. 796,285.

To all whom it may concern:

Be it known that I, FRANZ PAULUS, a citizen of the German Empire, residing at Aachen, Germany, have invented certain new and useful Improvements in Screw-Clamps, of which the following is a specification.

The present invention relates to a screw clamp for preventing the creeping of railway rails which clamp is distinguished by a U-shaped bracing piece, one limb of which is intended to bear against wooden sleepers and the other limb against iron sleepers, and is connected to the foot of the rail by clamping jaws with a double groove therein, embracing both the foot of the rail and the web of the bracing piece and having a bolt passing between the foot of the rail and the bracing piece to tighten up the clamping jaws.

In the drawing: Figure 1 is a longitudinal section and Fig. 2 a side view of the clamp.

a denotes the foot of the rail, *b* the clamping jaws, *b*¹ the bolt and *c* the bracing piece. This latter has a long limb *c*¹, which serves to bear against wooden sleepers and a short limb *c*² which serves to bear against iron sleepers and the inclination of which limb *c*² is suited to the inclination of the side wall of the iron sleeper.

The web of the bracing piece *c* is provided on its under surface with wedge-shaped converging edges, corresponding to the upper wedge face of the foot of the rail. The bolt *b*¹ lies exactly in the middle between the wedge faces and a very strong and reliable connection between the bracing piece *c* and the foot of the rail is therefore produced when the clamping jaws are tightened up by means of the bolt *b*¹, owing to the double wedge action.

Furthermore the above described screw clamp insures the advantage, that with the

exception of the bolt and its nut, it consists of only three parts, the sections of which may be produced by rolling, so that the work to be done thereon is confined to cutting off and drilling.

Claims:—

1. A screw clamp for rails comprising a bracing piece, a pair of clamping members and a tightening bolt for said members, said clamping members having grooves for engaging the bracing piece and the foot of the rail, said bolt constructed to draw both clamping members together so as to securely hold the rail.

2. A screw clamp for rails comprising a bracing piece, a pair of clamping members and a tightening bolt for said members, said bracing piece having a downwardly extending flange on one side for engaging with wooden sleepers, and a similar flange on its opposite side for engaging with iron sleepers.

3. A screw clamp for rails comprising a bracing piece, a pair of clamping members and a tightening bolt for said members, said bracing piece having a downwardly extending flange on one side for engaging with wooden sleepers, and a similar flange on its opposite side for engaging with iron sleepers; the body of said bracing piece being provided with beveled edges of the same taper as the foot of the rail; said clamping members being provided with grooves for engaging said beveled edges and the foot of the rail.

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

FRANZ PAULUS.

Witnesses:

HEINRICH KRECZY,
KARL KREBZ.