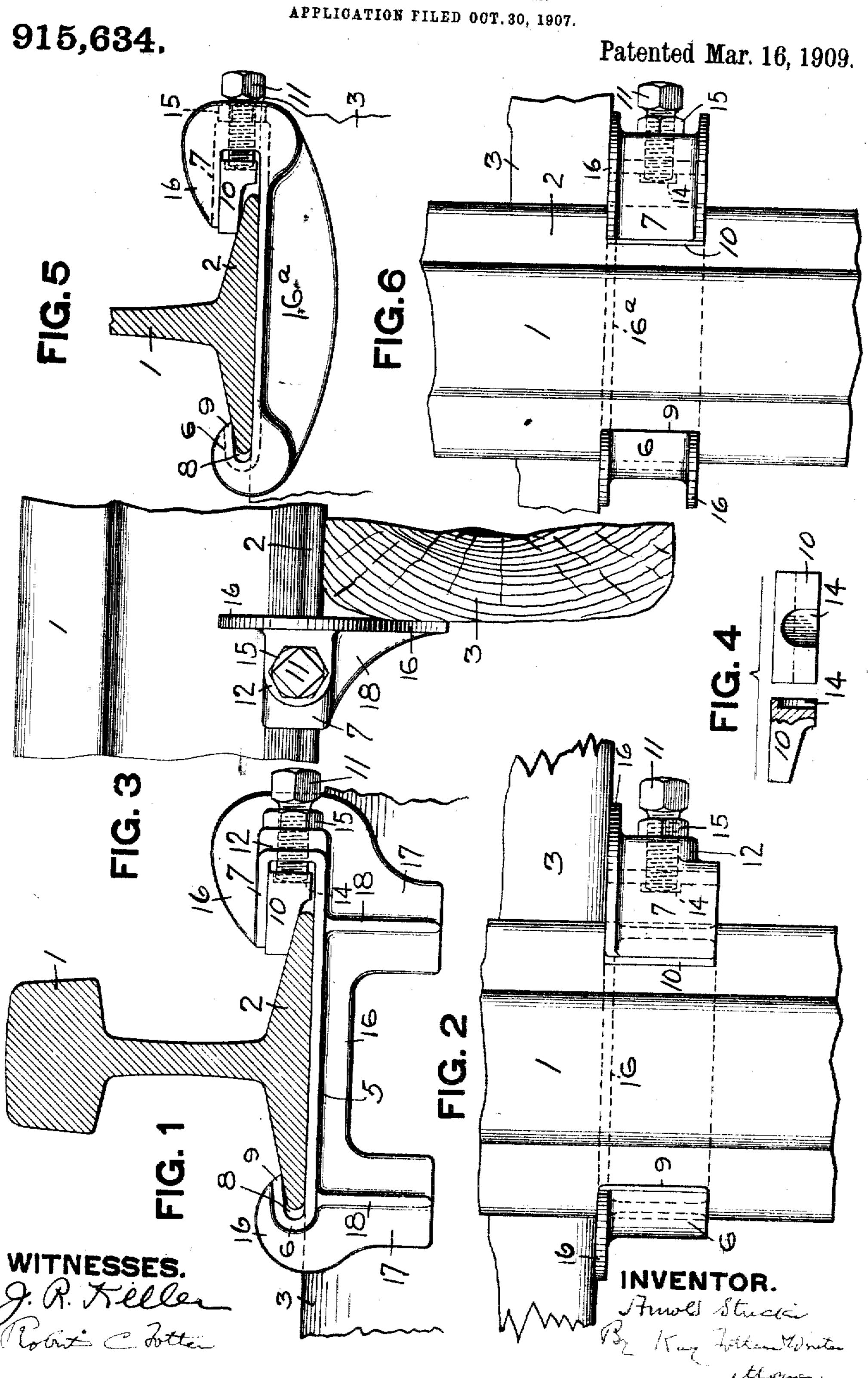
A. STUCKIANTICREEPER FOR RAILS.
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## UNITED STATES PATENT OFFICE.

ARNOLD STUCKI, OF ALLEGHENY, PENNSYLVANIA.

ANTICREEPER FOR RAILS.

No. 915,634.

Specification of Letters Patent.

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To all whom it may concern:

s vented a new and useful Improvement in the rail base and the jaw. Anticreepers for Rails; and I do hereby de-! The horizontal movement of the clamping exact description thereof.

10 vices for railway rails and its object is to pro- | the jaw 7 and bearing against the rail base,

20 ing of the rails. My device is adapted for ment of the wedge block. By merely forcing 25 applied and effective to earry out its intended base to bite into the latter. The wedge function.

claimed.

view of the device showing a portion of the bold it against accidental loosening. 25 mil in side elevation; Fig. 4 is a detail of the The throat or opening in the jaw 7 is dar to Fig. 1 showing a modification; and plication of the clamping member to a rail Fig. 6 is a plan view of a modification.

so at 1, this being of the usual standard type having the tapering base flanges 2.

3 indicates a cross tie which is shown as formed of wood but which may be metal.

The unti-creeping device comprises a suit-45 able clamping member 5 arranged to extend I to abut against the cross tie, being provided underneath the rail base and provided at its ends with jaws 6 and 7. The jaw 6 has the lags 17 projecting down below the web. mouth or opening 8 of about the same depth as the edge of the rail base and is formed on 50 a tuper slightly less than the taper of the rail base, or, in other words, the upper face of | Fig. 5 shows a modification in which the lugs 55 only the end 9 of the jaw contacts with the | metallic ties in which case the abutting memrail base but engages with it on a very sharp | ber does not need to project down as far as

! angle so that a slight force acting to move the Be it known that I. Arnoud Stucki, a jaw toward the axis of the rail secures a very resident of Allegheny, in the county of Alle- great biting effect of the jaw into the rail, gheny and State of Pennsylvania, have in- due to the small difference of angle between 60

clare the following to be a full, clear, and member in order to secure the biting effect above described is obtained by means com-This invention relates to anti-creeping de- | prising a mitable wedge block 10 fitting in 65 vide a device of this character which is cheep | together with suitable means for forcing the to namulacture, is durable and nerds no re- | wedge block 10 against said base to thereby pairs, which can be easily applied to a rail in draw the clamping member horizontally. any position, and especially one which is con- As shown, this means comprises a set screw 70 18 structed to very firinly grip the rail base. If passing through a throuded hole in the Heretofore numerous devices have been thickened portion 12 of the jaw and having designed for application to the bases of rail- its end litting into a recess 14 in the outer end road rails and arranged to abut against the of the wedge block, said recess being procross ties so as to prevent longitudinal creep- vided in order to prevent accidental displace- 75 this purpose and is an improvement upon the set screw inwardly and forcing the wedge prior devices of this character in order to in- block against the rail base, the clamping cilitate and cheaper the manufacture, give member is of course drawn horizontally, a simple and darable device, and one easily ! thereby forcing the jaw 6 against the rail 80 block to may have the same taper as the The invention comprises the construction | flange of the mil base, as shown in Fig. 1, or and arrangement hereinafter described and, it may be of less taper than said flauge, as shown in Fig. 5. If desired, one or both the 85 In the accompanying drawing Figure 1 is | jaw 6 and wedge block 10 may be provided a transverse section through a railroad rail: with corrugations or the like to increase the showing my device applied thereto; Fig. 2. Liting effect. A locking nut, 15 may and is a plun view of the same; Fig. 3 is an end; preferably is provided on the set sorew to

wedge block employed: Fig. 5 is a view signi- sufficiently deep and long to permit the apin place, this being effected before the wedge In the drawings the railroad rail is shown | block 10 is inserted. | Consequently the de- 95 vice can be applied to rails while in place and does not necessitate the removal of the rail. If desired both jaws may be like the jaw 7 and a wedge block used on each side.

The clamping member is so constructed as 100 with a vertical web 16 and with one or more Fig. 1 shows two such higs, one on either end, both braced or strengthened by ribs 18 but 105 if desired only one thereof may be used. the jaw is on an angle from the horizontal | are dispensed with but the web 16° is made somewhat less than the angle of the top face | somewhat deeper than shown in Fig. 1. The of the rail base. The consequence is that I latter construction is especially adapted for 110

with wooden ties, which usually are rounded. Also, if desired, the clamping member may have a web 16 on both edges instead of only on one edge, this modification being shown 5 in Fig. 6. Various other modifications in

the device may be made.

The device described is simple and cheap to manufacture, since all the parts can be formed by casting and require practically no 10 machine work. There are only a few pieces, which are not liable to breakage nor can they wear out so that repairs are reduced to a minimum. The device can be easily applied and to a rail in any position. It is so 15 constructed that it grips the rail base very firmly, giving it maximum holding power.

Various modifications may be made in the device, such as using in lieu of the block 10 and screw 11 a tapering wedge driven in from 20 the side between the jaw and the rail base, or making the clamping member in two pieces constructed and arranged to be drawn by a wedge or the like toward the axis of the rail. in both cases causing the jaws to be closed 25 horizontally. Other modifications will also suggest themselves to those skilled in the art.

What I claim is:

1. An anti-creeping device for rails, comprising a clamping member constructed to 30 extend underneath the rail and provided with jaws fitting over the edges of the rail base, one of said jaws having a sharpened or biting edge and constructed to contact with the top tapering surface of the rail base at a 35 constant angle from the horizontal less than the angle of said base and bite into the same, and means for causing said jaws to grip the jaws to grip the rail base.

2. An anti-creeping device for rails, com-40 prising a clamping member constructed to engage underneath the rail and provided with jaws fitting over the edges of the rail base, one of said jaws being constructed to contact with the tapered top surface thereof

at an angle from the horizontal less than the 45. angle of said base, and one of said jaws being formed of a laterally moving wedge, whereby on the movement thereof the jaws grip the rail base.

3. An anti-creeping device for rails, com- 50 prising a clamping member constructed to extend underneath the rail provided at its ends with jaws fitting over the edges of the rail base, one jaw having a less taper than the taper of the rail base, and one jaw being 55 formed of a wedge block fitting in a guideway and engaging the rail base and by its wedging action clamping the jaws upon the rail base.

4. An anti-creeping device for rails, com- 60 prising a clamping member constructed to extend underneath the rail provided at its ends with jaws fitting over the edges of the rail base, one jaw having a less taper than the taper of the rail base, and one jaw being 65 formed of a wedge block fitting in a guideway and engaging the rail base, and means for forcing said wedge block against the rail base and thereby causing the jaws to grip the same.

70 5. An anti-creeping device for rails, comprising a clamping member constructed to extend underneath the rail provided at its ends with jaws fitting over the edges of the rail base, one jaw having a less taper than the 75 taper of the rail base, and one jaw being formed of a wedge block fitting in a guideway and engaging the rail base, and a horizontally arranged screw operating on said wedge block, thereby acting o cause the 80

In testimony whereof, I the said Arnoth

Stucki have hereunto set my hand.

ARNOLD STUCKL

Witnesses: ROBERT C. TOTTEN, J. R. KELLER.