

Title (en)

SYSTEM FOR SECURING RAILS ON THE SOLE PLATES OF A RAILWAY TRACK

Title (de)

BEFESTIGUNGSSYSTEM FÜR SCHIENEN AUF UNTERSCHWELLUNG EINER GLEISANLAGE

Title (fr)

DISPOSITIF PERMETTANT DE FIXER DES RAILS SUR LES SELLES DE RAIL D'UNE VOIE FERREE

Publication

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Application

EP 93909770 A 19930513

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Abstract (en)

[origin: WO9323623A1] In a system for securing rails (2) on the sole plates of a railway track, bolts (9) are anchored on the one hand to the sleepers (4) and on the other hand they elastically stress a rail foot (2) insulated from the sleeper by intermediate layers by means of insulating wedge rail anchors (8) made of plastic and having a bore for the bolts. Wedge rail anchors may be used which extend over the rail foot and which have a passage composed of two bores (12, 13) inclined with respect to each other. In another embodiment, the material thickness of the wedge anchor rail below the nose (15) that extends over the rail foot is the same both on the side that faces the rail foot and on the side opposite to the rail foot. In yet another embodiment, the sole plates have a support (43) for the wedge rail anchor (8) which is taken out in the area of the bolt for a pre-mounting position. All embodiments of the wedge rail anchor allow the securing system to be pre-mounted on the sleeper, achieving at the same time such a large clearance between the securing elements that a rail may be set on the sleeper without taking out the securing parts. The wedge rail anchor is preferably made of a cold resistant, high modulus, thermoplastic polyurethane and has elements for supporting the wedge rail anchor against an anchoring in the rail. Finally, the wedge rail anchor, the dowel (5) and/or the intermediate layer under the rail foot may have elastic properties that match those of the other cooperating spring elements.

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