

Title (en)  
FRAME SLEEPER AND METHOD FOR THE PRODUCTION THEREOF

Title (de)  
RAHMENSCHWELLE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)  
TRAVERSE DE CHASSIS ET SON PROCEDE DE PRODUCTION

Publication  
**EP 1573133 B1 20111019 (DE)**

Application  
**EP 03788802 A 20031121**

Priority  
• DE 0303860 W 20031121  
• DE 10254973 A 20021126

Abstract (en)  
[origin: WO2004048695A1] The invention relates to a single-piece prestressed concrete frame sleeper comprising two cross-ties and two longitudinal supports which extend underneath the rails. Each of the four intersecting zones of the cross-ties (1) and longitudinal supports (2) is provided with at least one flat area which supports at least one elastic rail-bearing element (5). Said frame sleeper is sized regarding the geometry, material properties, and prestress such that at least two rail fasteners comprising two elastic spring elements (4) can be mounted onto each intersecting zone. The inventive frame sleeper can be produced by using prestress with a direct bond and clamping frames (9) for biaxial reinforcement such that the newly concreted sleeper is stripped upwards without turning the formwork shell (8) only once the concrete has reached a first degree of hardness, is stored upside down until being completely hard, and is turned into the normal position thereof only once the clamping power has been transmitted to the concrete and the sleeper has been separated from the clamping frame (9).

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