

Title (en)  
PRECAST SLAB RAILWAY TRACK STRUCTURAL SYSTEM FOR VIBRATION MITIGATION AND ASSOCIATED CONSTRUCTION METHOD

Title (de)  
FERTIGTEILPLATTENGLEISBAUSYSTEM ZUR SCHWINGUNGSVERMINDERUNG UND ZUGEHÖRIGES KONSTRUKTIONSVERFAHREN

Title (fr)  
SYSTÈME STRUCTURAL DE VOIE FERRÉE À DALLES PRÉFABRIQUÉES POUR L'ATTÉNUATION DES VIBRATIONS ET PROCÉDÉ DE CONSTRUCTION ASSOCIÉ

Publication  
**EP 3404142 A4 20190925 (EN)**

Application  
**EP 16884604 A 20160408**

Priority  
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Abstract (en)  
[origin: EP3404142A1] A precast slab railway track structural system for vibration mitigation. The system consists of a steel rail (7), a fastener (5), a precast slab (6), an elastic cushion (4), a sealing sleeve (3), a longitudinal connection device (10), and a filling layer (1). The elastic cushion (4) and the precast slab (6) can be manufactured as an integrated body within a factory. The invention further discloses an associated construction method. The precast slab railway track is laid using a track laying equipment such as a slab transporting vehicle, a hoisting vehicle, and precision control vehicle. The invention has simple construction steps, rapid construction speed, high construction accuracy, good railway track levelness and smoothness, and low requirements for physical labor. The invention further addresses issues of inconvenience when replacing a railway track slab or the elastic cushion during actual operations of a railway track.

IPC 8 full level  
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CPC (source: CN EP)  
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Citation (search report)  
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