

Title (en)  
Embedded rail system

Title (de)  
Eingebettetes Schienensystem

Title (fr)  
Système à rail imbriqué

Publication  
**EP 2354300 A1 20110810 (EN)**

Application  
**EP 10152578 A 20100203**

Priority  
EP 10152578 A 20100203

Abstract (en)  
Anti-noise and vibration-isolating device for continuously supported rails (1) in an embedded rail system for railway vehicles, wherein the rails (1) have a rail head (2) and a rail foot (3) connected to each other by a rail web (4) with two lateral sides (5), said rails (1) presenting a longitudinal web cavity (6) at least at one of the lateral sides (5) between the rail head (2) and the rail foot (3), whereby the anti-noise and vibration-isolating device comprises a longitudinal elastic boot (7) for covering the rail (1) and leaving the rail head (2) at least partially exposed, the boot (7) comprising at least one enveloping part (10) designed to extend on either side of the rail (1) so as to envelope at least the rail foot (3) and the two lateral sides (5) of the rail (1), the enveloping part (10) having an inner side (8), which at least partially fits close to the rail (1) installed in the boot (7), and having at least one longitudinal cavity (11), which corresponds to the longitudinal web cavity (6) of the rail (1) between the rail head (2) and the rail foot (3), whereby the longitudinal cavity (11) of the enveloping part (10) is located at its outer side, opposite to its inner side (8) and said boot (7) further comprises at least one elastic filling part (12) that is applied with strength into said longitudinal cavity (11) of the enveloping part (10) in order to secure the enveloping part (10) to the rail (1).

IPC 8 full level  
**E01B 19/00** (2006.01); **E01B 5/04** (2006.01); **E01B 21/02** (2006.01)

CPC (source: EP)  
**E01B 5/04** (2013.01); **E01B 19/003** (2013.01); **E01B 21/02** (2013.01)

Citation (search report)

- [XA] EP 1956143 A2 20080813 - KRAIBURG ELASTIK [DE]
- [X] WO 0023652 A1 20000427 - PHOENIX AG [DE], et al
- [XA] WO 2007145635 A1 20071221 - SEARS RYAN MICHAEL [US]
- [A] WO 9316230 A1 19930819 - ACAPELLA ENTPR LTD [GB]

Citation (third parties)  
Third party :  
US 1818755 A 19310811 - ROGERS HOMER L

Cited by  
CN111287034A; CN108517728A; EP3706115A1; WO2020182537A1

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AL BA RS

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