

Title (en)

RAIL VEHICLE COACH BODY WITH LONGITUDINAL SUPPORT FOR THE TRANSITION REGION FROM A COACH BODY SIDE WALL TO THE COACH BODY ROOF

Title (de)

WAGENKASTEN EINES SCHIENENFAHRZEUGS MIT LÄNGSTRÄGER FÜR DEN ÜBERGANGSBEREICH EINER WAGENKASTENSEITENWAND ZUM WAGENKASTENDACH

Title (fr)

CAISSE DE VÉHICULE FERROVIAIRE AVEC LONGERON POUR LA ZONE DE TRANSITION ENTRE UNE PAROI LATÉRALE ET LE TOIT

Publication

EP 2675689 B1 20160817 (DE)

Application

EP 11708981 A 20110214

Priority

EP 2011000668 W 20110214

Abstract (en)

[origin: WO2012110045A1] The invention relates to a longitudinal support (10) for the transition region from a coach body side wall to the coach body roof of a rail vehicle coach body (1), comprising a first attachment point (12) for a first roof section (4), wherein in the installed position the first attachment point is oriented vertically upwards or obliquely upwards in the direction of the coach body interior. Said longitudinal support is characterised by: a second attachment point (14) for a second roof section (3), wherein in the installed position the second attachment point is oriented in the direction of the coach body interior (B) and said attachment point is arranged under the first attachment point (12), and a third attachment point (17) for a coach body side wall (2, 8), wherein in the installed position the third attachment point is oriented downwards or obliquely downwards, and wherein the longitudinal support is formed in one piece. The invention further relates to coach bodies of a rail vehicle having such a longitudinal support, to a side wall for a rail vehicle coach body, and to a method for producing a rail vehicle coach body having at least one first roof section and at least one second roof section, wherein the first roof section projects upwards over the second roof section.

IPC 8 full level

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CPC (source: EP KR)

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Citation (opposition)

Opponent : Siemens AG

- EP 0622285 A1 19941102 - GEC ALSTHOM TRANSPORT SA [FR]
- WO 9615018 A1 19960523 - DUNDER TRADING I HAPARANDA AKT [SE], et al
- DESIRO UK SCOTRAIL: "Stress Analysis Carbody Endcar Class 380", SIEMENS, 20 July 2009 (2009-07-20), pages 1 - 5 , 71 und 81, XP055378788
- "Class 380 on test", RAILWAY GAZETTE INTERNATIONAL, December 2009 (2009-12-01), pages 17, XP055378838
- "Class 380", SCOT-RAIL.CO.UK, 10 January 2016 (2016-01-10), XP055378843, Retrieved from the Internet <URL:http://www.scot-rail.co.uk/page/Class+380>

Opponent : Siemens AG Österreich

- EP 1100841 A1 20010523 - GEN ELECTRIC [US]
- CN 2839055 Y 20061122 - BEIJING MAGNETIC SUSPENSION TE [CN]
- DE 19606792 A1 19970828 - ABB DAIMLER BENZ TRANSP [DE], et al
- J. SCHNAAS: "Neue Fertigungsprinzipien zum Vorteil des Kunden", ZEITSCHRIFT FÜR EISENBAHNWESSEN UND VERKEHRSTECHNIK. DIE EISENBAHNTECHNIK + GLASERS ANNALEN., vol. 123, no. 7/8, 1999, pages 279 - 287, XP000847996

Opponent : Stadler Rail AG

- EP 0622285 A1 19941102 - GEC ALSTHOM TRANSPORT SA [FR]
- WO 9615018 A1 19960523 - DUNDER TRADING I HAPARANDA AKT [SE], et al
- CN 2839055 Y 20061122 - BEIJING MAGNETIC SUSPENSION TE [CN]
- JP H1086820 A 19980407 - HITACHI LTD
- US 4377058 A 19830322 - HALLAM KEITH J, et al
- EP 1839989 A2 20071003 - HITACHI LTD [JP]
- "Niederflur-Fahrzeuge für den Regionalverkehr Bern -Solothurn, für die Wynental- und Suhrentalbahn sowie für die Bremgarten - Dietikon- Bahn", SCHINDLER WAGGON, July 1992 (1992-07-01), pages 1 - 16, XP055384732
- THEO STOLZ: "Taschenlexikon Triebfahrzeuge der Schweiz", 1999, ISBN: 978-3-907014-11-0, pages: 247 - 248, XP055384738

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