

Title (en)
Vehicle body structure and vehicle

Title (de)
Fahrzeugkastenstruktur und Fahrzeug

Title (fr)
Structure de châssis de véhicule et véhicule

Publication
EP 2431247 A3 20130123 (DE)

Application
EP 11179799 A 20110902

Priority
DE 102010045410 A 20100915

Abstract (en)
[origin: EP2431247A2] The vehicle has a vehicle body structure comprising side walls (100) that run through longitudinal sides of the vehicle, where each side wall comprises an upper longitudinal beam (120) and a lower longitudinal beam (130). The side walls are provided with a side wall metal sheet. The side wall metal sheet vertically extends from the lower longitudinal beam to the upper longitudinal beam to stiffen an extending long trough (115). The long trough is designed as a bulge of the side wall metal sheet to a vehicle outer side, where the long trough is in a form of channel.

IPC 8 full level
B61D 17/08 (2006.01)

CPC (source: EP)
B61D 17/08 (2013.01)

Citation (search report)

- [X] US 3319585 A 19670516 - PULCRANO FRANK C
- [XD] WO 2009114793 A1 20090917 - TRINITY IND INC [US], et al
- [X] US 2010011987 A1 20100121 - FORBES JAMES W [CA]
- [X] US 2006207472 A1 20060921 - CREIGHTON GEORGE S [US]
- [X] DE 202004015077 U1 20041125 - GREENBRIER GERMANY GMBH [DE]
- [X] EP 1935743 A1 20080625 - ALSTOM LHB GMBH [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2431247 A2 20120321; EP 2431247 A3 20130123; EP 2431247 B1 20140507; DE 102010045410 A1 20120315; ES 2471873 T3 20140627; PL 2431247 T3 20140930

DOCDB simple family (application)
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