

Title (en)
Body structure of railroad car

Title (de)
Eisenbahnwagenkasten-Struktur

Title (fr)
Structure de caisse pour voiture ferroviaire

Publication
EP 0697318 A1 19960221 (EN)

Application
EP 95116676 A 19921124

Priority

- EP 92310735 A 19921124
- JP 30893591 A 19911125
- JP 30893791 A 19911125

Abstract (en)
A light-weight body structure of a railroad car which is superior in pressure resistance, compression strength at car ends, and bending rigidity. Of a roof construction (40), a frieze panel (22), a pier panel (23), a wainscot panel (21), an underframe (30) and an end construction (50) of a body structure of a railroad car, at least the roof construction (40), the frieze panel (22), the pier panel 23 and the wainscot panel (21) are built up by outer laminate panel members (60) each comprising face plates (61, 62), a core (63), a strength member (64), a reinforcing member (65) and connecting members (66), which are all made of a light alloy and joined together by brazing. <MATH> <MATH>

IPC 1-7
B61D 17/04; **B61D 17/10**

IPC 8 full level
B61D 17/04 (2006.01); **B61D 17/10** (2006.01)

CPC (source: EP)
B61D 17/041 (2013.01); **B61D 17/043** (2013.01); **B61D 17/10** (2013.01)

Citation (search report)

- [A] EP 0405889 A2 19910102 - HITACHI LTD [JP]
- [A] WO 8600588 A1 19860130 - ALUSUISSE [CH]

Cited by
DE19757204C1; EP1044795A3; DE19749519A1; DE19749519C2; US6327981B1; US6321660B1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0544498 A1 19930602; **EP 0544498 B1 19970917**; DE 69222266 D1 19971023; DE 69222266 T2 19980430; EP 0697318 A1 19960221; TW 209194 B 19930711

DOCDB simple family (application)
EP 92310735 A 19921124; DE 69222266 T 19921124; EP 95116676 A 19921124; TW 81109309 A 19921120