

Title (en)

Body structure of railroad car.

Title (de)

Eisenbahnwagenkasten-Struktur.

Title (fr)

Structure de caisse pour voiture ferroviaire.

Publication

**EP 0544498 A1 19930602 (EN)**

Application

**EP 92310735 A 19921124**

Priority

- 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. <IMAGE> <IMAGE>

IPC 1-7

**B61D 17/04**

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)

- [AD] EP 0405889 A2 19910102 - HITACHI LTD [JP]
- [A] EP 0354436 A1 19900214 - CIMT COMP INT MAT TRANSPORT [FR]
- [A] EP 0474510 A1 19920311 - HITACHI LTD [JP]
- [A] RAILWAY ENGINEER INTERNATIONAL vol. 5, no. 3, 1980, pages 55 - 56 COLEBY 'honeycomb sandwich structures'

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