

Title (en)

Bogie with improved space use

Title (de)

Drehgestell mit verbessertem Bauraumangebot

Title (fr)

Bogie avec utilisation améliorée de l'espace disponible

Publication

**EP 1894807 B2 20131120 (DE)**

Application

**EP 06018289 A 20060901**

Priority

EP 06018289 A 20060901

Abstract (en)

[origin: EP1894807A1] The bogie has two longitudinal supports (3) with a transverse support (5), connected with the longitudinal support and with a torsion bar (15). The torsion bar runs parallel to the transverse support. One of the transverse supports has a crank (11) at each end. The torsion bar is arranged in the area of the crank, which is inside the transverse support. The bogie has two crankshaft transverse supports.

IPC 8 full level

**B61F 5/24** (2006.01)

CPC (source: EP)

**B61F 5/24** (2013.01); **B61F 5/52** (2013.01)

Citation (opposition)

Opponent :

- GB 2289877 A 19951206 - ABB RAIL VEHICLES LTD [GB]
- DE 4311521 C1 19940421 - TALBOT WAGGONFAB [DE]
- EP 0857635 A2 19980812 - SIEMENS SGP VERKEHRSTECH GMBH [AT]
- EP 0358143 A1 19900314 - ALSTHOM CREUSOT RAIL [FR]
- H. HONDIUS: "ÖPNV-Niederflur-Fahrzeuge im Kommen (3), Teil I Stadtverkehr Special", 1993, EK-VERLAG GMBH, FREIBURG, pages: 64 - 76

Cited by

CN102490755A; CN102753418A; CN105383513A; CN105151069A; CN106809229A; JPWO2017029721A1; US11414106B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1894807 A1 20080305; EP 1894807 B1 20091104; EP 1894807 B2 20131120**; AT E447515 T1 20091115; DE 502006005295 D1 20091217; ES 2335793 T3 20100405; ES 2335793 T5 20140227

DOCDB simple family (application)

**EP 06018289 A 20060901**; AT 06018289 T 20060901; DE 502006005295 T 20060901; ES 06018289 T 20060901