

Title (en)  
Bogie of railway vehicle

Title (de)  
Drehgestell für Schienenfahrzeug

Title (fr)  
Bogie de véhicule ferroviaire

Publication  
**EP 2202127 A3 20110330 (EN)**

Application  
**EP 09251097 A 20090415**

Priority  
JP 2008332806 A 20081226

Abstract (en)  
[origin: EP2202127A2] The invention provides a bogie of a railway vehicle capable of reducing the stress applied to the welding portion between brake gear attachments and transoms, promoting weight reduction and cutting down the number of production steps. The bogie of a railway vehicle comprises a bogie frame (5a) composed of side beams (10) which are spaced apart and arranged in parallel and transoms (20) passing through the longitudinal centre portions of the side beams (10), two wheel sets each having wheels (240) attached to both ends of an axle (230), brake gears (56) and air springs (210). Air spring bearing racks (50) are arranged so that both ends of transoms (20) pass through the longitudinal centre portion of the air spring bearing racks, so that the stress caused by the moment applied on the brake gear attachments (54a) during braking can be reduced. Furthermore, since each air spring bearing rack and brake gear attachments (54a) are formed in an integral manner, the number of steps required for manufacturing the components and the number of steps required for attaching the components to the bogie frame can be cut down.

IPC 8 full level  
**B61F 5/10** (2006.01); **B61F 5/52** (2006.01); **B61H 9/00** (2006.01)

CPC (source: EP)  
**B61F 5/10** (2013.01); **B61F 5/52** (2013.01); **B61H 5/00** (2013.01)

Citation (search report)

- [A] GB 191422259 A 19150708 - ADAMS WALTER SCOTT [US]
- [A] DE 494120 C 19300319 - BUCKEYE STEEL CASTINGS CO
- [A] EP 0564423 A1 19931006 - FIAT FERROVIARIA SPA [IT]
- [A] US 2250988 A 19410729 - EKSERGIAN CAROLUS L

Cited by  
CN112644548A; CN108032864A; CN102923152A; CN105880893A; CN103935379A; EP4008601A4; CN103693064A; CN105313913A; CN105965186A; CN108045397A; CN105965188A; CN108032865A; EP3992053A1; CN103863347A; CN103879426A; CN105965187A; CN110337398A; CN112622971A; CN105313914A; CN114084184A; EP4008599A4; WO2022032809A1

Designated contracting state (EPC)  
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 SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2202127 A2 20100630; EP 2202127 A3 20110330; EP 2202127 B1 20150722;** JP 2010149808 A 20100708; JP 4685921 B2 20110518

DOCDB simple family (application)  
**EP 09251097 A 20090415;** JP 2008332806 A 20081226