

Title (en)

Bogies for railway vehicles with variable gap between wheels

Title (de)

Drehgestelle für Schienenfahrzeuge mit veränderlichem Räderabstand

Title (fr)

Bogies pour véhicules ferroviaires avec un écartement variable entre les roues

Publication

EP 0591088 B1 19971022 (EN)

Application

EP 93500060 A 19930507

Priority

ES 9201934 A 19920930

Abstract (en)

[origin: EP0591088A1] Bogies for railway vehicles with variable gap between wheels, consisting of a center frame (1), to which four oscillating arms are united by means of relative joints (2), at each of which ends bearing boxes for each rolling assemblies (3) are housed, which can be transversely moved, the wheel being located in each of two positions corresponding to two gauges, relying on the fact that the opposed portion of each arm rests on a helical spring (4), the lower end of which is resting on the center frame bottom, and at the end of this portion there is mounted a vertical shock absorber (5). <IMAGE>

IPC 1-7

B61F 3/16; **B61F 7/00**

IPC 8 full level

B61F 3/16 (2006.01); **B61F 5/52** (2006.01); **B61F 7/00** (2006.01); **B61H 9/00** (2006.01)

CPC (source: EP)

B61F 3/16 (2013.01); **B61F 7/00** (2013.01); **B61H 9/00** (2013.01)

Cited by

ES2607380R1; RU2689083C2; EP0648659A1; TR28161A; RU2493991C2; ES2130039A2; EP0802101A3; CN115230768A; US5816170A; ES2133224A1; EP0825085A3; CN107628055A; US6405656B1; EP3650305A1; FR3088043A1; WO9637397A1; EP1247714A1; FR2822780A1

Designated contracting state (EPC)

AT BE CH DE DK FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0591088 A1 19940406; **EP 0591088 B1 19971022**; AT E159473 T1 19971115; AU 4750393 A 19940414; AU 671144 B2 19960815; CN 1052693 C 20000524; CN 1091704 A 19940907; DE 69314746 D1 19971127; DE 69314746 T2 19980520; DK 0591088 T3 19980518; ES 2078137 A1 19951201; ES 2078137 B1 19960816; FI 934295 A0 19930930; FI 934295 A 19940331; GR 3025932 T3 19980430; HU 214409 B 19980330; HU 9302758 D0 19940128; HU T71016 A 19951128; JP 2502911 B2 19960529; JP H06115431 A 19940426; LT 3157 B 19950131; LT IP1252 A 19940515; PL 172477 B1 19970930; RO 114581 B1 19990630; RU 2123952 C1 19981227; SK 105093 A3 19940511; SK 281265 B6 20010118; UA 27042 C2 20000228

DOCDB simple family (application)

EP 93500060 A 19930507; AT 93500060 T 19930507; AU 4750393 A 19930921; CN 93114188 A 19930929; DE 69314746 T 19930507; DK 93500060 T 19930507; ES 9201934 A 19920930; FI 934295 A 19930930; GR 980400102 T 19980116; HU 9302758 A 19930929; JP 9618993 A 19930422; LT IP1252 A 19930929; PL 30055093 A 19930930; RO 9301297 A 19930930; RU 93053995 A 19930929; SK 105093 A 19930930; UA 93004621 A 19930930