

Title (en)
RAILWAY VEHICLE

Title (de)
SCHIENENFAHRZEUG

Title (fr)
VÉHICULE FERROVIAIRE

Publication
EP 3421318 A1 20190102 (EN)

Application
EP 18180975 A 20130912

Priority
• EP 18180975 A 20130912
• EP 13893466 A 20130912
• JP 2013074702 W 20130912

Abstract (en)
[P roblem] A railway vehicle whose upper floor can be effectively prevented from floating upward when a large impact acts on the railway vehicle, without obstructing elastic support of the upper floor, is to be provided. [Solution] A railway vehicle in which an upper floor forming a floor is laid down on a top surface side of an underframe includes: a protruding part provided along a longitudinal direction of the underframe, on the top surface of the underframe; an elastic member arranged along the longitudinal direction of the underframe and having a bottom surface fixed to the top surface of the underframe or a top surface of a horizontal piece of the protruding part; and a support member fixed to a top surface of the elastic member and fixed to a bottom surface of the upper floor; wherein the protruding part and the support member are formed in such a way that the protruding part locks movement of the support member into a direction away from the top surface of the underframe.

IPC 8 full level
B61D 17/10 (2006.01)

CPC (source: EP)
B61C 17/00 (2013.01); **B61D 17/10** (2013.01)

Citation (applicant)
• JP H09150738 A 19970610 - NIPPON SHARYO SEIZO KK
• JP 2001048017 A 20010220 - TOKAI RYOKAKU TETSUDO KK, et al
• EP 1193165 A2 20020403 - GETZNER WERKSTOFFE GMBH [AT]

Citation (search report)
• [A] EP 1508489 A2 20050223 - SIEMENS AG [DE]
• [A] EP 1193165 A2 20020403 - GETZNER WERKSTOFFE GMBH [AT]
• [A] DD 253229 A1 19880113 - GOERLITZ WAGGONBAU VEB [DD]
• [E] DE 102013200628 A1 20140717 - SIEMENS AG [DE]

Cited by
TWI793964B; TWI785950B

Designated contracting state (EPC)
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EP 3045371 A1 20160720; EP 3045371 A4 20170426; EP 3045371 B1 20180815; EP 3421318 A1 20190102; EP 3421318 B1 20190724; JP 6082470 B2 20170215; JP WO2015037100 A1 20170302; WO 2015037100 A1 20150319

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EP 13893466 A 20130912; EP 18180975 A 20130912; JP 2013074702 W 20130912; JP 2015536366 A 20130912