

Title (en)  
BOGIE FOR RAILWAY VEHICLE

Title (de)  
DREHGESTELL FÜR SCHIENENFAHRZEUG

Title (fr)  
BOGIE POUR VÉHICULE FERROVIAIRE

Publication  
**EP 4371847 A1 20240522 (EN)**

Application  
**EP 23203965 A 20231017**

Priority  
JP 2022183812 A 20221117

Abstract (en)  
In a bogie (1) for a railway vehicle, an air spring (6, 30) includes upper and lower opposed surfaces (11A, 13A, 31A, 33A) which are apart from each other in an up-down direction and face each other, a stopper rubber (21, 41) fixed to one opposed surface (13A, 33A) of the upper and lower opposed surfaces, and a stopper rubber receiver (22, 42) fixed to the other opposed surface (11A, 31A). A relative position between the upper and lower opposed surfaces varies from an initial state in response to a displacement of a vehicle body (7) in a front-back direction and a left-right direction allowed by the air spring. Separation distances to the one opposed surface in the up-down direction at left and right end portions (22L, 22R, 42L, 42R) of the stopper rubber receiver are shorter than that at a central portion (22M, 42M), and separation distances to the one opposed surface in the up-down direction at front and back end portions (22F, 22B, 42F, 42B) of the stopper rubber receiver are longer than that at the central portion.

IPC 8 full level  
**B61F 5/10** (2006.01); **B61F 5/22** (2006.01)

CPC (source: EP)  
**B61F 5/10** (2013.01); **B61F 5/22** (2013.01)

Citation (applicant)  
JP H0524536 A 19930202 - TOKAI RUBBER IND LTD, et al

Citation (search report)  
• [A] US 2018312174 A1 20181101 - SAWA TAKAYUKI [JP], et al  
• [AD] JP H0524536 A 19930202 - TOKAI RUBBER IND LTD, et al  
• [A] JP 2002264806 A 20020918 - FUJI HEAVY IND LTD  
• [A] JP H0828618 A 19960202 - SUMITOMO ELECTRIC INDUSTRIES

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

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