

Title (en)  
Transverse tilting mechanism for railway vehicle

Title (de)  
Querneigeeinrichtung für Schienenfahrzeuge

Title (fr)  
Dispositif d'inclinaison transversale pour véhicule ferroviaire

Publication  
**EP 1190925 A1 20020327 (EN)**

Application  
**EP 01303228 A 20010405**

Priority  
JP 2000297056 A 20000926

Abstract (en)  
A car body (8) is supported on a bogie frame (4) through an air spring (5). Along the width direction of the car body (8), a torsion bar (11) is provided on the bogie frame (4). At both ends of the torsion bar (11), links (15) for inclining the car body (8), through levers (13) are provided. Accordingly, a rolling displacement of the car body is restricted and a vertical displacement is not restricted. Due to the inclined geometry of the levers (13) towards the center longitudinal plane of the car body (8), the car body is tilted in the proper direction when an excessive centrifugal acceleration occurs. An inclination device having a light weight structure, a good riding comfort, and a high failsafe characteristic can be obtained. <IMAGE>

IPC 1-7  
**B61F 5/22**; **B61F 5/24**

IPC 8 full level  
**B61F 5/10** (2006.01); **B61F 5/22** (2006.01); **B61F 5/24** (2006.01)

CPC (source: EP KR US)  
**B61F 5/22** (2013.01 - EP US); **B61F 5/24** (2013.01 - KR); **B61F 5/245** (2013.01 - EP US)

Citation (search report)  
• [XY] DE 4410970 C1 19950720 - TALBOT WAGGONFAB [DE]  
• [X] DE 4343998 A1 19950720 - NUSSER JOSEF [DE]  
• [X] DE 19500212 A1 19960829 - NUSSER JOSEF [DE]  
• [Y] US 3789769 A 19740205 - STROHMER A, et al  
• [A] DE 4311521 C1 19940421 - TALBOT WAGGONFAB [DE]

Cited by  
EP2842826A1; WO2011032945A1; WO2011032944A1; EP2842827A1; WO2010112306A1; DE102012105310A1; EP2226232A1; AT11079U3; DE102015205531B3; AT513549A1; AT513549B1; EP2226233A1; US7721499B2; US9637145B2; CN102448790A; AT11080U3; WO2004091992A1; WO2010113045A3; DE202009015735U1; DE102009041109A1; US8910579B2; WO2010113045A2; DE102009041110A1; DE202009015030U1; DE202009015736U1; DE102009014866A1; DE102009014866A9; US8356557B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1190925 A1 20020327**; AU 3341601 A 20020328; CN 1345673 A 20020424; JP 2002104183 A 20020410; KR 20020024767 A 20020401; US 2002035947 A1 20020328

DOCDB simple family (application)  
**EP 01303228 A 20010405**; AU 3341601 A 20010403; CN 01116606 A 20010413; JP 2000297056 A 20000926; KR 20010019827 A 20010413; US 82399801 A 20010403