

Title (en)  
FRICTION DAMPER SUPPORTED BY A JOINT

Title (de)  
REIBUNGSDÄMPFER, DER DURCH EIN GELENK UNTERSTÜTZT WIRD

Title (fr)  
AMORTISSEUR À FRICTION SUPPORTÉ PAR UN JOINT

Publication  
**EP 3045373 A1 20160720 (EN)**

Application  
**EP 16151893 A 20160119**

Priority  
FI 20155038 A 20150119

Abstract (en)  
Friction damper supported by a joint in the suspension of a wheelset of a railway car, comprising an axle (1), together with wheels (12), bearings (13), and axle boxes (2), there are helical springs (3) fitted to the ends of the axle (1) at least on both sides of the axle box (2) of the axle (1), in order to carry the railway car or to attach the bogie of the railway car to the frame of the bogie (4). At the side of the upper end of each helical spring (3) there is a slider (6) arranged to be moveably attached to the axle box (2) of the axle (1), in which there is at least one curved guide surface (7), which guide surface (7) has at least one radius of curvature parallel to the axle of the wheel pair around the axle. At the upper end of the helical springs (3), a friction damper is fitted, which comprises a counter surface (8) supported on the curved guide surface (7) of the axle box's (2) slider (6), the shape of which corresponds to the shape of the curved guide surface (7), a spring plate (9), which contains a head cap (17) for supporting the upper end of the helical spring (3), and at least one planar slanting friction surface (10) to be supported on a planar slanting counter surface (11) in the frame (4) of the bogie/car, which is correspondingly arranged to correspond to the slanting friction surface (10) of the friction damper.

IPC 8 full level  
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CPC (source: EP)  
**B61F 5/301** (2013.01); **B61F 5/32** (2013.01)

Citation (applicant)  
US 2009031918 A1 20090205 - HEWITT PAUL [PT], et al

Citation (search report)  
• [AD] US 2009031918 A1 20090205 - HEWITT PAUL [PT], et al  
• [A] WO 0185521 A1 20011115 - DAIMLER CHRYSLER AG [DE], et al  
• [A] CN 102476642 A 20120530 - QIQIHAR RAILWAY ROLLING STOCK  
• [A] GB 1401829 A 19750730 - LINKE HOFMANN BUSCH  
• [A] GB 2021503 A 19791205 - GLOUCESTER RAILWAY CARRIAGE  
• [A] WO 2008152383 A1 20081218 - SCT EUROP LTD [GB], et al  
• [A] EP 1186504 A2 20020313 - NACO INC [US]

Cited by  
CN111497884A

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Designated extension state (EPC)  
BA ME

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