

Title (en)
WHEEL AXLE GUIDING ASSEMBLY WITH LONGITUDINAL HYDRO-MECHANICAL CONVERTERS AND ASSOCIATED RUNNING GEAR

Title (de)
RADACHSENFÜHRUNGSANORDNUNG MIT HYDROMECHANISCHEN LÄNGSWANDLERN UND ZUGEHÖRIGES LAUFWERK

Title (fr)
ENSEMBLE GUIDE D'ESSIEU DE ROUE AVEC DES CONVERTISSEURS HYDROMÉCANIQUES LONGITUDINAUX ET TRAIN DE ROULEMENT ASSOCIÉ

Publication
EP 3205549 A1 20170816 (EN)

Application
EP 16155620 A 20160215

Priority
EP 16155620 A 20160215

Abstract (en)
The invention relates to a wheel axle guiding assembly (10) comprising an axle box carrier (20), an axle box (14) located longitudinally between a front part (16) and a rear part (18) of the axle box carrier (20); a front longitudinal hydro-mechanical converter (32) between a front part (16) of an axle box carrier (20) and a rear longitudinal hydro-mechanical converter (34) between the axle box (14) and a rear part (18) of the axle box carrier (20) to allow a fore-and-aft movement of the axle box (14) relative to the axle box carrier (20) parallel to a longitudinal direction (200). Each of the front and rear longitudinal hydro-mechanical converters (32, 34) includes a housing (36), a plunger (38) and an elastomeric body (40) fixed to the housing (36) and to the plunger (38) so as to allow a fore-and-aft relative movement parallel to the longitudinal direction (200) between the plunger (38) and the housing (36), a single variable volume hydraulic chamber (42) being formed between the housing (36), the plunger (38) and the elastomeric body (40). A hydraulic port (54) provides a connection of the variable volume hydraulic chamber (40) with an external hydraulic circuit (54, 56, 64, 66, 68, 70, 72, 74).

IPC 8 full level
B61F 5/38 (2006.01); **B61F 5/30** (2006.01)

CPC (source: EP)
B61F 5/305 (2013.01); **B61F 5/307** (2013.01); **B61F 5/386** (2013.01)

Citation (applicant)

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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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3205549 A1 20170816

DOCDB simple family (application)
EP 16155620 A 20160215