

Title (en)
MULTI-SPEED TRANSMISSION FOR RAIL VEHICLES

Title (de)
MEHRGANGGETRIEBE FÜR SCHIENENFAHRZEUGE

Title (fr)
TRANSMISSION MULTI-VITESSE POUR VÉHICULES FERROVIAIRES

Publication
EP 3164622 A1 20170510 (DE)

Application
EP 15727375 A 20150602

Priority
• DE 102014213012 A 20140704
• EP 2015062246 W 20150602

Abstract (en)
[origin: WO2016000897A1] The invention relates to a multi-speed transmission (9) for rail vehicles, said multi-speed transmission (9) comprising at least one transmission input (AN), at least one transmission output (AB), at least one planetary gear set (PR1, PR2), at least one shifting element (SE1, SE2) and a housing (G), wherein a planetary gear set (PR1, PR2) comprises a sun gear (S1, S2), at least one planetary carrier (PT1, PT2) having planetary gears, and a ring gear (H1, H2), and wherein a rotary movement can be initiated in the multi-speed transmission (9) by a drive element (8), characterised in that, by actuating the at least one shifting element (SE1, SE2), at least two different transmission ratios between the transmission input (AN) and the transmission output (AB) can be represented.

IPC 8 full level
F16H 3/66 (2006.01)

CPC (source: CN EP US)
B61C 9/00 (2013.01 - US); **F16H 3/54** (2013.01 - EP US); **F16H 3/66** (2013.01 - CN EP US); **B60Y 2400/421** (2013.01 - CN EP US); **F16H 2037/047** (2013.01 - EP US); **F16H 2200/0034** (2013.01 - EP US); **F16H 2200/0039** (2013.01 - US); **F16H 2200/2005** (2013.01 - CN US); **F16H 2200/2007** (2013.01 - CN EP US); **F16H 2200/2033** (2013.01 - US); **F16H 2200/2035** (2013.01 - EP US); **F16H 2200/2038** (2013.01 - EP US); **F16H 2200/2041** (2013.01 - EP US); **F16H 2200/2064** (2013.01 - EP US); **F16H 2200/2094** (2013.01 - CN US); **F16H 2200/2097** (2013.01 - CN EP US)

Citation (search report)
See references of WO 2016000897A1

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)
DE 102014213012 A1 20160107; CN 106471281 A 20170301; EP 3164622 A1 20170510; US 2017204942 A1 20170720;
WO 2016000897 A1 20160107

DOCDB simple family (application)
DE 102014213012 A 20140704; CN 201580035991 A 20150602; EP 15727375 A 20150602; EP 2015062246 W 20150602;
US 201515323464 A 20150602