

Title (en)

METHOD FOR A BRAKING OPERATION OF A WHEEL AXLE OF A RAIL VEHICLE AND BRAKING SYSTEM FOR A RAIL VEHICLE

Title (de)

VERFAHREN FÜR EINEN BREMSVORGANG EINER RADACHSE EINES SCHIENENFAHRZEUGS UND BREMSYSTEM FÜR EIN SCHIENENFAHRZEUG

Title (fr)

PROCÉDÉ POUR ACTION DE FREINAGE D'UN ESSIEU DE FREIN D'UN VÉHICULE FERROVIAIRE ET SYSTÈME DE FREINAGE POUR VÉHICULE FERROVIAIRE

Publication

EP 2922724 A1 20150930 (EN)

Application

EP 12794257 A 20121121

Priority

EP 2012073239 W 20121121

Abstract (en)

[origin: WO2014079490A1] A wheel axle (18) of a rail vehicle is provided with an electro-dynamic brake system (33) and with a not fully rated mechanical braking system (22). A braking method for braking the wheel comprises at least a service braking mode carried out solely with the electro-dynamic braking system (33), a parking brake mode carried out solely by the mechanical braking system (22), and an emergency braking mode comprising a first level emergency braking mode carried out solely by the electro-dynamic braking system (33) and a second level emergency braking mode activated when the first level emergency braking mode has a malfunction and carried out solely by the electro-dynamic braking system (33) as long as a low efficiency condition of the electro-dynamic braking system is not met and at least partly by the mechanical braking system (22) when the low efficiency condition of the electro-dynamic braking system (33) is met.

IPC 8 full level

B60L 7/24 (2006.01); **B60L 7/26** (2006.01)

CPC (source: EP)

B60L 7/18 (2013.01); **B60L 7/26** (2013.01); **B60T 8/1893** (2013.01); **B60T 13/665** (2013.01); **B60T 17/228** (2013.01); **B60L 2200/26** (2013.01)

Citation (search report)

See references of WO 2014079490A1

Citation (examination)

- US 6062657 A 20000516 - DIMASI FRED J [US]
- EP 2165902 A1 20100324 - BOMBARDIER TRANSP GMBH [DE]
- WO 2004054840 A1 20040701 - BOMBARDIER TRANSP GMBH [DE], et al
- US 2009224706 A1 20090910 - JOBARD THIERRY [FR]
- GB 2460528 A 20091209 - HITACHI LTD [JP]

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)

WO 2014079490 A1 20140530; CA 2893607 A1 20140530; CN 104936815 A 20150923; CN 104936815 B 20170811; EP 2922724 A1 20150930

DOCDB simple family (application)

EP 2012073239 W 20121121; CA 2893607 A 20121121; CN 201280078149 A 20121121; EP 12794257 A 20121121