Title (en)

REGENERATIVE BRAKE METHOD AND SYSTEM

Title (de)

REGENERATIVES BREMSVERFAHREN UND -SYSTEM

Title (fr)

PROCÉDÉ ET SYSTÈME DE FREINAGE À RÉCUPÉRATION D'ÉNERGIE

Publication

EP 2981443 A1 20160210 (EN)

Application

EP 14726802 A 20140326

Priority

- US 201361807459 P 20130402
- US 2014031798 W 20140326

Abstract (en)

[origin: WO2014165360A1] A vehicle 100 (Figure 1) includes a braking system 100a (Figure 2) that includes a foundation braking system 111 and a hydraulic braking system 112. According to method 100b (Figures 3 and 4), system controller 117 (Figure 2) at successive steps 120-127 determines when hydraulic regenerative braking system 112 cannot provide full commanded braking torque and acts through proportional treadle valve 116a to provide a proportional transition between an isolated hydraulic braking mode and an isolated foundation braking mode. According to methods 200b (Figures 7-8) and 200b (Figures 9-10), proportional braking is approximated. According to method 300 (Figure 11), hydraulic braking is reduced at the initiation of a braking event based upon the estimated kinetic energy of the vehicle and available capacity for storing that energy.

IPC 8 full level

B60T 1/10 (2006.01)

CPC (source: EP)

B60K 6/12 (2013.01); **B60T 1/10** (2013.01); **B60W 10/04** (2013.01); **B60W 10/184** (2013.01); **B60W 30/18127** (2013.01); **F16D 61/00** (2013.01); B60T 2270/604 (2013.01); B60Y 2300/89 (2013.01); Y02T 10/62 (2013.01)

Citation (search report)

See references of WO 2014165360A1

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 2014165360 A1 20141009; EP 2981443 A1 20160210

DOCDB simple family (application)

US 2014031798 W 20140326; EP 14726802 A 20140326