

Title (en)

METHOD FOR OPERATING A COMMON RAIL SYSTEM OF A MOTOR VEHICLE HAVING A REDUNDANT RAIL PRESSURE SENSOR

Title (de)

VERFAHREN ZUM BETREIBEN EINES COMMON-RAIL-SYSTEMS EINES KRAFTFAHRZEUGS MIT EINEM REDUNDANTEN
RAILDRUCKSENSOR

Title (fr)

PROCÉDÉ PERMETTANT DE FAIRE FONCTIONNER UN SYSTÈME À RAMPE COMMUNE D'UN VÉHICULE AUTOMOBILE PRÉSENTANT UN
SYSTÈME REDONDANT DE DÉTECTION DE LA PRESSION DE RAMPE

Publication

EP 2984324 A1 20160217 (DE)

Application

EP 14709649 A 20140312

Priority

- DE 102013206428 A 20130411
- EP 2014054782 W 20140312

Abstract (en)

[origin: WO2014166690A1] The invention proposes a method for operating a common rail system (100) of a motor vehicle, which common rail system has a rail pressure sensor arrangement (140) with at least two signal paths (141a, 141b) and which common rail system can be operated with a maximum admissible rail pressure (P_{max}) and with a minimum admissible rail pressure (P_{min}). In each case on the basis of a pressure measurement in a rail (150) of the common rail system (100), sensor signals (144a, 144b) are read out via the at least two signal paths (141a, 141b), and a signal deviation value (A) is determined which characterizes a deviation between pressure values (a, b) each determined on the basis of the sensor signals (144a, 144b). The method comprises the steps of reducing the maximum admissible rail pressure (P_{max}) by a corrective value to a maximum admissible emergency rail pressure (P_{max,E}), and/or increasing the minimum admissible rail pressure (P_{min}) by a corrective value to a minimum admissible emergency rail pressure (P_{min,E}), if the signal deviation value (A) exceeds a predefined value.

IPC 8 full level

F02D 41/22 (2006.01); **F02D 41/38** (2006.01); **G01D 3/08** (2006.01); **G01L 15/00** (2006.01); **G01L 27/00** (2006.01); **G05B 9/03** (2006.01)

CPC (source: EP US)

F02D 41/22 (2013.01 - US); **F02D 41/222** (2013.01 - EP US); **F02D 41/26** (2013.01 - US); **F02D 41/3836** (2013.01 - EP US);
G01L 15/00 (2013.01 - EP US); **G01M 15/08** (2013.01 - EP US); **G05B 9/03** (2013.01 - EP US); **F02D 2041/223** (2013.01 - EP US);
F02D 2041/227 (2013.01 - EP US); **F02D 2041/3881** (2013.01 - US); **F02D 2200/0602** (2013.01 - EP US); **F02D 2400/08** (2013.01 - EP US);
G01D 3/08 (2013.01 - EP US)

Citation (search report)

See references of WO 2014166690A1

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 2014166690 A1 20141016; CN 105074183 A 20151118; CN 105074183 B 20180821; DE 102013206428 A1 20141030;
EP 2984324 A1 20160217; JP 2016521326 A 20160721; JP 6072350 B2 20170201; US 2016053706 A1 20160225; US 9863358 B2 20180109

DOCDB simple family (application)

EP 2014054782 W 20140312; CN 201480020537 A 20140312; DE 102013206428 A 20130411; EP 14709649 A 20140312;
JP 2016506822 A 20140312; US 201414783822 A 20140312