

Title (en)

APPARATUS AND METHOD FOR DIAGNOSING FAILURE OF PISTON COOLING JET OF ENGINE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR DIAGNOSE DES VERSAGENS EINES KOLBENKÜHLUNGSSTRAHLS EINES MOTORS

Title (fr)

APPAREIL ET PROCÉDÉ DE DIAGNOSTIC DE PANNE DE JET DE REFROIDISSEMENT DE PISTON D'UN MOTEUR

Publication

EP 3103980 A1 20161214 (EN)

Application

EP 15191586 A 20151027

Priority

KR 20150083285 A 20150612

Abstract (en)

An apparatus for diagnosing failure of a piston cooling jet of an engine includes an oil line for a piston cooling jet arranged in a cylinder block in a longitudinal direction, a piston cooling jet mounted at the oil line for the piston cooling jet to inject oil to a piston, a solenoid valve mounted at an inlet of the oil line for the piston cooling jet to selectively allow an injection operation of the piston cooling jet, an oil pressure detecting means mounted at the oil line for the piston cooling jet after the solenoid valve to detect oil pressure, and a control unit configured to receive a detection signal of the oil pressure detecting means and determine whether the solenoid valve is in a failure state.

IPC 8 full level

F01M 1/08 (2006.01); **F01M 1/16** (2006.01); **F01P 3/08** (2006.01); **F01P 11/18** (2006.01)

CPC (source: CN EP US)

F01M 1/08 (2013.01 - EP US); **F01M 1/16** (2013.01 - EP US); **F01P 3/08** (2013.01 - EP US); **F01P 11/14** (2013.01 - US); **F01P 11/18** (2013.01 - CN EP US); **F01M 2250/00** (2013.01 - EP US); **F01P 2003/006** (2013.01 - US); **F01P 2025/04** (2013.01 - CN); **F01P 2050/22** (2013.01 - CN)

Citation (search report)

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- [X] US 2011224883 A1 20110915 - BRUNO MORENA [IT], et al
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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)

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DOCDB simple family (publication)

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DOCDB simple family (application)

EP 15191586 A 20151027; CN 201510779580 A 20151113; US 201514922859 A 20151026