

Title (en)

METHOD FOR ADJUSTING AN AIR-FUEL RATIO TARGET VALUE DURING AIR SCAVENGING OF AN ENGINE

Title (de)

VERFAHREN ZUR EINSTELLUNG EINES LUFT-BRENNSTOFFVERHÄLTNISZIELWERTS WÄHREND DER LUFTSPÜLUNG EINES MOTORS

Title (fr)

PROCEDE DE REGLAGE D'UNE CONSIGNE DE RICHESSE LORS D'UN BALAYAGE D'AIR DANS UN MOTEUR

Publication

EP 3619413 A2 20200311 (FR)

Application

EP 18724961 A 20180424

Priority

- FR 1753905 A 20170503
- FR 2018051017 W 20180424

Abstract (en)

[origin: WO2018202976A2] The invention relates to a method for adjusting the richness set value (Sensor rich set value) during air scavenging of a so-called upstream sensor disposed in an exhaust line of a heat engine, the air scavenging being performed on fresh air in the engine and allowing unburnt air to enter the line, an adjustment of the richness of the air/fuel mixture in the engine being carried out according to an estimated richness set value (Sensor rich set value) at the upstream sensor based on a pre-determined richness set value for the engine and a richness measured by the upstream sensor. The richness set value (Sensor rich set value) at the upstream sensor estimated at a given moment is updated by a corrective term (Term) at least a function of an engine speed (RM) and the scavenged air level (Tb) at said given moment in order to supply an updated richness set value (Reac rich set value) at the upstream sensor.

IPC 8 full level

F02D 41/14 (2006.01); **F02D 41/24** (2006.01)

CPC (source: EP)

F02D 41/1401 (2013.01); **F02D 41/1441** (2013.01); **F02D 41/1456** (2013.01); **F02D 41/1486** (2013.01); **F02D 41/1454** (2013.01); **F02D 2041/1418** (2013.01); **F02D 2041/1431** (2013.01); **F02D 2041/1432** (2013.01); **F02D 2041/1433** (2013.01); **F02D 2200/101** (2013.01)

Citation (search report)

See references of WO 2018202976A2

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 2018202976 A2 20181108; **WO 2018202976 A3 20190103**; CN 110914528 A 20200324; CN 110914528 B 20220527; EP 3619413 A2 20200311; FR 3065991 A1 20181109; FR 3065991 B1 20210312; MA 50599 A 20200812

DOCDB simple family (application)

FR 2018051017 W 20180424; CN 201880029502 A 20180424; EP 18724961 A 20180424; FR 1753905 A 20170503; MA 50599 A 20180424