

Title (en)

INTERNAL COMBUSTION ENGINE AND RUNNING METHOD ASSOCIATED WITH SUCH AN ENGINE

Title (de)

VERBRENNUNGSMOTOR UND MIT SOLCH EINEM MOTOR VERBUNDENES BETRIEBSVERFAHREN

Title (fr)

MOTEUR A COMBUSTION INTERNE ET PROCÉDÉ DE FONCTIONNEMENT ASSOCIÉ A UN TEL MOTEUR

Publication

EP 2417344 A1 20120215 (FR)

Application

EP 10716570 A 20100323

Priority

- FR 2010050518 W 20100323
- FR 0952228 A 20090406

Abstract (en)

[origin: WO2010116064A1] The invention relates to a multi-cylinder internal combustion engine including air intake means (6), fuel supply means (12), exhaust means (23) for combustion gases produced by the cylinders (2, 3, 4, 5), said engine comprising a first cylinder (2) capable of running on a rich mixture in order to generate hydrogen-laden combustion gases and a circuit (29) enabling the recirculation of combustion gases from the first cylinder (2) toward the air intake means (6), characterized in that the supply means (12) are provided for supplying at least the first cylinder (2) with a secondary hydrocarbon or hydrocarbon mixture fuel having between 1 and 4 carbon atoms, and for supplying at least the other cylinders (3, 4, 5) with a primary fuel other than the secondary fuel. The invention also relates to a running method for an engine according to the invention.

IPC 8 full level

F02M 25/07 (2006.01); **F02B 43/00** (2006.01); **F02D 19/08** (2006.01); **F02D 41/00** (2006.01); **F02M 37/00** (2006.01)

CPC (source: EP)

F02D 19/0644 (2013.01); **F02D 19/0692** (2013.01); **F02D 19/081** (2013.01); **F02D 41/0027** (2013.01); **F02D 41/005** (2013.01); **F02D 41/008** (2013.01); **F02M 26/06** (2016.02); **F02M 26/43** (2016.02); **F02M 37/0064** (2013.01); **F02D 19/0652** (2013.01); **F02D 19/0671** (2013.01); **Y02T 10/30** (2013.01); **Y02T 10/40** (2013.01)

Citation (search report)

See references of WO 2010116064A1

Citation (examination)

DE 102007039313 A1 20090226 - STADTBahn SAAR GMBH [DE]

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

FR 2944056 A1 20101008; EP 2417344 A1 20120215; WO 2010116064 A1 20101014

DOCDB simple family (application)

FR 0952228 A 20090406; EP 10716570 A 20100323; FR 2010050518 W 20100323