Title (en)

System for performing an engine braking procedure based on decompression events for a 4-stroke cycle engine

Title (de)

System zur Durchführung eines Motorbremsverfahrens basierend auf Dekompressionsereignissen eines 4-Takt-Motors

Title (fr)

Système permettant de réaliser une intervention de freinage moteur sur la base des événements de décompression pour un moteur à cycle à quatre temps

Publication

EP 2808503 A1 20141203 (EN)

Application

EP 13169302 A 20130527

Priority

EP 13169302 A 20130527

Abstract (en)

System for performing an engine braking procedure based on decompression events for a 4-stroke cycle engine, the engine comprising at least a cylinder having an inlet pipe and an outlet pipe, cylinder inlet and outlet valves and control means for controlling a displacement of said cylinder valves. The system performs a first compression phase (B-II) followed by a first decompression event (B-II') and, in succession, a sucking phase (B-III) from the outlet pipe and a second compression phase (B-IV) followed by a second decompression event (B-IV').

IPC 8 full level

F01L 1/08 (2006.01); **F01L 13/06** (2006.01); **F02D 13/02** (2006.01); **F02D 13/04** (2006.01); F01L 13/00 (2006.01)

CPC (source: EP)

F01L 1/08 (2013.01); **F01L 13/06** (2013.01); **F02D 13/0273** (2013.01); **F02D 13/04** (2013.01); F01L 2013/0052 (2013.01)

Citation (applicant)
- EP 0208663 A1 19870114 - FIAT AUTO SPA [IT]
- NORBERT NITZ; HARALD ELENDT; ARNDT IHLEMANN; ANDREAS NENDEL: "INA cam shifting method", 2010, SCHAEFFLER SYMPOSIUM

Citation (search report)
- [X] US 4512154 A 19850423 - UENO TAKAHIRO [JP]
- [X] DE 102004006681 A1 20050825 - DAIMLER CHRYSLER AG [DE]
- [A] US 2009038584 A1 20090212 - SCHMID WOLFRAM [DE], et al
- [X] US 2004187842 A1 20040930 - YANG ZHOU [US]

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)

EP 2808503 A1 20141203; BR 112015029560 A2 20170725; BR 112015029560 B1 20220705; CN 105392970 A 20160309; CN 105392970 B 20171003; EP 3004575 A1 20160413; EP 3004575 B1 20171213; ES 2662585 T3 20180409; WO 2014191385 A1 20141204

DOCDB simple family (application)

EP 13169302 A 20130527; BR 112015029560 A 20140527; CN 201480030911 A 20140527; EP 14735862 A 20140527; EP 2014060903 W 20140527; ES 14735862 T 20140527