

Title (en)

INTERNAL COMBUSTION ENGINE HAVING A CRANKSHAFT AND AT LEAST ONE CYLINDER HEAD, AND MOTOR VEHICLE HAVING AN INTERNAL COMBUSTION ENGINE OF SAID TYPE

Title (de)

BRENNKRAFTMASCHINE MIT EINER KURBELWELLE UND WENIGSTENS EINEM ZYLINDERKOPF SOWIE KRAFTFAHRZEUG MIT EINER DERARTIGEN BRENNKRAFTMASCHINE

Title (fr)

MOTEUR À COMBUSTION INTERNE COMPRENANT UN VILEBREQUIN ET AU MOINS UNE CULASSE AINSI QUE VÉHICULE AUTOMOBILE MUNI D'UN TEL MOTEUR À COMBUSTION INTERNE

Publication

EP 2162601 B1 20151202 (DE)

Application

EP 08759163 A 20080611

Priority

- EP 2008004646 W 20080611
- DE 102007032638 A 20070711

Abstract (en)

[origin: WO2009006973A1] The invention relates to an internal combustion engine comprising a crankshaft and comprising at least one cylinder head (300) which can be traversed by flow at least approximately in the crankshaft axial direction from an inlet to an outlet duct and which has valves (304, 305, 314, 315) for opening and closing the ducts (302), wherein two camshafts (326, 327) are provided for actuating the valves (304, 305, 314, 315) and each of the camshafts (326, 327) is assigned in each case to one inlet valve (304, 305) and one outlet valve (314, 315) and is aligned at least approximately parallel to the crankshaft; the invention also relates to a motor vehicle having an internal combustion engine of said type.

IPC 8 full level

F01L 1/053 (2006.01)

CPC (source: EP US)

F01L 1/053 (2013.01 - EP US); **F01L 1/185** (2013.01 - EP US); **F01L 2001/0537** (2013.01 - EP US); **F01L 2003/256** (2013.01 - EP US)

Citation (examination)

- GB 404501 A 19340118 - FISKER & NIELSEN AS, et al
- JP H06317110 A 19941115 - MITSUBISHI MOTORS CORP

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102007032638 A1 20090115; EP 2162601 A1 20100317; EP 2162601 B1 20151202; ES 2556730 T3 20160119; JP 2010532839 A 20101014; JP 5484322 B2 20140507; US 2010050968 A1 20100304; US 8307798 B2 20121113; WO 2009006973 A1 20090115

DOCDB simple family (application)

DE 102007032638 A 20070711; EP 08759163 A 20080611; EP 2008004646 W 20080611; ES 08759163 T 20080611; JP 2010515359 A 20080611; US 61487509 A 20091109