

Title (en)
CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE

Title (de)
STEUERUNGSVORRICHTUNG FÜR EINEN VERBRENNUNGSMOTOR

Title (fr)
APPAREIL DE COMMANDE POUR MOTEUR À COMBUSTION INTERNE

Publication
EP 2458187 A4 20140108 (EN)

Application
EP 10802268 A 20100721

Priority

- JP 2009171043 A 20090722
- JP 2010062206 W 20100721

Abstract (en)
[origin: EP2458187A1] [Problem] To securely perform determinations of strokes of an engine. [Solving Means] A control apparatus for an engine measures a maximum pressure P2 and a minimum pressure P1 in an intake pipe during one revolution of a crankshaft and calculates a difference between the maximum pressure P2 and the minimum pressure P1 as an intake-air-pressure fluctuation range DPMTDC. The control apparatus compares, with respect to a magnitude relation, a previous intake-air-pressure fluctuation range with a current intake-air-pressure fluctuation range. When variations in the magnitude relation between the intake-air-pressure fluctuation ranges DPMTDC occur three consecutive times, the control apparatus makes a stroke determination, and determines that the engine is in expansion and exhaust strokes when a variation in the intake-air-pressure fluctuation ranges DPMTDC is from large to small.

IPC 8 full level
F02D 45/00 (2006.01)

CPC (source: EP)
F02D 41/009 (2013.01); **F02D 2041/0092** (2013.01); **F02D 2200/0406** (2013.01); **F02D 2400/02** (2013.01); **F02P 5/1506** (2013.01)

Citation (search report)

- [A] EP 1541845 A1 20050615 - YAMAHA MOTOR CO LTD [JP]
- [A] EP 1775452 A2 20070418 - YAMAHA MOTOR CO LTD [JP]
- [A] GB 2064138 A 19810610 - TI CRYPTON LTD
- [A] US 5068613 A 19911126 - KREFT KEITH A [US], et al
- See references of WO 2011010648A1

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 SE SI SK SM TR

DOCDB simple family (publication)
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