

Title (en)

ATMOSPHERIC PRESSURE DETECTOR OF INTERNAL COMBUSTION ENGINE

Title (de)

DETEKTOR EINER BRENNKRAFTMASCHINE ZUR ERFASSUNG VON ATMOSPHERISCHEM DRUCK

Title (fr)

DETECTEUR DE PRESSION ATMOSPHERIQUE POUR MOTEUR A COMBUSTION INTERNE

Publication

EP 1433944 A1 20040630 (EN)

Application

EP 02779903 A 20021003

Priority

- JP 0210340 W 20021003
- JP 2001308628 A 20011004
- JP 2002270007 A 20020917

Abstract (en)

Intake pressures P_{Mi} are detected at each crank angle position of 30 DEG Å DEG CA (Crank Angle) after an internal combustion engine 1 is started, and the intake pressures P_{Mi} are smoothed according to transition conditions thereof so as to be obtained as an atmospheric pressure. As this occurs, the plurality of intake pressures P_{Mi} are smoothed provided that a difference DELTA PM between the maximum PMMAX and minimum PMMIN of the plurality of intake pressures P_{Mi} is small enough to fall within a predetermined value. As an atmospheric pressure, when intake pressures P_{Mi} are stable, can be obtained by the plurality of samplings at the crank angle positions, the reliability of an atmospheric pressure detector for an internal combustion engine can be increased. <IMAGE>

IPC 1-7

F02D 45/00

IPC 8 full level

F02D 45/00 (2006.01); **F02D 41/18** (2006.01)

CPC (source: EP)

F02D 41/18 (2013.01); **F02D 2200/0406** (2013.01); **F02D 2200/703** (2013.01); **F02D 2200/704** (2013.01)

Cited by

US2013245916A1; EP2644881A3; FR3128490A1; EP2011983A1; FR3089256A1; FR3089257A1; US9347417B2; US7801691B2; US11415072B2; WO2020115098A1; EP3825539A4; WO2023072565A1

Designated contracting state (EPC)

IT

DOCDB simple family (publication)

EP 1433944 A1 20040630; **EP 1433944 A4 20081029**; **EP 1433944 B1 20120808**; CN 100510363 C 20090708; CN 1476515 A 20040218; JP 2003176749 A 20030627; WO 03031793 A1 20030417

DOCDB simple family (application)

EP 02779903 A 20021003; CN 02803124 A 20021003; JP 0210340 W 20021003; JP 2002270007 A 20020917