

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 B1 20120808 (EN)**

Application

**EP 02779903 A 20021003**

Priority

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

Abstract (en)

[origin: EP1433944A1] 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 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; FR3128490A1; FR3089256A1; FR3089257A1; EP2644881A3; EP2011983A1; US9347417B2; US7801691B2; US11415072B2; WO2020115098A1; EP3825539A4; WO2023072565A1

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