

Title (en)  
METHOD OF MEASURING AMBIENT PRESSURE IN A TURBOCHARGED ENGINE

Title (de)  
UMGEBUNGSDRUCKMESSUNG IN EINER TURBOBRENNKRAFTMASCHINE

Title (fr)  
MESURE DE LA PRESSION AMBIANTE DANS UN MOTEUR TURBOCOMPRESSE

Publication  
**EP 1606501 A1 20051221 (FR)**

Application  
**EP 04721829 A 20040319**

Priority  
• EP 2004002887 W 20040319  
• FR 0303702 A 20030326

Abstract (en)  
[origin: WO2004085811A1] The invention relates to a method of determining the ambient pressure which is performed in a turbocharged engine comprising a throttle which is disposed between a heat exchange chamber, known as an intercooler, and an intake manifold. In addition, a compressor is provided in order to compress the air in the heat exchange chamber, and the engine is equipped with means for indicating the pressure in said chamber. The inventive method comprises the following steps consisting in: detecting the opening of the throttle; measuring the pressure (MAP\_UP) in the heat exchange chamber; and determining the ambient pressure (AMP) by measuring the pressure (MAP\_UP) in the heat exchange chamber at a pre-determined moment which is defined in relation to a characteristic point of the curve (24) representing the pressure (MAP\_UP) in the heat exchange chamber as a function of time, the ambient pressure (AMP) being equal to the pressure measured in the heat exchange chamber.

IPC 1-7  
**F02B 37/00**; **F02B 77/08**

IPC 8 full level  
**F02B 77/08** (2006.01); **F02B 37/00** (2006.01)

CPC (source: EP KR US)  
**F02B 37/00** (2013.01 - KR); **F02B 77/08** (2013.01 - EP KR US); **F02B 37/00** (2013.01 - EP US); **F02D 2200/704** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004085811A1

Designated contracting state (EPC)  
DE ES GB IT

DOCDB simple family (publication)  
**FR 2853012 A1 20041001**; **FR 2853012 B1 20060616**; EP 1606501 A1 20051221; JP 2006521493 A 20060921; JP 4490416 B2 20100623; KR 101135228 B1 20120412; KR 20050121214 A 20051226; US 2007137288 A1 20070621; US 7293452 B2 20071113; WO 2004085811 A1 20041007

DOCDB simple family (application)  
**FR 0303702 A 20030326**; EP 04721829 A 20040319; EP 2004002887 W 20040319; JP 2006504747 A 20040319; KR 20057017956 A 20040319; US 55068604 A 20040319