

Title (en)

Method and system for estimating pressure in the intake manifold of an internal combustion engine

Title (de)

Verfahren und System zum Schätzen des Druckes im Ansaugkrümmer einer Verbrennungskraftmaschine

Title (fr)

Procédé et dispositif pour estimer la pression dans le collecteur d'admission d'un moteur à combustion interne

Publication

EP 1777397 B1 20081203 (FR)

Application

EP 06301084 A 20061024

Priority

FR 0510824 A 20051024

Abstract (en)

[origin: EP1777397A1] The method involves taking a value of pressure in a combustion chamber (3) of a cylinder (1) of an engine, based on an angular position of a crankshaft (5), at an instant of an engine cycle close to an instant of closing of an inlet valve (6a) of the cylinder. A ratio between a value (p_{col}) of a pressure to be obtained and the value ($p_{cyl\ rfa}$) of the taken pressure is modeled. The pressure in an intake manifold (6) is calculated for each taken value. The value of the pressure to be obtained and taken pressure value are related by an equation $P_{col} = A \times p_{cyl\ rfa} + B$, where A, B are constants. An independent claim is also included for a device for estimating pressure in an intake manifold.

IPC 8 full level

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CPC (source: EP)

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Cited by

WO2010124758A1; GB2469826A; GB2469826B; DE112010002283T5

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