

Title (en)

An internal combustion engine, an engine crankcase gas blow-by sensor and a method of evaluating performance of an internal combustion engine

Title (de)

Brennkraftmaschine, ein Durchblasgassensor und ein Verfahren zur Auswertung der Leistung einer Brennkraftmaschine

Title (fr)

Moteur à combustion interne, un capteur des gaz de combustion imbrûlés et un procédé pour évaluer la performance d'un moteur à combustion interne

Publication

**EP 0777041 A2 19970604 (EN)**

Application

**EP 96308618 A 19961128**

Priority

US 56441995 A 19951125

Abstract (en)

In a closed crankcase ventilation system, crankcase gases are allowed to flow through a venturi (10) which includes high pressure and low pressure taps (24 and 28). The high and low pressure taps (24) and (28) are coupled to a differential pressure transducer (30) which produces an output that is proportional to the volumetric flow of crankcase gases through the venturi (10). The use of a venturi (10) in conjunction with a differential pressure sensor (30) offers a low resistance path for the flow of crankcase gases and allows continuous monitoring of blow-by without exceeding the operating pressure limitations of various oil seals. Such a sensor (30) is particularly suited for closed crankcase ventilation (ccv) systems, as it doesn't require venting of crankcase gases to the atmosphere, but works well in open crankcase ventilation systems also. <IMAGE>

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**F02B 77/08**; **F01M 11/10**; **F01M 13/00**

IPC 8 full level

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CPC (source: EP)

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Cited by

CN102749203A; CN112051047A; CN113670624A; CN111946422A; CN110160792A; US2016069304A1; US10060394B2; EP2386733A1; CN103003536A; FR3051020A1; CN110725760A; US7954363B2; WO2005061865A1; WO2011141191A1; WO2017191413A1; US8695400B2; US9447745B2

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