

Title (en)

Detection arrangement suitable for detecting the intake air flow rate in an internal combustion engine.

Title (de)

Anordnung zur Messung der Ansaugluftmenge einer Brennkraftmaschine.

Title (fr)

Arrangement pour la détection du volume d'air d'aspiration dans un moteur à combustion interne.

Publication

EP 0095516 A1 19831207 (EN)

Application

EP 82104720 A 19820528

Priority

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Abstract (en)

An apparatus for measuring the flow rate of intake air into an internal combustion engine is designed such that conduit-mounted ultrasonic transducers (4) can respond quickly to changes in the intake air temperature. In this manner, any modulation of the emitted ultrasonic energy due to temperature effects can be eliminated, so that the device may accurately measure the flow. The detector portion (2) carrying the sensors (4) is mounted within a casing (1) (e. g. the air filter casing) by a partition wall (9) which is downstream of the sensors (4).

IPC 1-7

F02M 35/04

IPC 8 full level

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CPC (source: EP)

F02M 35/021 (2013.01)

Citation (search report)

- [A] GB 2044352 A 19801015 - MITSUBISHI MOTORS CORP, et al
- [A] FR 2479339 A1 19811002 - MITSUBISHI ELECTRIC CORP [JP]
- [A] DE 3025431 A1 19810115 - NISSAN MOTOR
- [AD] US 3818877 A 19740625 - BARRERA C, et al

Cited by

EP0531858A1; EP1591653A1; EP0221267A3; EP0222987A3; EP2169209A1; GB2328514A; FR2767357A1; GB2328514B

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