

Title (en)
Exhaust manifold for an internal combustion engine

Title (de)
Abgaskrümmer einer Brennkraftmaschine

Title (fr)
Collecteur d'échappement pour moteur à combustion interne

Publication
EP 1433934 A3 20050706 (EN)

Application
EP 03029239 A 20031218

Priority
JP 2002372510 A 20021224

Abstract (en)
[origin: EP1433934A2] An exhaust manifold for a four-cylinder internal combustion engine, including four branches (5,6,7,8), a downstream exhaust pipe (9) connected with the four branches, and a partition wall (10,110) dividing an exhaust path in the downstream exhaust pipe (9) into first and second passages (11,12) each having a semicircular section. Each of the first and second passages (11,12) is connected with two of the branches (5,6,7,8) which are connected with two of the four engine cylinders (#1,#2,#3,#4) having non-continuous order of ignition and communicated with first and second quarter-circular regions (A,B,C,D) in the semicircular section of the passages (11,12), respectively. An air-fuel ratio sensor (16) mounted to the downstream exhaust pipe (9) projects into both of the passages (11,12) through a cutout (18) formed on one side of the partition wall (10,110) in a width direction perpendicular to an axial direction of the downstream exhaust pipe (9). A communication portion (21,22,23,24) formed in the partition wall (10,110) fluidly communicates the passages (11,12) with each other. <IMAGE> <IMAGE>

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CPC (source: EP KR)
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Citation (search report)
• [A] FR 2586753 A1 19870306 - PEUGEOT CYCLES [FR]
• [DA] US 6012315 A 20000111 - SEKIDO YUTAKA [JP], et al
• [DA] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 20 10 July 2001 (2001-07-10)

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