

Title (en)

INTAKE AND AIR-FUEL MIXTURE PREPARING SYSTEM FOR SPARK-IGNITED MULTI-CYLINDER INTERNAL COMBUSTION ENGINE

Publication

**EP 0433908 B1 19930811 (DE)**

Application

**EP 90124212 A 19901214**

Priority

DE 3942578 A 19891222

Abstract (en)

[origin: EP0433908A1] In the case of such a system with at least two inlet valves (11) per cylinder, at least two separate intake pipe arms (I-1, I-2, I-3, I-4; II-1, II-2, II-3, II-4) assigned to the inlet valves for each cylinder (21, 22, 23, 24) and fuel injection (I-5; II-5, II-6, II-7, II-8) it is proposed that the first intake pipe arms for each cylinder be brought together to form a first assembly (25) and further intake pipe arms for each cylinder to form at least a further assembly (26) and that a throttle element (I-7 and II-10) be assigned to each assembly. The first assembly (25) contains a common fuel injection (I-5), and one injection (II-5, II-6, II-7, II-8) is assigned to the intake pipe arms or inlet ducts of the further assembly (26) or the further assemblies. At the same time the throttle elements of the individual assemblies are so controlled that for the low air flow range the first assembly (25) is first opened and the further assembly (26) or assemblies are opened as a function of the speed and load at higher rates of air flow. <IMAGE>

IPC 1-7

**F02M 35/10; F02M 69/04**

IPC 8 full level

**F02F 1/42** (2006.01); **F02M 35/10** (2006.01); **F02M 35/108** (2006.01); **F02M 69/04** (2006.01); **F02B 1/04** (2006.01); **F02F 1/24** (2006.01)

CPC (source: EP US)

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**F02M 35/108** (2013.01 - EP US); **F02M 35/1085** (2013.01 - EP US); **F02M 69/044** (2013.01 - EP US); **F02B 1/04** (2013.01 - EP US);  
**F02F 2001/245** (2013.01 - EP US); **F02F 2001/247** (2013.01 - EP US); **F02M 35/112** (2013.01 - EP US)

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