

Title (en)
FUEL INJECTION VALVE

Publication
EP 0307651 A3 19900314 (DE)

Application
EP 88113541 A 19880820

Priority
DE 3731211 A 19870917

Abstract (en)
[origin: EP0307651A2] In the lean-burn operation of spark ignition internal combustion engines, improvements in consumption and emission are obtained if the fuel is injected directly into the combustion chamber. Owing to large charge cycle control cross-sections, the space for installation of injection valve and spark plug is very limited and malfunctions in the combustion process occur owing to excessive gaps between injection valve and ignition device. <??>By the development of a fuel injection valve, which has wire electrodes on the injection side for forming a spark ignition device, the spark gap crossing in the area of the fuel introduced by the injection valve, optimum flame propagation conditions are obtained even for poorly flammable fuels or in the case of an extremely low proportion of fuel in the combustion chamber filling (stratified charge operation). <IMAGE>

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F02M 57/06

IPC 8 full level
F02M 57/06 (2006.01); **F02M 61/08** (2006.01); **F02P 13/00** (2006.01); **F02B 1/04** (2006.01)

CPC (source: EP US)
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Citation (search report)
• [A] FR 640927 A 19280724
• [A] US 1596240 A 19260817 - DIKEMAN MYRON J
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• [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 297 (M-432)(2020) 25 November 1985, & JP-A-60 135662 (NISSAN) 19 Juli 1985,

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