

Title (en)
Fuel system

Title (de)
Kraftstoffsystem

Title (fr)
Système de combustible

Publication
EP 1236883 A2 20020904 (EN)

Application
EP 02251468 A 20020301

Priority
GB 0105193 A 20010302

Abstract (en)
A fuel system comprising a fuel injector (10) having a delivery chamber (22) which is arranged to receive fuel from a source (34) of high pressure fuel and from which fuel is delivered to a combustion space upon initiation of injection, comprising first and second control chambers (26, 44) for receiving a control fluid, a three way control valve arrangement (32) which is operable to control fluid pressure within the first control chamber (26) so as to control fuel injection timing, and to control fluid pressure within the second chamber (44), and a shut-off valve arrangement (46) operable in response to fluid pressure variations within the second control chamber (44) so as to control the flow of fuel between the source (34) of high pressure fuel and the delivery chamber (22) of the injector. The three way control valve arrangement (32) is actuatable between a first position in which the first control chamber (26) communicates with a source (34; 61) of control fluid at relatively high pressure and a second position in which the first control chamber (26) communicates with a low pressure control fluid reservoir (38; 60). <??>The invention provides the advantage that leakage of fuel into the engine cylinder or other combustion space of the associated engine is reduced as the flow of high pressure fuel into the delivery chamber (22) is terminated between successive injections of fuel. <IMAGE>

IPC 1-7
F02M 47/02; **F02M 63/00**

IPC 8 full level
F02M 47/02 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 47/027 (2013.01); **F02M 63/0005** (2013.01); **F02M 63/0045** (2013.01)

Citation (applicant)
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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1236883 A2 20020904; **EP 1236883 A3 20031126**; GB 0105193 D0 20010418

DOCDB simple family (application)
EP 02251468 A 20020301; GB 0105193 A 20010302