

Title (en)
Fuel system

Title (de)
Kraftstoffsystem

Title (fr)
Système de combustible

Publication
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Application
EP 02251468 A 20020301

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GB 0105193 A 20010302

Abstract (en)
[origin: EP1236883A2] 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 actuable 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>

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Citation (search report)

- [X] DE 2759255 A1 19790712 - BOSCH GMBH ROBERT
- [A] EP 1036931 A2 20000920 - DELPHI TECH INC [US]
- [A] DE 19612721 A1 19961002 - AVL VERBRENNUNGSKRAFT MESSTECH [AT]

Cited by
DE102017004540A1; EP1286043A3; EP1941154A4; WO2007027331A1

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