

Title (en)  
Fuel system

Title (de)  
Brennstoffsystem

Title (fr)  
Système de carburant

Publication  
**EP 0992675 A3 20001011 (EN)**

Application  
**EP 99307975 A 19991008**

Priority  
GB 9821929 A 19981009

Abstract (en)  
[origin: EP0992675A2] A fuel system comprising a fuel pump (10) having a pumping chamber (18), a spill valve (22) operable to control the timing of fuel pressurization by the pump and a fuel injector (36) comprising a valve needle (38) slidable within a bore. A surface associated with the valve needle (38) is exposed to the fuel pressure within a control chamber (50), and an injection control valve (56) is arranged to control the fuel pressure within the control chamber (50). The injection control valve (56) comprises an electromagnetically actuable valve arranged such that when said actuator (62) thereof is energized, the control chamber (50) is exposed to substantially the fuel pressure within the pumping chamber (18) of the fuel pump (10), de-energization of the actuator (62) of the injection control valve (56) permitting the fuel pressure within the control chamber (50) to fall to a level sufficiently low to allow injection of fuel to occur through the fuel injector (36). <IMAGE>

IPC 1-7  
**F02M 47/02**; **F02M 45/08**; **F02M 59/36**

IPC 8 full level  
**F02M 45/08** (2006.01); **F02M 47/02** (2006.01); **F02M 59/36** (2006.01)

CPC (source: EP)  
**F02M 45/08** (2013.01); **F02M 47/027** (2013.01); **F02M 59/366** (2013.01)

Citation (search report)

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- [A] US 5738075 A 19980414 - CHEN SHIKUI K [US], et al
- [A] US 5551398 A 19960903 - GIBSON DENNIS H [US], et al

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