

Title (en)  
SOLENOID VALVE SUCH AS AN IMPACT SOLENOID VALVE FOR A HAMMER-EFFECT FUEL INJECTION SYSTEM IN A MOTOR VEHICLE

Title (de)  
MAGNETVENTIL, ZUM BEISPIEL STOSSVENTIL FÜR EINE DRUCKSTOSSEINSPRITZANORDNUNG VON KRAFTSTOFF IN EINEM KRAFTFAHRZEUGMOTOR

Title (fr)  
ELECTROVANNE PAR EXEMPLE D'IMPACT POUR UN SYSTEME D'INJECTION DE CARBURANT PAR EFFET DE COUP DE BELIER DANS UN MOTEUR DE VEHICULE

Publication  
**EP 0914557 A1 19990512 (FR)**

Application  
**EP 97931890 A 19970707**

Priority  
• FR 9701224 W 19970707  
• FR 9609243 A 19960723

Abstract (en)  
[origin: WO9803789A1] A solenoid valve (1) having a fuel inlet (3) and a fuel outlet (4) and containing a solenoid coil (5) combined with power supply control means therefor, as well as a magnetic piece (6) and a plunger (7) with facing contact surfaces. The plunger (7) is connected to sealing means (8) for opening and closing said outlet (4) by moving the plunger (7) relative to the magnetic piece and causing mutual engagement between the contact surfaces thereof. Said solenoid coil power supply control means (5a) are arranged to apply a current (I) to said coil that has a surge phase (A) and a plateau phase (M). At the end of the surge phase, the current has a shallower slope (A2) than at the start (A1) thereof, whereby the impact of the plunger (7) against the magnetic piece (6) is reduced as the valve body outlet is opened.

IPC 1-7  
**F02M 63/06**; **F02D 41/20**; **H01F 7/18**

IPC 8 full level  
**F02D 41/20** (2006.01); **F02M 59/46** (2006.01); **F02M 63/06** (2006.01); **H01F 7/18** (2006.01)

CPC (source: EP)  
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