

Title (en)  
REGULATED LINEAR PURGE SOLENOID VALVE

Title (de)  
GEREGELTES LINEAR-TANKLÜFTUNGSMAGNETVENTIL

Title (fr)  
ELECTROVANNE LINEAIRE A PURGE REGULEE

Publication  
**EP 0998629 B1 20021009 (EN)**

Application  
**EP 98931868 A 19980709**

Priority  
• CA 9800663 W 19980709  
• US 90097697 A 19970725

Abstract (en)  
[origin: WO9905408A1] A pressure regulator is associated with a solenoid-operated valve that may be operated by a pulse waveform at a fundamental frequency substantially greater than the frequency response of the valve mechanism. The pressure regulator causes a predetermined pressure differential across the valve mechanism that is independent both of pressure at the outlet of the regulator and pressure at the inlet of the valve, thereby providing improved flow control accuracy. The invention is especially advantageous for purging fuel vapor generated in a fuel tank to an intake manifold of an internal combustion engine of an automotive vehicle.

IPC 1-7  
**F02M 25/08**

IPC 8 full level  
**F02M 25/08** (2006.01); **F16K 31/06** (2006.01); **F16K 31/128** (2006.01); **G05D 7/06** (2006.01)

CPC (source: EP KR)  
**F02M 25/08** (2013.01 - KR); **F02M 25/0836** (2013.01 - EP)

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 9905408 A1 19990204**; AU 8203498 A 19990216; DE 69808638 D1 20021114; DE 69808638 T2 20030626; EP 0998629 A1 20000510; EP 0998629 B1 20021009; JP 2001511547 A 20010814; JP 3452900 B2 20031006; KR 100356943 B1 20021018; KR 20010022193 A 20010315

DOCDB simple family (application)  
**CA 9800663 W 19980709**; AU 8203498 A 19980709; DE 69808638 T 19980709; EP 98931868 A 19980709; JP 2000504366 A 19980709; KR 20007000765 A 20000124