

Title (en)  
FUEL INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE COMPRISING A MULTISTAGE HIGH-PRESSURE PUMP AND TWO PRESSURE ACCUMULATORS

Title (de)  
KRAFTSTOFFEINSPRITZSYSTEM FÜR EINE BRENNKRAFTMASCHINE, MIT MEHRSTUFIGER HOCHDRUCKPUMPE UND ZWEI DRUCKSPEICHERN

Title (fr)  
SYSTEME D'INJECTION DE CARBURANT POUR UN MOTEUR A COMBUSTION INTERNE, COMPRENANT UNE POMPE HAUTE PRESSION A PLUSIEURS ETAGES ET DEUX ACCUMULATEURS DE PRESSION

Publication  
**EP 1080307 A1 20010307 (DE)**

Application  
**EP 00906154 A 20000113**

Priority  
• DE 0000105 W 20000113  
• DE 19910976 A 19990312

Abstract (en)  
[origin: DE19910976A1] The invention relates to a fuel injection system for an internal combustion engine comprising at least two different high system pressures, whereby a first pressure accumulator (4) which is supplied by a first pump (3) is provided for the lower system pressure, and a second pressure accumulator (7) which is supplied by a second pump (6) is provided for the higher system pressure. At least the second pressure accumulator (7) can be connected via a line to the injectors (10) of the individual cylinders of the internal combustion engine. The second pump (6) is connected on the entry side to the first pressure accumulator (5).

IPC 1-7  
**F02M 63/02**; **F01L 9/02**

IPC 8 full level  
**F02M 37/04** (2006.01); **F02M 45/02** (2006.01); **F02M 45/04** (2006.01); **F02M 47/00** (2006.01); **F02M 55/00** (2006.01); **F02M 55/02** (2006.01); **F02M 59/44** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP KR US)  
**F02M 45/02** (2013.01 - EP US); **F02M 45/04** (2013.01 - EP US); **F02M 63/02** (2013.01 - KR); **F02M 63/0225** (2013.01 - EP US); **F02D 2041/3881** (2013.01 - EP US)

Citation (search report)  
See references of WO 0055497A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 19910976 A1 20000928**; **DE 19910976 B4 20040805**; EP 1080307 A1 20010307; JP 2002539373 A 20021119; KR 20010043468 A 20010525; US 6415767 B1 20020709; WO 0055497 A1 20000921

DOCDB simple family (application)  
**DE 19910976 A 19990312**; DE 0000105 W 20000113; EP 00906154 A 20000113; JP 2000605097 A 20000113; KR 20007012527 A 20001109; US 70028001 A 20010221