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

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

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

Publication
EP 1080308 A1 20010307 (DE)

Application
EP 00907451 A 20000126

Priority
- DE 0000213 W 20000126
- DE 19910971 A 19990312

Abstract (en)
[origin: DE19910971A1] 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 high-pressure pump (3) is provided for the higher system pressure and a second pressure accumulator (6) is provided for the lower system pressure. At least the first pressure accumulator (4) can be connected via a line to the injectors (10) of the individual cylinders of the internal combustion engine in order to effect a fuel injection. The pressure level of the high-pressure pump (3) is greater than the higher system pressure and the first pressure accumulator (4) has a first pressure control valve (5) leading to the second pressure accumulator (6), and the second pressure accumulator (6) comprises a second pressure control valve (7).

IPC 1-7
F02M 63/02; F02M 55/02

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

CPC (source: EP US)
F02M 55/025 (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); F02D 2041/3881 (2013.01 - EP US)

Citation (search report)
See references of WO 0055498A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19910971 A1 20000921; DE 50006309 D1 20040609; EP 1080308 A1 20010307; EP 1080308 B1 20040506; JP 2002539374 A 20021119; US 6598590 B1 20030729; WO 0055498 A1 20000921

DOCDB simple family (application)
DE 19910971 A 19990312; DE 0000213 W 20000126; DE 50006309 T 20000126; EP 00907451 A 20000126; JP 2000605098 A 20000126; US 70027700 A 20001229