

Title (en)
FUEL INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE AND METHOD FOR OPERATING A FUEL INJECTION SYSTEM

Title (de)
KRAFTSTOFFEINSPRITZANLAGE FÜR EINEN VERBRENNUNGSMOTOR UND VERFAHREN ZUM BETRIEB EINER
KRAFTSTOFFEINSPRITZANLAGE

Title (fr)
SYSTEME D'INJECTION DE CARBURANT POUR MOTEUR A COMBUSTION INTERNE ET PROCEDE D'EXPLOITATION D'UN SYSTEME
D'INJECTION DE CARBURANT

Publication
EP 1497543 A1 20050119 (DE)

Application
EP 03720258 A 20030404

Priority
• DE 0301112 W 20030404
• DE 10215627 A 20020409

Abstract (en)
[origin: WO03085245A1] The invention relates to a fuel injection system for an internal combustion engine, particularly for a diesel engine, comprising at least two cylinders. The fuel injection system comprises at least two actuator units, and at least one actuator element for injecting fuel into the cylinder is assigned to each cylinder. The fuel injection system additionally comprises an injection control for monitoring and/or for resolving a conflict when controlling the actuator elements. The invention is characterized in that the injection control controls the actuator elements earlier and/or later or not at all according to charging and/or discharging flanks of the injection elements during injections.

IPC 1-7
F02D 41/20; **F02M 59/46**

IPC 8 full level
F02D 41/20 (2006.01); **F02D 41/38** (2006.01); **F02D 41/40** (2006.01); **F02M 45/02** (2006.01); **F02M 51/06** (2006.01)

CPC (source: EP US)
F02D 41/20 (2013.01 - EP US); **F02D 41/2096** (2013.01 - EP US); **F02D 41/401** (2013.01 - EP US); **F02D 41/402** (2013.01 - EP US);
F02D 2041/2082 (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)
See references of WO 03085245A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 03085245 A1 20031016; CN 1630777 A 20050622; DE 10215627 A1 20031030; EP 1497543 A1 20050119; JP 2005522614 A 20050728;
US 2005284443 A1 20051229

DOCDB simple family (application)
DE 0301112 W 20030404; CN 03803513 A 20030404; DE 10215627 A 20020409; EP 03720258 A 20030404; JP 2003582403 A 20030404;
US 50972605 A 20050728