

Title (en)

INJECTOR FOR A FUEL INJECTION SYSTEM FOR INTERNAL COMBUSTION ENGINES COMPRISING AN INJECTOR NEEDLE THAT PROJECTS INTO THE VALVE CONTROL SPACE

Title (de)

INJEKTOR FÜR EIN KRAFTSTOFFEINSPRITZSYSTEM FÜR BRENNKRAFTMASCHINEN MIT IN DEN VENTILSTEUERRAUM RAGENDER DÜSENNADEL

Title (fr)

INJECTEUR POUR SYSTÈME D'INJECTION DE CARBURANT POUR MOTEURS À COMBUSTION INTERNE, MUNI D'UN POINTEAU FAISANT SAILLIE DANS LA CHAMBRE DE COMMANDE DE SOUPAPE

Publication

**EP 1144842 B1 20060412 (DE)**

Application

**EP 00979425 A 20001012**

Priority

- DE 0003597 W 20001012
- DE 19949527 A 19991014

Abstract (en)

[origin: DE19949527A1] The invention relates to an injector for a fuel injection system which comprises an at least partial compensation of the hydraulic forces acting upon the injector needle (21). In addition, the volume of fuel to be controlled is decreased thus making short control times possible.

IPC 8 full level

**F02M 47/02** (2006.01); **F02M 47/00** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)

**F02M 47/027** (2013.01 - EP US); **F02M 2200/21** (2013.01 - EP US); **F02M 2547/003** (2013.01 - EP US)

Citation (examination)

WO 0111219 A1 20010215 - BOSCH GMBH ROBERT [DE], et al

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 19949527 A1 20010419**; DE 50012570 D1 20060524; EP 1144842 A1 20011017; EP 1144842 B1 20060412; JP 2003511623 A 20030325; US 6820827 B1 20041123; WO 0127463 A1 20010419

DOCDB simple family (application)

**DE 19949527 A 19991014**; DE 0003597 W 20001012; DE 50012570 T 20001012; EP 00979425 A 20001012; JP 2001529577 A 20001012; US 86803901 A 20010905