

Title (en)

NOZZLE MODULE FOR AN INJECTION VALVE, AND INJECTION VALVE

Title (de)

DÜSENBAUGRUPPE FÜR EIN EINSPRITZVENTIL UND EINSPRITZVENTIL

Title (fr)

MODULE DE BUSES POUR UNE SOUPAPE D'INJECTION ET SOUPAPE D'INJECTION

Publication

**EP 2100028 B1 20110119 (DE)**

Application

**EP 07847330 A 20071126**

Priority

- EP 2007062793 W 20071126
- DE 102006058881 A 20061213

Abstract (en)

[origin: US2010034921A1] A nozzle module for an injection valve has a nozzle body with a nozzle body opening extending in the direction of a longitudinal axis, and which can be hydraulically coupled to a fluid feed; a nozzle needle which is movable axially in the nozzle body opening and which in a closed position prevents a flow of fluid through at least one injection opening and otherwise releases the fluid flow; and an induction-heated heating element disposed between the nozzle body and the nozzle needle. The heating element is at least partially spaced a distance away from the nozzle body and from the nozzle needle, and during operation of the injection valve the fluid can flow against a side of the heating element facing the nozzle body and a side of the heating element facing the nozzle needle.

IPC 8 full level

**F02M 53/06** (2006.01)

CPC (source: EP US)

**F02M 51/0671** (2013.01 - EP US); **F02M 53/06** (2013.01 - EP US); **F02M 61/166** (2013.01 - EP US); **F02M 51/0603** (2013.01 - EP US)

Cited by

DE102013102219B4; DE102011085680A1; DE102011085680B4; DE102013102219A1; US8955766B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**US 2010034921 A1 20100211**; **US 8256691 B2 20120904**; AT E496217 T1 20110215; BR PI0721096 A2 20140415; BR PI0721096 B1 20190115; DE 102006058881 A1 20080619; DE 502007006337 D1 20110303; EP 2100028 A1 20090916; EP 2100028 B1 20110119; WO 2008071535 A1 20080619

DOCDB simple family (application)

**US 51917107 A 20071126**; AT 07847330 T 20071126; BR PI0721096 A 20071126; DE 102006058881 A 20061213; DE 502007006337 T 20071126; EP 07847330 A 20071126; EP 2007062793 W 20071126