Title (en)

METHOD FOR INJECTING FUEL INTO THE COMBUSTION CHAMBERS OF AN INTERNAL COMBUSTION ENGINE, AND FUEL INJECTION SYSTEM FOR SAID ENGINE

Title (de)

VERFAHREN ZUM EINSPRITZEN VON KRAFTSTOFF IN DIE BRENNRÄUME EINER BRENNKRAFTMASCHINE, SOWIE KRAFTSTOFFEINSPRITZSYSTEM FÜR EINE SOLCHE

Title (fr)

PROCEDE POUR INJECTER DU CARBURANT DANS LES CHAMBRES DE COMBUSTION D'UN MOTEUR A COMBUSTION INTERNE ET SYSTEME D'INJECTION DE CARBURANT DESTINE A UN TEL MOTEUR

Publication

**EP 1370764 B1 20070314 (DE)**

Application

**EP 02727441 A 20020320**

Priority

• DE 10114252 A 20010322
• EP 0203053 W 20020320

Abstract (en)

[origin: DE10114252A1] The method involves controlling the start and end of the injection process by opening and closing fuel injectors. During injection a definite reduction in the fuel pressure occurring in the injectors occurs so that the increased pressure caused by closing the injection valve at the end of the injection process does not exceed a defined level. An Independent claim is also included for a fuel injection system for an internal combustion engine, especially a diesel engine.

IPC 8 full level

**F02M 55/02** (2006.01); **F02M 47/02** (2006.01); **F02M 55/04** (2006.01); **F02M 61/10** (2006.01); **F02M 63/02** (2006.01); F02M 63/00 (2006.01)

CPC (source: EP US)

**F02M 55/025** (2013.01 - EP US); **F02M 55/04** (2013.01 - EP US); **F02M 63/0215** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); F02M 2200/315 (2013.01 - EP US)

Citation (examination)

EP 0780569 A1 19970625 - NIPPON SOKEN [JP]

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DE FR GB IT

DOCDB simple family (publication)

**DE 10114252 A1 20020926**; **DE 10114252 C2 20030130**; DE 50209716 D1 20070426; EP 1370764 A1 20031217; EP 1370764 B1 20070314; JP 2004532369 A 20041021; JP 4133340 B2 20080813; US 2004112337 A1 20040617; US 6805102 B2 20041019; WO 02077441 A1 20021003

DOCDB simple family (application)

**DE 10114252 A 20010322**; DE 50209716 T 20020320; EP 0203053 W 20020320; EP 02727441 A 20020320; JP 2002575463 A 20020320; US 47213903 A 20030922