

Title (en)
Injection device

Title (de)
Einspritzvorrichtung

Title (fr)
Dispositif d'injection

Publication
EP 2177748 A3 20101215 (DE)

Application
EP 09172734 A 20091012

Priority
DE 102008042850 A 20081015

Abstract (en)
[origin: EP2177748A2] The injection device (1) has a valve arrangement (10) with a valve (11) that is sealed at a valve seat (13), where the valve arrangement is arranged for a medium (M) to be injected. An impulse transmission device (24) is arranged between the valve arrangement and an actuator device (20) and separates the valve arrangement from the actuator device in a fluid-tight manner. The impulse transmission device transmits the impulse produced by the actuator device to the medium to be injected for opening the valve arrangement and for injecting the medium. An independent claim is also included for a method for injecting a medium by an injection device.

IPC 8 full level
F02M 69/04 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)
F02M 63/06 (2013.01 - EP US); **F02M 69/041** (2013.01 - EP US)

Citation (search report)

- [XY] US 5169067 A 19921208 - MATSUSAKA MASANOBU [JP], et al
- [Y] JP S6060254 A 19850406 - HITACHI LTD
- [A] JP S58155232 A 19830914 - MITSUBISHI ELECTRIC CORP

Cited by
CN103097711A; EP2461012A1; WO2012019869A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2177748 A2 20100421; EP 2177748 A3 20101215; EP 2177748 B1 20180711; DE 102008042850 A1 20100422; JP 2010096182 A 20100430; JP 5656385 B2 20150121; US 2010187336 A1 20100729; US 8678302 B2 20140325

DOCDB simple family (application)
EP 09172734 A 20091012; DE 102008042850 A 20081015; JP 2009238560 A 20091015; US 57888809 A 20091014