

Title (en)
FUEL INJECTOR VALVE

Title (de)
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 2739844 A1 20140611 (DE)

Application
EP 12727637 A 20120606

Priority
• DE 102011080355 A 20110803
• EP 2012060700 W 20120606

Abstract (en)
[origin: WO2013017320A1] The invention relates to a fuel injector valve for injecting fuel, comprising a coil (2), an inner pole (3), a valve sleeve (4), and a magnet separation element (40), wherein the valve sleeve (4) and the magnet separation element (40) are configured as a one-piece powder-injection molding component (41). The valve sleeve (4) forms a magnetic field and the magnet separation element (40) forms a non-magnetic field, which are bonded to one another.

IPC 8 full level
F02M 61/16 (2006.01); **B22F 3/22** (2006.01); **B22F 5/10** (2006.01); **C22C 33/02** (2006.01); **F02M 51/06** (2006.01); **H01F 3/10** (2006.01); **H01F 7/08** (2006.01); **H01F 41/02** (2006.01)

CPC (source: EP KR US)
B22F 3/225 (2013.01 - KR); **B22F 5/106** (2013.01 - EP KR US); **C22C 33/0285** (2013.01 - KR); **F02M 51/061** (2013.01 - EP KR US); **F02M 51/0614** (2013.01 - US); **F02M 61/166** (2013.01 - EP KR US); **F02M 61/168** (2013.01 - EP KR US); **B22F 3/225** (2013.01 - EP US); **C22C 33/0285** (2013.01 - EP US); **F02M 2200/8046** (2013.01 - EP KR US); **F02M 2200/9053** (2013.01 - EP KR US); **H01F 41/0246** (2013.01 - EP US); **H01F 2003/106** (2013.01 - EP KR US); **H01F 2007/085** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2013017320A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102011080355 A1 20130207; CN 103732906 A 20140416; CN 103732906 B 20170908; EP 2739844 A1 20140611; EP 2739844 B1 20151021; JP 2014521869 A 20140828; JP 5931194 B2 20160608; KR 101980066 B1 20190521; KR 20140048955 A 20140424; US 2014224902 A1 20140814; US 9394867 B2 20160719; WO 2013017320 A1 20130207

DOCDB simple family (application)
DE 102011080355 A 20110803; CN 201280037350 A 20120606; EP 12727637 A 20120606; EP 2012060700 W 20120606; JP 2014523243 A 20120606; KR 20147002642 A 20120606; US 201214236806 A 20120606