

Title (en)
Fuel pump assembly

Title (de)
Treibstoffpumpenanordnung

Title (fr)
Assemblage de pompe à essence

Publication
EP 1413749 B1 20050817 (EN)

Application
EP 03256728 A 20031024

Priority
GB 0224936 A 20021025

Abstract (en)
[origin: EP1413749A2] The assembly includes a pump housing which supports pump heads (13a-13c). Each pump head has a separate insert (30a) installed to the pump housing, to define a rectangular or square cross-section guide path that guides the movement of a reciprocating shoe (24). Each pump head also has a plunger (14) that reciprocates within a plunger bore (16), to pressurize the fuel within the pump chamber of pump head housings.

IPC 1-7
F04B 1/04

IPC 8 full level
F04B 1/04 (2006.01); **F04B 1/053** (2006.01); **F04B 53/00** (2006.01)

CPC (source: EP)
F04B 1/0413 (2013.01); **F04B 1/0421** (2013.01); **F04B 1/0439** (2013.01); **F04B 1/053** (2013.01); **F04B 53/007** (2013.01)

Cited by
DE102013101121B4; GB2400418A; CN115638094A; GB2522204A; GB2522204B; DE102004048711A1; DE102004048711B4; CN102395788A; ITMI20081470A1; EP3318746A1; GB2555595A; US7600698B2; US7793867B2; US7762176B2; US8191459B2; WO2006072277A1; WO2005088125A1; WO2007096224A1; DE102013101121A1; US8915232B2; WO2009098095A1; WO2010094573A1; WO2010015448A1; WO2010118903A1; US10472964B2; US10858938B2; US11008863B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1413749 A2 20040428; EP 1413749 A3 20041027; EP 1413749 B1 20050817; AT E302343 T1 20050915; DE 60301312 D1 20050922; DE 60301312 T2 20060518; GB 0224936 D0 20021204

DOCDB simple family (application)
EP 03256728 A 20031024; AT 03256728 T 20031024; DE 60301312 T 20031024; GB 0224936 A 20021025