

Title (en)
Electro-magnetically driven dosing pump

Title (de)
Elektromagnetisch betreibbare Dosierpumpe

Title (fr)
Pompe à dosage activé par force electro-magnétique

Publication
EP 1764504 A1 20070321 (DE)

Application
EP 06090168 A 20060913

Priority
DE 102005044904 A 20050914

Abstract (en)
The pump has a movable differential piston (52) and plate and ball valves (58, 59), where the valve (59) is opened and closed during forward and backward motions of the piston, respectively. A part of the piston pushes the displaced volume of fuel through a discharge opening (61) and another part of the piston sucks the displaced volume of fuel through the suction-sided valve, such that the same volume of fuel is pumped during forward and backward motions of the piston or rotor. The valves are provided with different characteristic frequencies.

IPC 8 full level
F04B 13/00 (2006.01); **F04B 17/04** (2006.01); **F04B 53/12** (2006.01)

CPC (source: EP)
F04B 17/044 (2013.01)

Citation (search report)
• [X] US 2005047941 A1 20050303 - HUMBURG MICHAEL [DE]
• [X] US 3479959 A 19691125 - CHRISTENSEN WILLIAM N
• [X] DE 2410768 A1 19750918 - DANFOSS AS
• [A] DE 2017680 A1 19711028 - SWF

Cited by
CN102758755A; DE102008055611A1; EP2491968A1; WO2012113579A1; US9359999B2

Designated contracting state (EPC)
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Designated extension state (EPC)
AL BA HR MK YU

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