

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)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
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