

Title (en)  
Pump gear

Title (de)  
Pumpengetriebe

Title (fr)  
Boîte de vitesse de pompe

Publication  
**EP 1736666 B1 20091209 (DE)**

Application  
**EP 06011681 A 20060606**

Priority  
DE 102005029481 A 20050624

Abstract (en)  
[origin: EP1736666A1] The pump transmission has each connecting rod (15) mounted on its own crank. The cranks are offset from each other by a present angle, which is selected, relative to the angle enclosing the cylinder axes, so that the phase displacements between each two successive pistons (13) as the crankshaft (12) rotates are equal to each other.

IPC 8 full level  
**F04B 1/04** (2006.01); **F04B 27/04** (2006.01); **F04B 53/00** (2006.01)

CPC (source: EP US)  
**F04B 1/0404** (2013.01 - US); **F04B 1/0408** (2013.01 - US); **F04B 1/0413** (2013.01 - EP US); **F04B 1/0421** (2013.01 - EP US);  
**F04B 53/006** (2013.01 - EP US)

Cited by  
EP2458210A1; RU2697590C2; US11047371B2; US11310959B2; WO2016116334A1; WO2008034869A3; DE102010052426A1;  
US2016356160A1; US10677058B2; US10995739B2; WO2014202344A1; WO2014202345A1

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

DOCDB simple family (publication)  
**EP 1736666 A1 20061227; EP 1736666 B1 20091209**; AT E451550 T1 20091215; CN 1932286 A 20070321; DE 102005029481 A1 20061228;  
DE 102005029481 B4 20080410; DE 202006020806 U1 20100415; DE 502006005562 D1 20100121; ES 2341179 T3 20100616;  
JP 2007002848 A 20070111; JP 5060071 B2 20121031; US 2007098580 A1 20070503; US 2015300331 A1 20151022;  
US 9097249 B2 20150804

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DE 202006020806 U 20060606; DE 502006005562 T 20060606; ES 06011681 T 20060606; JP 2006175869 A 20060626;  
US 201514753306 A 20150629; US 47305306 A 20060623