

Title (en)

A Piston Pump Having a Force Sensor and a Method for Controlling Said Pump

Title (de)

Kolbenpumpe mit einem Kraftaufnehmer und Verfahren zur Steuerung der Pumpe

Title (fr)

Pompe à piston dotée d'un capteur de force et procédé de commande de ladite pompe

Publication

EP 2107241 A2 20091007 (EN)

Application

EP 08170712 A 20081204

Priority

DE 102008017167 A 20080402

Abstract (en)

Piston pump (1), in particular dual piston pump, for generating a delivery flow substantially free of pulsation, and method for controlling such a piston pump wherein measuring sensors (13) detecting mechanical forces or moments transmitted by the structure of the pump or its associated drive unit (8,10) are used.

IPC 8 full level

F04B 11/00 (2006.01); **F04B 1/02** (2006.01); **F04B 49/06** (2006.01)

CPC (source: EP US)

F04B 1/02 (2013.01 - EP US); **F04B 11/005** (2013.01 - EP US); **F04B 11/0058** (2013.01 - EP US); **F04B 49/065** (2013.01 - EP US)

Citation (applicant)

- US 4359312 A 19821116 - FUNKE HERBERT, et al
- US 4681513 A 19870721 - SAITO TOSHINORI [JP], et al
- US 5653876 A 19970805 - FUNKE HERBERT [DE]

Cited by

CN104508478A; AU2016229643B2; GB2481624A; ITPC20120013A1; WO2016144161A1; EP3904679A1; EP4219942A1; US11766693B2; US12005470B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 2107241 A2 20091007; **EP 2107241 A3 20100609**; CN 101865108 A 20101020; US 2010143155 A1 20100610

DOCDB simple family (application)

EP 08170712 A 20081204; CN 200911000080 A 20091204; US 63169509 A 20091204