

Title (en)
MODULATING LIQUID PUMP

Title (de)
MODULIERENDE FLÜSSIGKEITSPUMPE

Title (fr)
POMPE MODULANTE A LIQUIDE

Publication
EP 2179180 A2 20100428 (FR)

Application
EP 08836584 A 20080724

Priority
• FR 2008001107 W 20080724
• FR 0705462 A 20070726

Abstract (en)
[origin: FR2919356A1] The pump (2) has inlet and outlet ports (4, 6) for respectively receiving and distributing liquid e.g. fuel oil. An electromagnetic pump (12) is placed between the ports and comprising a piston (18) for pumping the liquid. An additional pump (28) e.g. gear-type pump, regulates the movement of the piston based on a set point electrical signal. The set point signal is derived from of alternative voltage signal.

IPC 8 full level
F04B 49/12 (2006.01); **F04B 17/04** (2006.01)

CPC (source: EP US)
F04B 17/042 (2013.01 - EP US); **F04B 23/08** (2013.01 - EP US); **F04B 49/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2009044016A2

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)
FR 2919356 A1 20090130; FR 2919356 B1 20091030; CA 2694607 A1 20090409; EP 2179180 A2 20100428; EP 2179180 B1 20181107; US 2012288381 A1 20121115; WO 2009044016 A2 20090409; WO 2009044016 A3 20090611

DOCDB simple family (application)
FR 0705462 A 20070726; CA 2694607 A 20080724; EP 08836584 A 20080724; FR 2008001107 W 20080724; US 201113104934 A 20110510