

Title (en)
Pump controller

Title (de)
Pumpensteuerung

Title (fr)
Contrôleur de pompe

Publication
EP 2246569 B1 20230628 (EN)

Application
EP 10160593 A 20100421

Priority
US 17125409 P 20090421

Abstract (en)
[origin: EP2246569A2] The present invention provides a technique using current sensing to control the pressure at constant level without the direct sensing of the pressure. This technique will help to reduce dependency solely on switch or sensor and their non linearity and other associated problems such as the non-repetitive behavior, being affected by EMI etc. The technique includes using a pump controller featuring one or more modules configured to respond to one or more input signals containing information about current provided from a pump; and configured to provide one or more output signals containing information to control the pump to operate at a substantially constant pressure without the direct sensing of pump pressure. The one or more modules control the operation of the pump based at least partly on a table of characteristics related to voltage and current that is calibrated for each pump.

IPC 8 full level
F04B 35/04 (2006.01); **F04B 49/06** (2006.01)

CPC (source: EP)
F04B 35/04 (2013.01); **F04B 49/065** (2013.01); **F04B 2203/0201** (2013.01); **F04B 2203/0202** (2013.01); **F04B 2203/0401** (2013.01); **F04B 2203/0402** (2013.01); **F04B 2205/04** (2013.01); **F04B 2205/05** (2013.01)

Cited by
US2011255992A1; US8425200B2; EP2615306A4; US10024325B2; US9745974B2; EP3339650A1; WO2018114667A1; WO2018051192A3; WO2013086317A1; US9823627B2; US9829868B2; US10429802B2; US10466660B2; US10948882B2; US11009838B2; US11531309B2; US11550271B2; US11740594B2; US11740595B2; US11953864B2; US11960252B2

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2246569 A2 20101103; EP 2246569 A3 20110622; EP 2246569 B1 20230628; AU 2010201599 A1 20101104; AU 2010201599 B2 20140605; BR PI1002730 A2 20120403; CN 101871447 A 20101027; CN 101871447 B 20151216; JP 2010255634 A 20101111; JP 5479995 B2 20140423; MX 2010004368 A 20101020

DOCDB simple family (application)
EP 10160593 A 20100421; AU 2010201599 A 20100421; BR PI1002730 A 20100422; CN 201010209799 A 20100421; JP 2010098216 A 20100421; MX 2010004368 A 20100421