

Title (en)
Fluid pump

Title (de)
Flüssigkeitspumpe

Title (fr)
Pompe à fluides

Publication
EP 1818538 B1 20090422 (EN)

Application
EP 07250389 A 20070130

Priority
US 35086006 A 20060210

Abstract (en)
[origin: EP1818538A2] A fluid pump (10) comprises a chamber (230) and a plunger (410) extending into the chamber (230) and supported for sliding movement on a suction stroke to introduce fluid into the chamber (230) and on a discharge stroke to force fluid out of the chamber (230). A driver (300) slides the plunger (410) in opposite directions. A seal ring (700) is provided between the chamber (230) and the plunger (410) and yet permits the plunger's sliding movement. The seal ring (700) has an outer annular portion (710) of a generally flat cross-section (711) clamped fast in a wall of the chamber (230) and an inner annular portion (720) of a bulbous cross-section (721) in sliding sealing engagement with the plunger (410).

IPC 8 full level
F04B 17/04 (2006.01); **F04B 53/02** (2006.01); **F04B 53/14** (2006.01)

CPC (source: EP US)
F04B 17/046 (2013.01 - EP US); **F04B 53/02** (2013.01 - EP US)

Cited by
ITMI20082174A1; EP2873857A1; DE102018129172B4; DE202011050598U1; DE202011050599U1; WO2013004620A1; EP4015823A1; EP3417172B1

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 1818538 A2 20070815; EP 1818538 A3 20080806; EP 1818538 B1 20090422; AT E429581 T1 20090515; CN 101029635 A 20070905; CN 101029635 B 20100526; DE 602007000925 D1 20090604; HK 1107838 A1 20080418; US 2007248475 A1 20071025

DOCDB simple family (application)
EP 07250389 A 20070130; AT 07250389 T 20070130; CN 200710006300 A 20070207; DE 602007000925 T 20070130; HK 08101417 A 20080205; US 35086006 A 20060210