

Title (en)

Cell pump with adjustable displacement with pivotable cam ring

Title (de)

Mengenregelbare Zellenpumpe mit schwenkbarem Steuerschieber

Title (fr)

Pompe à palettes à débit variable dotée d'un anneau de commande pivotant

Publication

**EP 2206924 A3 20131127 (DE)**

Application

**EP 10150350 A 20100108**

Priority

DE 102009004456 A 20090113

Abstract (en)

[origin: EP2206924A2] The quantity-adjustable vane pump has a tilted valve spool (1), a drive shaft (3) supported in a pump housing (2), and an interior rotor (4) arranged on the drive shaft. A bearing element is provided, which acts around a bearing sleeve (16) with a flow opening (17), where the flow opening of the bearing sleeve is reciprocally arranged in the pump housing covers or in the pump housing.

IPC 8 full level

**F04C 14/22** (2006.01); **F01C 21/10** (2006.01); **F04C 2/332** (2006.01); **F04C 2/344** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)

**F01C 21/108** (2013.01 - EP US); **F04C 2/332** (2013.01 - EP US); **F04C 2/344** (2013.01 - EP US); **F04C 14/226** (2013.01 - EP US); **F04C 15/0034** (2013.01 - EP US); **F04C 2240/30** (2013.01 - EP US)

Citation (search report)

- [AD] DE 102006061326 A1 20080703 - BEEZ GUENTHER [DE], et al
- [A] DE 3446603 A1 19850711 - ATOS OLEODINAMICA SPA [IT]
- [A] GB 574359 A 19460102 - JOHN HENRY COLBERT
- [A] GB 725300 A 19550302 - MAX GRASSINGER

Cited by

FR3002007A1; CN110242565A; WO2012113488A1

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

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2206924 A2 20100714**; **EP 2206924 A3 20131127**; **EP 2206924 B1 20140910**; DE 102009004456 A1 20100909; DE 102009004456 B4 20120119; JP 2010164056 A 20100729; JP 5581061 B2 20140827; KR 101668484 B1 20161028; KR 20100083735 A 20100722; US 2010266434 A1 20101021; US 8439650 B2 20130514

DOCDB simple family (application)

**EP 10150350 A 20100108**; DE 102009004456 A 20090113; JP 2010003842 A 20100112; KR 20100003054 A 20100113; US 68589610 A 20100112