

Title (en)
VANE PUMP WITH MULTIPLE CONTROL CHAMBERS

Title (de)
FLÜGELZELLENPUMPE MIT MEHREREN KONTROLLKAMMERN

Title (fr)
POMPE À PALETTES AYANT DE MULTIPLES CHAMBRES DE COMMANDE

Publication
EP 2971779 A1 20160120 (EN)

Application
EP 14763782 A 20140306

Priority
• US 201313800227 A 20130313
• IB 2014059506 W 20140306

Abstract (en)
[origin: WO2014141013A1] A variable capacity vane pump includes a first control chamber between a pump casing and a first portion of a pump control ring. The first portion of the control ring circumferentially extends on either side of a pivot pin. A second control chamber is provided between the pump casing and a second portion of the pump control ring. The first and second control chambers are operable to receive pressurized fluid to create a force to move the pump control ring to reduce the volumetric capacity of the pump. A return spring biases the pump ring toward a position of maximum volumetric capacity.

IPC 8 full level
F04C 14/22 (2006.01); **F04C 2/344** (2006.01)

CPC (source: EP)
F04C 2/344 (2013.01); **F04C 14/226** (2013.01); **F04C 15/0034** (2013.01)

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014141013 A1 20140918; CA 2902472 A1 20140918; CA 2902472 C 20181002; CA 3014939 A1 20140918; CA 3014939 C 20200714; CN 105074217 A 20151118; CN 105074217 B 20170315; EP 2971779 A1 20160120; EP 2971779 A4 20161207; EP 2971779 B1 20200805; JP 2016510102 A 20160404; JP 6130525 B2 20170517; KR 101789899 B1 20171025; KR 20150128866 A 20151118; MX 2015012591 A 20160120; MX 365215 B 20190527

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