

Title (en)
VARIABLE-DELIVERY VANE PUMP

Title (de)
FLÜGELZELLENPUMPE MIT VERÄNDERLICHER FÖRDERMENGE

Title (fr)
POMPE A PALETTES A CYLINDREE VARIABLE

Publication
EP 1436509 A1 20040714 (FR)

Application
EP 02777077 A 20020912

Priority
• EP 0210237 W 20020912
• FR 0111825 A 20010912

Abstract (en)
[origin: FR2829535A1] The pump comprises a body (1) having a cylindrical cavity (2) in which a movable ring (3) displaces radially and inside which is a hub (4), able to rotate around a fixed axis, provided with blades (5) which during rotation are supported against the internal surface of the ring. The ring can be displaced between a position centered on the rotational axis and an end position eccentric to the hub rotational axis. The ring displacement means comprise a hollowed out part (10) in the cylindrical wall of the body cavity and a projection (9) on the ring external face which slides in the hollowed out part to form a chamber in which a pressure is applied dependent upon the pressure existing in the pump pressure zone.

IPC 1-7
F04C 15/04; **F04C 2/344**

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

CPC (source: EP KR US)
F04C 2/344 (2013.01 - KR); **F04C 2/3441** (2013.01 - EP US); **F04C 14/223** (2013.01 - EP US)

Citation (search report)
See references of WO 03023228A1

Cited by
DE102014201572A1; DE102014201575A1; WO2015113691A1

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
FR 2829535 A1 20030314; **FR 2829535 B1 20050812**; DE 60230053 D1 20090108; EP 1436509 A1 20040714; EP 1436509 B1 20081126; ES 2318048 T3 20090501; JP 2005502815 A 20050127; KR 20040029171 A 20040403; US 2004247463 A1 20041209; US 7344361 B2 20080318; WO 03023228 A1 20030320

DOCDB simple family (application)
FR 0111825 A 20010912; DE 60230053 T 20020912; EP 0210237 W 20020912; EP 02777077 A 20020912; ES 02777077 T 20020912; JP 2003527269 A 20020912; KR 20047003607 A 20020912; US 48945204 A 20040311