

Title (en)

VANE PUMP WITH PRESSURISABLE UNDER WING AREA

Title (de)

FLÜGELZELLENPUMPE MIT DRUCKBEAUFSCHLAGBAREM UNTERFLÜGELBEREICH

Title (fr)

POMPE À PALETTES COMPRENANT UNE ZONE D'AILE INFÉRIEURE PRESSURISABLE

Publication

EP 3263835 B1 20200311 (DE)

Application

EP 17177916 A 20170626

Priority

DE 102016211913 A 20160630

Abstract (en)

[origin: US2018003176A1] A vane cell pump, includes a rotatable rotor having vanes which can be moved back and forth; an end plate with a pressure passage for discharging pressure fluid and a supply passage for supplying a sub-vane region with pressure fluid; a flow channelling device on an end face of the end plate facing axially away from the rotor; a first outlet region for discharging a first partial flow of the pressure fluid; a second outlet region for discharging a second partial flow of the pressure fluid; a first flow path along which the first partial flow flows through the first outlet region; a second flow path connecting the pressure passage to the supply passage, diverges from the first flow path and is delineated by the flow channelling device; and a third flow path connecting the supply passage to the second outlet region and delineated by the flow channelling device.

IPC 8 full level

F01C 21/08 (2006.01); **F01C 21/10** (2006.01); **F04C 2/344** (2006.01)

CPC (source: EP US)

F01C 21/0863 (2013.01 - EP US); **F01C 21/108** (2013.01 - EP US); **F04C 2/3446** (2013.01 - EP US); **F04C 15/06** (2013.01 - US); **F04C 2210/206** (2013.01 - EP US)

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 3263835 A1 20180103; **EP 3263835 B1 20200311**; CN 107559187 A 20180109; CN 107559187 B 20191112; DE 102016211913 A1 20180118; US 10633972 B2 20200428; US 2018003176 A1 20180104

DOCDB simple family (application)

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