

Title (en)
Vane pump

Title (de)
Drehschieberpumpe

Title (fr)
Pompe à palettes

Publication
EP 2441915 A3 20170726 (EN)

Application
EP 11008326 A 20111014

Priority
NO 20101436 A 20101015

Abstract (en)
[origin: EP2441915A2] Pump with a rotor (10) comprising one or more vanes (12a, 12b, ...), wherein each vane (12a, 12b, ...) is arranged to run each in a corresponding diametrical slot (141, 142 ...) in the rotor (10), each vane (12a, 12b, ...) extends from an end edge (17a1, 17b1, ...) to the opposite end edge (17a2, 17b2 ...) substantially across the entire inner diameter (\emptyset) of the rotor housing, between two opposite sides of the inner wall surface (2) for all rotation angles of the rotor (10), and wherein the cross-section of the cylindrical rotor housing (1) is non circular with a radius (R) from the center of the rotor (10) to the inner wall surface (2), increasing from a base radius (R 0) with a given rate (DeltaR) per arclength counted from a top point (T) to 180 degrees-from the top point (T), and decreases with an equivalent rate continuously for the increasing arclength further to the top point (T).

IPC 8 full level
F01C 21/08 (2006.01); **F01C 21/10** (2006.01); **F04C 2/344** (2006.01)

CPC (source: EP)
F01C 21/0836 (2013.01); **F01C 21/106** (2013.01); **F04C 2/3442** (2013.01); **F04C 2250/301** (2013.01)

Citation (search report)

- [XYI] FR 1383047 A 19641224
- [X] BE 434452 A
- [X] US 1442198 A 19230116 - HERBERT UTLEY WILLIE, et al
- [X] FR 2271420 A1 19751212 - REYNAUD DENIS [MX]
- [Y] US 5044910 A 19910903 - SAKAMAKI HIROSHI [JP], et al
- [A] JP S5838394 A 19830305 - TOYODA AUTOMATIC LOOM WORKS
- [A] US 2495771 A 19500131 - ELLA RICHER

Cited by
EP3514324A1; US10907718B2

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2441915 A2 20120418; EP 2441915 A3 20170726; EP 2441915 B1 20190612; DK 2441915 T3 20190923; ES 2745454 T3 20200302;
HU E045871 T2 20200128; NO 20101436 A1 20120416; NO 332797 B1 20130114; PL 2441915 T3 20200331

DOCDB simple family (application)
EP 11008326 A 20111014; DK 11008326 T 20111014; ES 11008326 T 20111014; HU E11008326 A 20111014; NO 20101436 A 20101015;
PL 11008326 T 20111014