

Title (en)
Vane pump

Title (de)
Drehschieberpumpe

Title (fr)
Pompe à palettes

Publication
EP 2441915 B1 20190612 (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
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CPC (source: EP)
F01C 21/0836 (2013.01); **F01C 21/106** (2013.01); **F04C 2/3442** (2013.01); **F04C 2250/301** (2013.01)

Cited by
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