

Title (en)
Vane pump

Title (de)
Flügelzellenpumpe

Title (fr)
Pompe à palettes

Publication
EP 0816680 B1 20030312 (DE)

Application
EP 97110211 A 19970623

Priority
DE 19626211 A 19960629

Abstract (en)
[origin: EP0816680A2] The pump has a rotor (5) with radial slits (9) for holding the blades (11). A contour ring (15) enclosing the blades and forming a suction, precompression and pressure areas is designed so that the kinematic precompression is strong in a conveyor cell. The suction intake opening (21) has a widened area (33) running in the rotary direction and reducing a steep pressure rise in the precompression area (125). The widened area of the opening can be formed as a notch whose tip points in the rotary direction. The widened area extends maximum so that a separation between the intake opening and conveyor opening (29) is ensured through a conveyor cell (17).

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

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

CPC (source: EP US)
F01C 21/106 (2013.01 - EP US); **F04C 2/3446** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19626211 A1 19980102; **DE 19626211 C2 20020314**; DE 59709468 D1 20030417; EP 0816680 A2 19980107; EP 0816680 A3 19980826; EP 0816680 B1 20030312; JP 4072219 B2 20080409; JP H1061566 A 19980303; US 5975868 A 19991102

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DE 19626211 A 19960629; DE 59709468 T 19970623; EP 97110211 A 19970623; JP 17241697 A 19970627; US 88560097 A 19970630