

Title (en)
VANE TYPE VACUUM PUMP

Title (de)
FLÜGELZELLENVAKUUMPUMPE

Title (fr)
POMPE A VIDE A PALETTE

Publication
EP 1553301 B1 20080903 (EN)

Application
EP 02808018 A 20021015

Priority
JP 0210661 W 20021015

Abstract (en)
[origin: EP1553301A1] A vane-type vacuum pump including a rotor that rotates with vanes in a sliding contact with a housing comprises a labyrinth seal disposed between the housing and the rotor and extending over an entire circumference and including at least one pair of a circular ring-shaped groove and a circular ridge-shaped projection ring concentrically disposed to the rotary shaft. The groove and the projection ring are continuous on the casing side but they are discontinuous on the rotor side so that a radial movement of the vane is not impeded. <IMAGE>

IPC 8 full level
F04C 18/344 (2006.01); **F01C 21/08** (2006.01); **F01C 21/10** (2006.01); **F04C 25/02** (2006.01); **F04C 27/00** (2006.01)

CPC (source: EP KR)
F01C 21/0809 (2013.01 - EP); **F01C 21/104** (2013.01 - EP); **F04C 18/344** (2013.01 - KR); **F04C 18/3442** (2013.01 - EP); **F04C 25/02** (2013.01 - KR); **F04C 27/005** (2013.01 - EP); **F04C 2220/10** (2013.01 - EP)

Cited by
EP1925778A1; DE102018105144A1; US11035363B2; US7628594B2; WO2009090079A3

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
EP 1553301 A1 20050713; **EP 1553301 A4 20061011**; **EP 1553301 B1 20080903**; CN 100370141 C 20080220; CN 1623038 A 20050601; DE 60228765 D1 20081016; JP 4014109 B2 20071128; JP WO2004036046 A1 20060216; KR 100607321 B1 20060731; KR 20040094737 A 20041110; WO 2004036046 A1 20040429

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