

Title (en)
SINGLE-WINGED VACUUM PUMP

Title (de)
EINFLÜGELVAKUUMPUMPE

Title (fr)
POMPE A VIDE A UNE AILETTE

Publication
EP 1766237 A1 20070328 (DE)

Application
EP 05731506 A 20050426

Priority
• EP 2005004210 W 20050426
• DE 102004034921 A 20040709

Abstract (en)
[origin: WO2006005381A1] The invention relates to a single-winged vacuum pump provided with a pot-shaped housing (12), a rotor (18) which is rotationally and eccentrically mounted in the housing, a wing (20) which is displaceably mounted in the rotor and orthogonal on the rotational axis and a work chamber (22) which receives the wing (20) and which comprises an internal peripheral surface (30) whereon both of the sealing edges (68), which are arranged opposite to each other of the wing, are arranged. The wing (20) subdivides the work chamber into a suction chamber (30) and a pressure chamber and the end (28) of the wing, which is oriented towards the internal peripheral surface (30), comprises a flattened section (66) on the side oriented towards the pressure chamber (26).

IPC 8 full level
F04C 18/344 (2006.01); **F01C 21/08** (2006.01)

CPC (source: EP KR)
F01C 21/0809 (2013.01 - EP); **F01C 21/0881** (2013.01 - EP); **F04C 18/344** (2013.01 - KR); **F04C 18/3441** (2013.01 - EP); **F04C 2220/10** (2013.01 - EP)

Citation (search report)
See references of WO 2006005381A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
DE 102004034921 B3 20051229; **DE 102004034921 B9 20060427**; CA 2575778 A1 20060119; CA 2575778 C 20121120; CN 100465448 C 20090304; CN 101002023 A 20070718; DE 102004064029 A1 20070412; DE 102004064029 B4 20080410; DE 502005002932 D1 20080403; EP 1766237 A1 20070328; EP 1766237 B1 20080220; KR 101234491 B1 20130218; KR 20070034091 A 20070327; WO 2006005381 A1 20060119

DOCDB simple family (application)
DE 102004034921 A 20040709; CA 2575778 A 20050426; CN 200580027153 A 20050426; DE 102004064029 A 20040709; DE 502005002932 T 20050426; EP 05731506 A 20050426; EP 2005004210 W 20050426; KR 20077003040 A 20050426