

Title (en)
Rotary sliding-vane air compressor

Title (de)
Flügelzellenverdichter

Title (fr)
Compresseur à palettes

Publication
EP 1167769 A3 20030102 (EN)

Application
EP 01112998 A 20010611

Priority
IT MI20001431 A 20000626

Abstract (en)
[origin: EP1167769A2] 1. A rotary sliding-vane compressor comprising: a longitudinally extended cylindrical stator (3) having an internal cylindrical surface defining a compression chamber (7); a longitudinally extended cylindrical rotor (9) eccentrically inserted in said stator (3), said rotor (9) having a series of radial grooves (11) which extend longitudinally to the rotor (9); and a series of longitudinally extended radial vanes (13), each vane (13) having an apex and a base of the vane (13) and being radially slidable in one corresponding groove (11) of the rotor (9) between a radially retracted position and a radially extended position; at the radially extended position each vane (13) coming into contact with the internal cylindrical surface of the stator (3) along a longitudinal contact generatrix (23) separating two compression zones (19m, 19v) of said compression chamber (7) with different pressure, the compression zone (19m) with lower pressure being in fluid communication with a space (27) between the base (25) of the vane (13) and the groove (11) wherein the vane (13) slides; characterised in that the apex of each vane (13) provides a nose (30) projecting into the compression zone with higher pressure (19v). <IMAGE>

IPC 1-7
F04C 18/344

IPC 8 full level
F01C 21/08 (2006.01)

CPC (source: EP)
F01C 21/0809 (2013.01)

Citation (search report)

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Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1167769 A2 20020102; EP 1167769 A3 20030102; IT 1317996 B1 20030721; IT MI20001431 A0 20000626; IT MI20001431 A1 20011226

DOCDB simple family (application)
EP 01112998 A 20010611; IT MI20001431 A 20000626