

Title (en)
Volumetric fluid machine

Title (de)
Verdrängungsmaschine

Title (fr)
Machine volumétrique pour fluides

Publication
EP 1811128 A1 20070725 (EN)

Application
EP 07100546 A 20070115

Priority
IT MO20060015 A 20060118

Abstract (en)
A volumetric fluid machine includes a stator (2) in which are placed, with rotatory motion, a first rotor (6) and a second rotor (7), mutually associated and with conjugated external profiles (10, 11). The first rotor (6) has a profile (10) presenting at least a lobed part (10a), associated to an inner surface (4) of the stator (2), which defines, together with the inner surface (4) of the stator (2) and with the profile (11) of the second rotor (7), at least a chamber (12) with cyclically variable volume from a maximum value to a minimum value when the first rotor (6) rotates around a corresponding axis (X), in order to exchange energy with a moving fluid. Moreover the lobed part (10a) delimits, together with the inner surface (4) of the stator (2), a first gap (14) capable to guarantee fluid tightness.

IPC 8 full level
F01C 1/08 (2006.01); **F01C 1/28** (2006.01); **F01C 1/20** (2006.01)

CPC (source: EP)
F01C 1/084 (2013.01); **F01C 1/28** (2013.01); **F01C 1/20** (2013.01); **F04C 2220/10** (2013.01)

Citation (search report)

- [XY] FR 2690201 A1 19931022 - PY MARC [FR]
- [XA] WO 9804809 A1 19980205 - MORSELLI GIOVANNI [IT]
- [XY] US 2004182357 A1 20040923 - MAKLER DAN [IL]
- [XA] GB 1135034 A 19681127 - DAVID HERBERT BLOWER
- [X] FR 735814 A 19321116 - FRIED KRUPP GERMANIIAWERFT AG
- [X] DE 4235559 A1 19940428 - BOECK A [DE]
- [XA] DE 9209641 U1 19921119

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1811128 A1 20070725; IT MO20060015 A1 20070719

DOCDB simple family (application)
EP 07100546 A 20070115; IT MO20060015 A 20060118