

Title (en)
GAEDE-TYPE VACUUM PUMP

Publication
EP 0378163 A3 19901010 (FR)

Application
EP 90100362 A 19900109

Priority
FR 8900152 A 19890109

Abstract (en)
[origin: EP0378163A2] Pump comprising a stator (1) and a rotor (2) rotationally driven inside the stator, the stator comprising an intake inlet (12) and a delivery outlet (13), characterised in that the rotor, in its working part located between the intake and the delivery, is of semi-spherical shape (9) and is arranged inside a similarly semi-spherical cavity (10) of the rotor, the axis DELTA of the said rotor merging with the axis of the semi-spherical cavity of the stator, the intake occurring on the side of the great circle of the semi-spherical rotor through the radial play (ja) between the rotor and the stator and the delivery on the side of the top of the semi-spherical rotor, an adjusting shim (14) positioning the rotor (2) axially in relation to the stator (1) in such a way that the radial play on the delivery jr is less than the radial play on the intake ja. <IMAGE>

IPC 1-7
F04D 19/04

IPC 8 full level
F04D 19/04 (2006.01)

CPC (source: EP US)
F04D 19/04 (2013.01 - EP US)

Citation (search report)
• [A] DE 912007 C 19540524 - ZEISS CARL FA
• [A] FR 1293546 A 19620518 - ALSACIENNE CONSTR MECA
• [A] US 1810083 A 19310616 - HARALD NORINDER ERNST
• [A] GB 242084 A 19251105 - RADIONS LTD, et al
• PATENT ABSTRACTS OF JAPAN, Vol. 12, No. 419 (M-760)(3266), 8 novembre 1988; & JP,A,63 154 891 (OSAKA SHINKU KIKI SEISAKUSHO K.K.) 28-06-1988, en entier.

Cited by
EP0675289A1; DE10056144A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL

DOCDB simple family (publication)
EP 0378163 A2 19900718; EP 0378163 A3 19901010; EP 0378163 B1 19930915; AT E94620 T1 19931015; DE 69003256 D1 19931021; DE 69003256 T2 19940113; ES 2045570 T3 19940116; FR 2641582 A1 19900713; FR 2641582 B1 19910322; JP H02227598 A 19900910; US 5011368 A 19910430

DOCDB simple family (application)
EP 90100362 A 19900109; AT 90100362 T 19900109; DE 69003256 T 19900109; ES 90100362 T 19900109; FR 8900152 A 19890109; JP 241690 A 19900109; US 46189590 A 19900108