

Title (en)  
Gerotor pumps.

Title (de)  
Gerotorpumpen.

Title (fr)  
Pompes du type gerotor.

Publication  
**EP 0457491 A1 19911121 (EN)**

Application  
**EP 91304154 A 19910508**

Priority  
GB 9010686 A 19900512

Abstract (en)  
A gerotor pump, Figure 1, has the usual male lobed rotor 16 with n lobes meshed in the female lobed annulus 12 with n + 1 lobes, the two being both but relatively rotatable on parallel axes 14,18. The improvement consists of making the lobes helically extending which smooths pressure peaks and reduces noise. <IMAGE>

IPC 1-7  
**F04C 2/107**

IPC 8 full level  
**F04C 2/08** (2006.01); **F04C 2/10** (2006.01); **F04C 2/107** (2006.01); **F04C 14/00** (2006.01); **F04C 28/20** (2006.01); **F04C 29/00** (2006.01); **F04C 29/06** (2006.01)

CPC (source: EP)  
**F04C 2/084** (2013.01); **F04C 2/102** (2013.01)

Citation (search report)  
• [Y] EP 0301158 A2 19890201 - ATSUGI MOTOR PARTS CO LTD [JP]  
• [Y] GB 2022708 A 19791219 - BECK A J  
• [A] US 2830542 A 19580415 - ERICKSON WILLIAM F, et al  
• [A] GB 2037372 A 19800709 - OS BAD ROZWOJOWY MECH  
• [A] US 2397139 A 19460326 - HEATON HERMAN C  
• [A] PATENT ABSTRACTS OF JAPAN vol. 4, no. 88 (M-17)(570) 24 June 1980, & JP-A-53 120843 (ANRETSUKTO K.K.) 31 March 1980,

Cited by  
DE10040965A1; EP1182349A3; EP1382852A3; US7118359B2

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

DOCDB simple family (publication)  
**EP 0457491 A1 19911121; EP 0457491 B1 19940713**; AT E108519 T1 19940715; DE 69102818 D1 19940818; DE 69102818 T2 19941124; DK 0457491 T3 19941031; ES 2060302 T3 19941116; FI 103603 B1 19990730; FI 103603 B 19990730; FI 912283 A0 19910510; FI 912283 A 19911113; GB 2243875 A 19911113; GB 2243875 B 19940105; GB 9010686 D0 19900704; GB 9109937 D0 19910703; JP H07151068 A 19950613; NO 176452 B 19941227; NO 176452 C 19950405; NO 911816 D0 19910510; NO 911816 L 19911113

DOCDB simple family (application)  
**EP 91304154 A 19910508**; AT 91304154 T 19910508; DE 69102818 T 19910508; DK 91304154 T 19910508; ES 91304154 T 19910508; FI 912283 A 19910510; GB 9010686 A 19900512; GB 9109937 A 19910508; JP 22822791 A 19910513; NO 911816 A 19910510