

Title (en)
Gerotor Pump

Title (de)
Gerotorpumpe

Title (fr)
Pompe de type g rator

Publication
EP 2042735 A3 20140827 (EN)

Application
EP 08163285 A 20080829

Priority
GB 0718903 A 20070927

Abstract (en)
[origin: EP2042735A2] A gerotor pump (56) comprises a rotor chamber having a longitudinally extending central axis, an outer rotor (70) rotatable in the rotor chamber with a radial clearance (78) between an outer periphery (80) of the outer rotor and the rotor chamber, an inner rotor (66) rotatable in the outer rotor and cooperably engageable therewith to define a plurality of pumping chambers (96) having respective volumes that vary when, in use, the inner rotor rotates relative to the outer rotor. The inner rotor (66) is rotatable about an axis of rotation spaced from the central axis and contained in a first plane that contains the central axis and the rotor chamber is configured such that the radial clearance (78) in at least one direction in the first plane is greater than at least one radial clearance (78) in a second plane that extends perpendicular to the first plane and contains the central axis.

IPC 8 full level
F04C 2/10 (2006.01)

CPC (source: EP US)
F04C 2/10 (2013.01 - EP US); **F04C 2230/602** (2013.01 - EP US)

Citation (search report)
• [I] JP 2006299846 A 20061102 - HITACHI LTD
• [XP] EP 1921315 A1 20080514 - AISIN SEIKI [JP]

Cited by
CN103452837A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

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EP 2042735 A2 20090401; EP 2042735 A3 20140827; GB 0718903 D0 20071107; JP 2009085213 A 20090423; US 2009087333 A1 20090402

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EP 08163285 A 20080829; GB 0718903 A 20070927; JP 2008226601 A 20080904; US 28321408 A 20080910