

Title (en)
Internal gear pump.

Title (de)
Innenzahnradpumpe.

Title (fr)
Pompe à engrenage internes.

Publication
EP 0664395 A1 19950726 (EN)

Application
EP 95300338 A 19950119

Priority
GB 9400989 A 19940119

Abstract (en)
A gerotor pump has an inner rotor (10) with lobes (15) on its outer periphery and an outer rotor (13) with lobes (16) on its inner periphery. The outer rotor (13) is arranged to rotate about an axis which is excentric relative to the axis of rotation of the inner rotor (10) whereby the lobes (15,16) define a series of pumping chambers. The pump further includes an inlet port (21) and an outlet port (22) with sealing lands (23,24) forming seals therebetween. One of the sealing lands (24) includes a groove (26) which extends generally circumferentially across the land from the outlet port (22) but terminates distant from the inlet port (21). The groove (26) acts to enable a gradual equalization of pressures in the outlet port and pumping chambers during operation thereby reducing noise and vibration. <IMAGE>

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F04C 15/02

IPC 8 full level
F04C 15/00 (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP)
F04C 15/0049 (2013.01); **F04C 15/06** (2013.01)

Citation (search report)
• [X] US 4767296 A 19880830 - SATOMOTO ATSUSHI [JP], et al
• [X] CH 493740 A 19700715 - DANFOSS AS [DK]
• [A] GB 894669 A 19620426 - HOBOURN EATON MFG CO LTD

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GB2324573A; GB2324573B; DE19626153A1; US5711660A; DE19626153C2; DE102013226852A1

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