

Title (en)
GEROTOR TYPE MACHINE

Title (de)
GEROTOR-MASCHINE

Title (fr)
MACHINE A ROTOR DENTE

Publication
EP 1503034 A4 20080319 (EN)

Application
EP 03725936 A 20030422

Priority
• RU 0300196 W 20030422
• RU 2002112374 A 20020424

Abstract (en)
[origin: EP1503034A1] The invention relates to hydro and pneumatic engineering and can be used as a pump, a compressor or a motor. <??>The inventive gerotor type machine for displacing liquids and gases along the longitudinal axis thereof comprises a stator, a screw rotor and a shell. The rotor is arranged in the shell in such a way that working chambers are formed between the mating surfaces thereof. <??>The shell is disposed inside the stator in such a way that it is rotatable and that working chambers are formed between the mating surfaces thereof. The passage area between the rotor and shell and between the shell and stator is embodied in such a way that it is variable along the longitudinal axis of the machine. Said rotor and shell are embodied in such a way that they are displaceable by an axial force for tightening the rotor, shell and stator to each other, thereby automatically taking up clearances when they are formed. <??>The inventive gerotor type machine makes it possible to automatically compensate the clearances formed between the rotor and shell, and between the shell and stator. <IMAGE>

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F01C 1/07

IPC 8 full level
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CPC (source: EP)
F01C 21/102 (2013.01); **F04C 2/107** (2013.01); **F04C 2250/201** (2013.01)

Citation (search report)
• [X] US 2085115 A 19370629 - LOUIS MOINEAU RENE JOSEPH
• [A] GB 1215569 A 19701209 - PAUL GERHARD LANGER [DE]
• [A] DE 2240423 A1 19740307 - HERMETIC PUMPEN GMBH
• See references of WO 03091543A1

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