

Title (en)
GEROTOR TYPE MACHINE

Title (de)
GEROTOR-MASCHINE

Title (fr)
MACHINE A ROTOR DENTE

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EP 1503034 A1 20050202 (EN)

Application
EP 03725936 A 20030422

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Abstract (en)
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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IPC 8 full level
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Cited by
EP2532833A1; US2010260636A1; US8308459B2; US2011305589A1; US9109595B2; EP3767105A1; EP1813812A1; US8152499B2; WO2007085437A1; WO2021009275A1; WO2010100134A3

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