

Title (en)
Rotary piston machine

Title (de)
Drehkolbenmaschine

Title (fr)
Machine à piston rotatif

Publication
EP 0601218 B1 19970122 (DE)

Application
EP 92120263 A 19921127

Priority
EP 92120263 A 19921127

Abstract (en)
[origin: EP0601218A1] Displacement machine, the working chambers of which are created in that the blade plates are fitted in two nesting rotors with fixed, parallel but eccentric axes of rotation. The said plates are supported in each of the two rotors by two cylinder segments so that they can perform short alternating movements, both translatory and rotational. In the contact area of the rotors, the blade plates slide with their curvatures onto the synchronous surfaces. This permits a coupled rotation of the two rotors (same angular velocity). Due to the axial bore and the radial passages in the inner rotor, the coolant and lubricant flows back into the passages of the blade plates and the outer rotor and duly cooled into the bore of the inner rotor. Various inlet and outlet orifices, which make the machine usable as a combustion engine, as a pneumatic or hydraulic motor or pump and as a compressor can be fitted on the non-rotating side covers of the two rotors. <IMAGE>

IPC 1-7
F01C 1/336

IPC 8 full level
F01C 1/336 (2006.01)

CPC (source: EP)
F01C 1/336 (2013.01)

Cited by
EP3249156A1; WO2017036684A1; EP1138876A1; DE102005017834B4; CN111608851A; EP2884046A1; JP2015117695A; US9752573B2; US6481988B2; US7438543B2; DE102015216989A1; DE102016209021A1; WO2015197557A1

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