

Title (en)
Rotary pistons machine

Title (de)
Drehkolbenmaschine

Title (fr)
Machine à pistons rotatifs

Publication
EP 1849958 A1 20071031 (EN)

Application
EP 06008645 A 20060426

Priority
EP 06008645 A 20060426

Abstract (en)
A volumetric rotary machine for generating or transforming mechanical energy comprising four rotary bodies rotating about a respective rotation axes, said four rotary bodies having said respective axes two by two perpendicular and two by two coincident but opposite to each other, wherein each rotary body has a recess that is penetrated by the two adjacent rotary bodies with axis perpendicular to each other, the rotary bodies with axis perpendicular to each other being mirror-like and counter-rotating, the rotary bodies with axes coincident and opposite being alike and counter-rotating, said recess penetrated by said rotary bodies creating at least four variable volume chambers, the volume of said chambers being responsive to the angular relative position between said rotary bodies, said chambers shrinking and expanding alternatively ; at least one fluid inlet and a fluid outlet present in at least one said inlet and outlet resulting in at least one position in said chambers; a stiff containing structure arranged about said four rotary bodies, adapted to support said rotary bodies allowing their relative movement.

IPC 8 full level
F01C 3/02 (2006.01); **F04C 3/04** (2006.01); **F04C 18/52** (2006.01)

CPC (source: EP)
F01C 3/025 (2013.01); **F04C 3/04** (2013.01); **F04C 18/52** (2013.01)

Citation (search report)
• [X] DE 19738132 A1 19990916 - JAITNER LUTZ [DE]
• [A] DE 2639760 A1 19780309 - NEHRING ANDREAS
• [A] JP S50107311 A 19750823
• [A] DD 87695 A

Cited by
GB2500045A; US9714573B2

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