

Title (en)

ECCENTRIC SLIDING VANE EQUILIBRIUM ROTOR DEVICE AND ITS APPLICATIONS

Title (de)

EXZENTRISCHER GLEITFLÜGELROTOR SOWIE SEINE ANWENDUNG

Title (fr)

DISPOSITIF D'EQUILIBRAGE EXCENTRIQUE DES ROTORS A AILETTES COULISSANTES ET SON UTILISATION

Publication

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Application

EP 98922579 A 19980525

Priority

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Abstract (en)

[origin: WO9853210A1] This invention relates to an eccentric equilibrium rotor device applicable for fluid positive-displacement devices such as compressors, pumps, blowers or motors, having two integrally crossed and equally weighted sliding vanes fixed in the cross-shaped sliding path in the body of the hollow rotor and perpendicular to each other. At the centers of the two slides there are projecting studs provided with coupling rings by which balancing between the inertial force of the motion of the slides is obtained. This invention also relates to a rotary engine using many kinds of fuel, which is constituted by a compressor in coaxial tandem with a gas motor. Both of the said compressor and the gas motor have an eccentric equilibrium rotor with a single sliding vane, and a combustion chamber is provided therebetween and communicates with them.

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CPC (source: EP)

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Citation (search report)

- [XY] DE 1007468 B 19570502 - RENE MARTIAL GEORGES DELAFONTA
- [X] US 1994245 A 19350312 - GETTE JR JOHN O
- [X] US 2314056 A 19430316 - ANDRE SOBEK
- [Y] DE 851879 C 19521009 - CLAUSEN JUERGEN
- [Y] US 5560741 A 19961001 - EDWARDS THOMAS C [US]
- [X] US 3989011 A 19761102 - TAKAHASHI MINORU
- [A] CH 137829 A 19300131 - ZOLLER ARNOLD [DE]
- [A] US 3858559 A 19750107 - THOMAS JR ALBERT RAYMOND
- [A] FR 710884 A 19310831
- [X] PATENT ABSTRACTS OF JAPAN vol. 009, no. 073 (M - 368) 3 April 1985 (1985-04-03)
- See references of WO 9853210A1

Cited by

KR20020081838A; DE102008058891B4; FR2944829A1; EP2088285A3; US9947423B2; US7556015B2; DE102008058891A1; US11450442B2; US9881706B2; WO2006127535A1; WO2007049226A1; WO2004022919A1; US7314035B2; EP2088285A2

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