

Title (en)

ROTOR ASSEMBLY FOR ROTARY COMPRESSOR

Title (de)

ROTORANORDNUNG FÜR KREISKOLBENVERDICHTER

Title (fr)

ENSEMBLE ROTOR POUR COMPRESSEUR ROTATIF

Publication

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Application

EP 08783246 A 20080723

Priority

- CA 2008001332 W 20080723
- US 7140208 P 20080428

Abstract (en)

[origin: WO2009132412A1] A traditional compressor unit of the sealed type suffers in that a failure of either the motor or the compressor require both to be discarded Provided is a compressor (1) having a rotor assembly (3) withm which a rotor (24) is rotated on an eccentric shaft (28) in a sealed chamber (23) Two or more intake ports (32, 33) are provided that open into the sealed chamber (23) and two or more exhaust ports (34, 35) are provided with one way valves (38), to permit compressed gas to exit the sealed chamber (23) The geometry of the rotor (24) and sealed chamber (23) and eccentric drive (28) are such that apices of the rotor (24) remain in contact with a peripheral wall (22) of the sealed chamber (23) as the rotor (24) rotates and apex seals (36) are provided on the apices of the rotor (24) to prevent leakage of the gas around the apices of the rotor (24) Pn a preferred embodiment the rotor (24) is a multi-lobed rotor orbiting withm a trochoidal chamber (23).

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2009132412A1

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