

Title (en)
ROTARY COMPRESSOR

Title (de)
ROTATIONSVERDICHTER

Title (fr)
COMPRESSEUR ROTATIF

Publication
EP 2119916 A4 20140326 (EN)

Application
EP 07737530 A 20070228

Priority
JP 2007053811 W 20070228

Abstract (en)
[origin: EP2119916A1] An annular cylinder chamber (C1, C2) of a cylinder (21) is partitioned into an outer cylinder chamber (C1) and an inner cylinder chamber (C2) with an annular piston (22). The cylinder (21) is caused to eccentrically rotate by driving an electric motor (30), thereby changing the volumes of the outer cylinder chamber (C1) and the inner cylinder chamber (C2). The volume ratio V_r of the inner cylinder chamber (C2) to the outer cylinder chamber (C1) is set at about 0.7. In this state, the output torque of the electric motor (30) is changed in accordance with a variation in the load torque in one turn of rotation.

IPC 8 full level
F04C 28/08 (2006.01); **F04C 18/04** (2006.01); **F04C 18/32** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP US)
F04C 18/045 (2013.01 - EP US); **F04C 18/3562** (2013.01 - EP US); **F04C 28/16** (2013.01 - EP US); **F04C 23/001** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US); **F04C 2270/035** (2013.01 - EP US); **F04C 2270/125** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)
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DOCDB simple family (application)
EP 07737530 A 20070228; CN 200780051742 A 20070228; JP 2007053811 W 20070228; US 52887307 A 20070228