

Title (en)
POWER CONVERSION DEVICE.

Title (de)
LEISTUNGSUMWANDLUNGSVORRICHTUNG.

Title (fr)
DIPOSITIF DE CONVERSION DE PUISSANCE.

Publication
EP 0208718 A4 19870713 (EN)

Application
EP 86900585 A 19851231

Priority
• US 68906285 A 19850107
• US 68959185 A 19850107

Abstract (en)
[origin: WO8604110A1] A power conversion device which can efficiently convert between fluid pressure and rotary motion. The device includes a piston plate (70), which is surrounded by an array of pressure chambers (76, 78, 80, 82) and engageable with a shaft (20) and its accompanying gear assembly (24). Manifold networks (30, 40) act as valves to control the sequential pressurization and depressurization of the pressure chambers so as to produce orbital movement of the piston plate about the shaft, as though it were floating on a cushion of air.

IPC 1-7
F01B 7/20; F16J 1/09; F16K 3/02

IPC 8 full level
F01B 7/20 (2006.01)

CPC (source: EP)
F01B 7/20 (2013.01)

Citation (search report)
• [Y] US 4466335 A 19840821 - MILBURN JR WILLIAM W [US]
• [Y] US 1554756 A 19250922 - PETERS ARTHUR E
• [A] GB 117846 A 19180802 - PHILLIPS EDWIN BURBIDGE, et al
• See references of WO 8604110A1

Designated contracting state (EPC)
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
WO 8604110 A1 19860717; AU 5303286 A 19860729; AU 588274 B2 19890914; CN 86100619 A 19870909; EP 0208718 A1 19870121; EP 0208718 A4 19870713

DOCDB simple family (application)
US 8502590 W 19851231; AU 5303286 A 19851231; CN 86100619 A 19860107; EP 86900585 A 19851231