

Title (en)
DUAL-PLATE SWASH PUMP

Title (de)
TAUMELSCHEIBENPUMPE MIT ZWEI SCHEIBEN

Title (fr)
POMPE À DEUX PLATEAUX OSCILLANTS

Publication
EP 2132410 A4 20120328 (EN)

Application
EP 08724014 A 20080220

Priority
• NZ 2008000024 W 20080220
• NZ 55334707 A 20070220

Abstract (en)
[origin: WO2008103058A1] A swash-plate machine for pumping fluids uses dual swash plates in complementary or mirror-image orientation. The vibration that is generated as a reaction to forced nutatory motion imposed on a single swash plate is thereby largely cancelled. Rotated orientation of the divider plate position in one chamber with respect to the other (preferably 90 degrees difference) provides four outputs per revolution instead of the two available from both sides of a single swash plate. Improved bearings for the part-spherical swash plate base permits only oscillatory movement for that part and facilitate better sealing.

IPC 8 full level
F04C 9/00 (2006.01); **F04C 11/00** (2006.01)

CPC (source: EP US)
F04C 9/005 (2013.01 - EP US); **F04C 11/001** (2013.01 - EP US)

Citation (search report)
• [ID] US 2887059 A 19590519 - CORNELIUS RICHARD T
• [A] GB 2115490 A 19830907 - SZIRMAY ZOLTAN, et al
• [A] DE 2444019 A1 19760325 - REIS FRITZ
• [A] US 2015826 A 19351001 - VINCENT EDWARD T
• See references of WO 2008103058A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008103058 A1 20080828; EP 2132410 A1 20091216; EP 2132410 A4 20120328; US 2010143173 A1 20100610

DOCDB simple family (application)
NZ 2008000024 W 20080220; EP 08724014 A 20080220; US 52791708 A 20080220