

Title (en)
Gear ring pump

Title (de)
Zahnringpumpe

Title (fr)
Machine à engrenage d'anneau

Publication
EP 2357362 A3 20161123 (DE)

Application
EP 11000603 A 20110126

Priority
DE 102010008062 A 20100216

Abstract (en)
[origin: EP2357362A2] The annular gear pump has a pump housing formed of multiple housing portions and a wheel set (3) arranged in the housing. The wheel set is driven by a drive shaft. The wheel set consists of an externally-toothed inner rotor (4) and an internally toothed outer rotor (5). The inner rotor is rotatably connected with the drive shaft. A balance piston (13) guided in a balance piston guide (12) of the pump housing in an anti-rotational manner and lying against front wall sided on outer rotor of the wheel set is arranged in the pump housing adjacent to the wheel set in axial direction.

IPC 8 full level
F04C 2/10 (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP)
F01C 19/085 (2013.01); **F01C 21/108** (2013.01); **F04C 2/102** (2013.01); **F04C 15/06** (2013.01); **F01C 21/003** (2013.01)

Citation (search report)
• [XII] DE 2532091 A1 19770203 - HOHENZOLLERN HUETTENVERWALT
• [A] DE 3402710 A1 19850808 - EISENMANN SIEGFRIED DIPL ING
• [A] EP 2143935 A1 20100113 - CONTINENTAL AUTOMOTIVE GMBH [DE]
• [A] DE 1196507 B 19650708 - BOSCH GMBH ROBERT

Cited by
CN103075338A; CN104956087A; JP2016504531A; CN110195702A; US9765779B2; US9279424B2; US8951027B2; WO2015026409A1; WO2014117889A3

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

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BA ME

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