

Title (en)
GEAR PUMP

Title (de)
ZAHNRADPUMPE

Title (fr)
POMPE À ENGRENAGES

Publication
EP 2550456 B1 20150506 (DE)

Application
EP 11709925 A 20110318

Priority
• DE 102010012653 A 20100325
• EP 2011054135 W 20110318

Abstract (en)
[origin: WO2011117154A2] A gear pump is described with a plurality of gearwheels which engage into one another in order to convey a medium and are held rotatably in a pump housing. One of the gearwheels is driven by a pump shaft which can be coupled to a drive via a coupling end. In order, in particular at greatly fluctuating operating pressures, to obtain uniform conveying streams even in the case of changing load states within one revolution of the pump shaft, a brake ring is arranged according to the invention on the circumference of the pump shaft, which brake ring acts by way of at least one braking surface on a frictional surface of the pump shaft or on a frictional surface of the pump housing.

IPC 8 full level
F04C 13/00 (2006.01); **F04C 2/14** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP KR US)
F04C 2/02 (2013.01 - KR); **F04C 2/08** (2013.01 - KR); **F04C 2/14** (2013.01 - EP KR US); **F04C 2/344** (2013.01 - KR); **F04C 11/00** (2013.01 - KR); **F04C 13/005** (2013.01 - KR); **F04C 15/0026** (2013.01 - KR); **F04C 15/0084** (2013.01 - EP KR US); **F04C 18/16** (2013.01 - KR); **F04C 28/24** (2013.01 - KR); **F04C 13/005** (2013.01 - EP US); **F04C 2210/20** (2013.01 - KR); **F04C 2240/30** (2013.01 - KR); **Y10S 415/00** (2013.01 - KR); **Y10S 417/00** (2013.01 - KR)

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

DOCDB simple family (publication)
DE 102010012653 A1 20110929; CN 103097731 A 20130508; CN 103097731 B 20160330; EP 2550456 A2 20130130; EP 2550456 B1 20150506; ES 2540097 T3 20150708; KR 101762989 B1 20170728; KR 20130009998 A 20130124; MX 2012010497 A 20121015; RU 2012145177 A 20140427; RU 2530692 C2 20141010; US 2013034463 A1 20130207; US 9416781 B2 20160816; WO 2011117154 A2 20110929; WO 2011117154 A3 20130502; ZA 201206874 B 20130828

DOCDB simple family (application)
DE 102010012653 A 20100325; CN 201180015655 A 20110318; EP 11709925 A 20110318; EP 2011054135 W 20110318; ES 11709925 T 20110318; KR 20127027972 A 20110318; MX 2012010497 A 20110318; RU 2012145177 A 20110318; US 201213626045 A 20120925; ZA 201206874 A 20120913