

Title (en)
GEAR PUMP

Title (de)
ZAHNRADPUMPE

Title (fr)
POMPE À ENGRENAGES

Publication
EP 2588756 B1 20180502 (DE)

Application
EP 11726764 A 20110617

Priority
• DE 102010025865 A 20100702
• EP 2011060133 W 20110617

Abstract (en)
[origin: WO2012000812A2] A gear pump is described with a plurality of gear wheels which intermesh in order to deliver a pumping medium, are held rotatably in a pump case and deliver a pumping medium from a priming zone into a delivery pressure zone of the pump case. One of the gear wheels is driven by a pump shaft which protrudes with a coupling end out of the pump case. In order to seal the pump case, a shaft sealing ring is held around the circumference of the pump shaft, wherein, in order to avoid material deposits, the shaft sealing ring is assigned, according to the invention, an interior flushing chamber on the circumference of the pump shaft, the flushing chamber being connected to the delivery pressure zone of the pump case by a feed channel in the pump case.

IPC 8 full level
F04C 2/14 (2006.01)

CPC (source: EP US)
F04C 2/086 (2013.01 - EP US); **F04C 13/001** (2013.01 - EP US); **F04C 13/005** (2013.01 - EP US); **F04C 15/0038** (2013.01 - EP US); **F04C 2/14** (2013.01 - EP US)

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)
WO 2012000812 A2 20120105; WO 2012000812 A3 20130425; CN 102959245 A 20130306; CN 102959245 B 20160106; EP 2588756 A2 20130508; EP 2588756 B1 20180502; US 2013094988 A1 20130418

DOCDB simple family (application)
EP 2011060133 W 20110617; CN 201180031637 A 20110617; EP 11726764 A 20110617; US 201213705564 A 20121205