

Title (en)
INTERNAL GEAR PUMP AND METHOD OF PUMPING

Title (de)
INNENZAHNRADPUMPE UND PUMPVERFAHREN

Title (fr)
POMPE À ENGRENAGE INTERNE ET PROCÉDÉ DE POMPAGE

Publication
EP 3212935 A2 20170906 (DE)

Application
EP 15780903 A 20151015

Priority
• DE 102014115548 A 20141027
• EP 2015073928 W 20151015

Abstract (en)
[origin: WO2016066440A2] The invention relates to an internal-gear pump (10), in particular for a hydraulic circuit (160) of a motor vehicle power train (140), said pump comprising: a housing (12); an internal rotor (14), mounted in the housing (12) to rotate about an internal rotor axis (32) and having external teeth; an external rotor (16), mounted in the housing (12) to rotate about an external rotor axis (36) and having internal teeth which engage with the external teeth of the internal rotor (14) in order to achieve the pumping action; and a ring element (20) which can be pivoted in the housing (12) between a first position (A) and a second position (B). The pivoting action of the ring element (20) between the first position (A) and the second position (B) is supported in at least one direction in that the internal rotor (14) and the external rotor (16) can be blocked against one another, at least in one part of the whole pivoting range.

IPC 8 full level
F04C 2/10 (2006.01); **F04C 14/04** (2006.01)

CPC (source: EP)
F04C 2/102 (2013.01); **F04C 14/04** (2013.01)

Citation (search report)
See references of WO 2016066440A2

Cited by
CN111120297A; US2023272794A1; US11965509B2

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102014115548 A1 20160428; EP 3212935 A2 20170906; EP 3212935 B1 20191002; WO 2016066440 A2 20160506;
WO 2016066440 A3 20160623

DOCDB simple family (application)
DE 102014115548 A 20141027; EP 15780903 A 20151015; EP 2015073928 W 20151015