

Title (en)
INTERNAL GEAR PUMP

Title (de)
INNENZAHNRADPUMPE

Title (fr)
POMPE À ENGRENAGES À DENTURE INTERNE

Publication
EP 2780598 B1 20210728 (DE)

Application
EP 12784559 A 20121105

Priority
• DE 102011086429 A 20111116
• EP 2012071809 W 20121105

Abstract (en)
[origin: WO2013072206A2] The invention relates to an internal gear pump (6), in particular for a motor vehicle, for conveying a fluid, comprising an internal gear (22) having an internal toothed ring (23), an external gear (24) having an external toothed ring (25), wherein the teeth (21) of the internal and external gears (22, 24) mutually engage, a work space (47) formed between the internal gear (22) and the external gear (24), which is divided into an inflow work space (30) and an outflow work space (31), an inflow channel (28) opening into the inflow work space (30) for introducing the fluid to be conveyed into the inflow work space (30), and an outflow channel (29) opening into the outflow work space (31) for discharging the fluid to be conveyed from the outflow work space (31), wherein the inflow work space (30) and the outflow work space (31) are separated from one another at a head location (48) and at a cog point (49) between the internal and the external gears (22, 24), wherein the inflow channel (28) in addition opens in part in an angular area (50) of the outflow work space (31).

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

CPC (source: EP)
F04C 2/102 (2013.01); **F04C 15/06** (2013.01); **F04C 2210/1044** (2013.01)

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 102011086429 A1 20130516; CN 103930676 A 20140716; CN 103930676 B 20170301; EP 2780598 A2 20140924;
EP 2780598 B1 20210728; IN 3499DEN2014 A 20150605; WO 2013072206 A2 20130523; WO 2013072206 A3 20140403

DOCDB simple family (application)
DE 102011086429 A 20111116; CN 201280055628 A 20121105; EP 12784559 A 20121105; EP 2012071809 W 20121105;
IN 3499DEN2014 A 20140430