

Title (en)
GEARWHEEL PUMP

Title (de)
ZAHNRADPUMPE

Title (fr)
POMPE À ENGRENAGES

Publication
EP 2018479 A1 20090128 (DE)

Application
EP 07729112 A 20070514

Priority

- EP 2007054660 W 20070514
- EP 06113845 A 20060512
- EP 07729112 A 20070514

Abstract (en)
[origin: EP1855007A1] The toothed wheel pump has a housing (9) with two toothed wheels (1). The toothed wheels engage into one another. A feed medium (M) is fed from a suction side (2) to a pressure side (3), and a return duct (4) is provided which leads feed medium which flows outward through the plain bearing back to the suction side. A valve (5) with a stationary part and a moveable part is provided. The valve has a setting characteristic which runs, as an approximation, linearly in one region, and the setting characteristic is defined by a pressure across the valve as a function of a setting path in the valve.

IPC 8 full level
F04C 2/18 (2006.01); **F04C 13/00** (2006.01); **F04C 14/26** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)
F04C 2/18 (2013.01 - EP US); **F04C 13/002** (2013.01 - EP US); **F04C 15/0038** (2013.01 - EP US); **F04C 15/0088** (2013.01 - EP US);
F04C 14/26 (2013.01 - EP US)

Citation (search report)
See references of WO 2007131994A1

Designated contracting state (EPC)
CH DE LI

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1855007 A1 20071114; EP 2018479 A1 20090128; JP 2009536992 A 20091022; JP 5027216 B2 20120919; US 2009169408 A1 20090702; US 8038422 B2 20111018; WO 2007131994 A1 20071122

DOCDB simple family (application)
EP 06113845 A 20060512; EP 07729112 A 20070514; EP 2007054660 W 20070514; JP 2009508394 A 20070514; US 29433007 A 20070514