

Title (en)

Internal gear pump with improved filling

Title (de)

Innenzahnradpumpe mit verbesserter Füllung

Title (fr)

Pompe à engrenage interne avec remplissage amélioré

Publication

EP 1406015 B1 20110720 (DE)

Application

EP 03020503 A 20030915

Priority

DE 10245814 A 20021001

Abstract (en)

[origin: EP1406015A1] The pump has a housing (3) containing a gear chamber (4), which itself contains an internal gear wheel (1) and an external gear wheel (2). There is at least one recess (10) in the feet of the external teeth (1a), extending to one endface of these teeth. This endface has a greater radial depth than the inner region of the tooth foot base spaced out axially from the endface.

IPC 8 full level

F04C 2/10 (2006.01); **F04C 2/08** (2006.01)

CPC (source: EP)

F04C 2/088 (2013.01); **F04C 2/102** (2013.01)

Cited by

CN102444577A; GB2443088A; GB2443088B; EP3193019A1; US10563653B2; WO2009130433A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1406015 A1 20040407; **EP 1406015 B1 20110720**; AT E517261 T1 20110815; DE 10245814 B3 20040212; ES 2369901 T3 20111209

DOCDB simple family (application)

EP 03020503 A 20030915; AT 03020503 T 20030915; DE 10245814 A 20021001; ES 03020503 T 20030915