

Title (en)
Gear pump

Title (de)
Zahnradpumpe und deren Verwendung

Title (fr)
Pompe à engrenages

Publication
EP 0677660 B1 19960515 (DE)

Application
EP 94105347 A 19940407

Priority
EP 94105347 A 19940407

Abstract (en)
[origin: EP0677660A1] The gearwheel pump has at least two externally toothed meshing rotors in a product channel. On both sides of the meshing area in relation to a plane (E_B) joining the rotor axes in the product channel walling (3) a vol. enlarging recess (5a1,5a2,5b1,5b2) is formed. The recesses are formed by permanently curved surfaces, pref. by ball surfaces, whereby only on the pressure side of the plane does a recess need to be provided. The rotors are located in product-lubricated slide bearings. The recess(es) is/are formed at least partly in the part of the product channel walling forming the face surfaces of the slide bearing body. <IMAGE>

IPC 1-7
F04C 2/08

IPC 8 full level
F04C 2/12 (2006.01); **F04C 2/08** (2006.01); **F04C 13/00** (2006.01)

CPC (source: EP US)
F04C 2/088 (2013.01 - EP US); **F04C 13/002** (2013.01 - EP US)

Cited by
US5547356A; DE10135709C1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0677660 A1 19951018; EP 0677660 B1 19960515; AT E138159 T1 19960615; DE 59400284 D1 19960620; DK 0677660 T3 19960603; ES 2087780 T3 19960716; JP H07279861 A 19951027; US 5547356 A 19960820

DOCDB simple family (application)
EP 94105347 A 19940407; AT 94105347 T 19940407; DE 59400284 T 19940407; DK 94105347 T 19940407; ES 94105347 T 19940407; JP 8136595 A 19950406; US 41785395 A 19950407