

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

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**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

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