

Title (en)
Gear pump

Title (de)
Zahnradpumpe

Title (fr)
Pompe à engrenages

Publication
EP 0602357 B1 19970806 (DE)

Application
EP 93117448 A 19931028

Priority
DE 9217162 U 19921216

Abstract (en)
[origin: EP0602357A1] In order to seal off from the outside an outward-leading rotor shaft (5) of a gear pump, a labyrinth seal (21) is provided in the housing cover (7) through which the shaft (5) passes. Axially adjoining the labyrinth seal (21) on the inside is a bearing portion with bearing shells (29). <IMAGE>

IPC 1-7
F04C 15/00; **F04C 2/18**

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

CPC (source: EP US)
F04C 15/0038 (2013.01 - EP US)

Cited by
US6315537B1; WO0034554A1

Designated contracting state (EPC)
CH DE ES FR GB IT LI NL

DOCDB simple family (publication)
DE 9217162 U1 19930325; DE 59307068 D1 19970911; EP 0602357 A1 19940622; EP 0602357 B1 19970806; JP H0749088 A 19950221; US 5462420 A 19951031

DOCDB simple family (application)
DE 9217162 U 19921216; DE 59307068 T 19931028; EP 93117448 A 19931028; JP 31495893 A 19931215; US 16707993 A 19931215