

Title (en)  
Magnetically coupled centrifugal pump

Title (de)  
Magnetgekuppelte Kreiselpumpe

Title (fr)  
Pompe centrifuge à entraînement magnétique

Publication  
**EP 0982499 B1 20050209 (DE)**

Application  
**EP 99114038 A 19990720**

Priority  
CH 172798 A 19980821

Abstract (en)  
[origin: US6280156B1] A magnetically coupled rotary pump has, in a pump chamber, a pump rotor mounted by a single slide bearing on a stationary axis of a pump bearing support. The slide bearing is formed on one side by a metal sleeve shrunk over the bearing sleeve, said sleeve being connected by means of a weld with the pump rotor, and on the other side by a bushing mounted on the pump bearing support or a one-piece slide bearing surface formed correspondingly directly on pump bearing support. With this design of the bearing, dead spaces and gaps are avoided, enabling complete cleaning and sterilization of the pump chamber with complete draining of the pump chamber. A pump of this kind is especially suitable for use in sterile applications.

IPC 1-7  
**F04D 13/02**; **F04D 29/04**

IPC 8 full level  
**F04D 13/02** (2006.01); **F04D 29/04** (2006.01); **F04D 29/046** (2006.01); **F04D 29/047** (2006.01)

CPC (source: EP US)  
**F04D 13/026** (2013.01 - EP US); **F04D 29/0465** (2013.01 - EP US); **F04D 29/047** (2013.01 - EP US)

Cited by  
EP1329638A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0982499 A1 20000301**; **EP 0982499 B1 20050209**; AT E289008 T1 20050215; DE 59911579 D1 20050317; US 6280156 B1 20010828

DOCDB simple family (application)  
**EP 99114038 A 19990720**; AT 99114038 T 19990720; DE 59911579 T 19990720; US 38219099 A 19990823