

Title (en)  
Centrifugal pump

Title (de)  
Kreispumpe

Title (fr)  
Pompe centrifugale

Publication  
**EP 1296062 B1 20110105 (DE)**

Application  
**EP 02020615 A 20020913**

Priority  
DE 20115516 U 20010920

Abstract (en)  
[origin: EP1296062A1] The single stage circulating pump includes a pump shaft(5) with an axial stop(13) and adjusting device bearing upon it. The adjusting device is formed by an externally threaded ring(15) seated on the pump shaft and which screws onto an internal thread(17) provided in the forward hub region of the pump impeller(6), with both threads being fine. The threaded ring is locked in position by a thrust component(20) pressing against the axial stop and screwed axially on the end of the pump shaft.

IPC 8 full level  
**F04D 7/04** (2006.01); **F04D 29/04** (2006.01); **F04D 29/10** (2006.01); **F04D 29/12** (2006.01); **F04D 29/16** (2006.01); **F04D 29/22** (2006.01)

CPC (source: EP US)  
**F04D 7/045** (2013.01 - EP US); **F04D 29/622** (2013.01 - EP US)

Citation (examination)  
US 5306124 A 19940426 - BACK CARL F [US]

Cited by  
DE102014116449A1; CN102322443A; DE102014116449B4

Designated contracting state (EPC)  
DE FR GB IT NL

DOCDB simple family (publication)  
**DE 20115516 U1 20011129**; DE 50214845 D1 20110217; EP 1296062 A1 20030326; EP 1296062 B1 20110105; US 2003072650 A1 20030417; US 6746206 B2 20040608

DOCDB simple family (application)  
**DE 20115516 U 20010920**; DE 50214845 T 20020913; EP 02020615 A 20020913; US 24709202 A 20020919