

Title (en)

Centrifugal pump with adjustment of the axial and radial clearances without opening the pump body

Title (de)

Kreiselpumpe mit Axial- und Radialspieleinstellung ohne das Pumpengehäuse zu öffnen

Title (fr)

Pompe centrifuge avec réglage de jeu axial et radial sans démonter le boîtier

Publication

**EP 1247994 A3 20030402 (EN)**

Application

**EP 02076079 A 20020320**

Priority

IT MI20010592 A 20010321

Abstract (en)

[origin: EP1247994A2] A centrifugal pump comprises a pump body or casing (2), a rotor (5) connected to a shaft (4), an upper removable cover (3), with the seal between the pump body (2) and the rotor (5) being ensured by rings (10, 11), attached to the casing (2), facing rings (25), attached to the rotor (5), which are made to rotate with it. According to the invention, both the fixed sealing rings (10, 11) and the bearings for supporting the rotating part of the pump (8, 9; 8bis, 9bis) are assembled on two removable side covers (6, 7) arranged at the two sides of the pump body (2).  
<IMAGE>

IPC 1-7

**F04D 29/62**; F04D 29/42; F04D 29/16

IPC 8 full level

**F04D 1/00** (2006.01); **F04D 29/62** (2006.01)

CPC (source: EP)

**F04D 1/006** (2013.01); **F04D 29/167** (2013.01); **F04D 29/622** (2013.01); **F04D 29/628** (2013.01)

Citation (search report)

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- [A] FR 723344 A 19320407 - BEAUDREY ET BERGERON SOC
- [A] DE 3513116 A1 19861023 - MASCHF AUGSBURG NUERNBERG AG [DE]
- [A] US 6004094 A 19991221 - PRECETTI MASSIMO [IT]

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Designated contracting state (EPC)

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**EP 1247994 A2 20021009**; **EP 1247994 A3 20030402**; **EP 1247994 B1 20040414**; AT E264459 T1 20040415; DE 60200359 D1 20040519; DE 60200359 T2 20050504; ES 2220873 T3 20041216; IT MI20010592 A0 20010321; IT MI20010592 A1 20020921; TR 200401664 T4 20040823

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