

Title (en)

Device for the performance adaptation of a liquid ring pump

Title (de)

Vorrichtung zur Anpassung der Leistung einer Flüssigkeitsringpumpe

Title (fr)

Appareil pour l'adaptation des performances d'une pompe à anneau liquide

Publication

**EP 1762728 A1 20070314 (EN)**

Application

**EP 06019078 A 20060912**

Priority

DE 102005043434 A 20050913

Abstract (en)

For a device (4) for the performance adaptation of a liquid ring pump, said liquid ring pump (1) comprising a cylindrical workspace (6) for conveying a conveyed fluid (15) between an intake socket (16a) and a pressure socket (18a). The device (4) comprises a control unit (28), control line (22) and a control element (26,102, 206b) connected with the workspace (6). The device is designed to vary the amount of the operating fluid (5) of the liquid ring pump (1) during operation (running) of said pump (1). Also, a method for adapting the performance of the liquid ring pump (1), which is performed in particular via the device (4) is specified.

IPC 8 full level

**F04C 19/00** (2006.01)

CPC (source: EP US)

**F04C 19/001** (2013.01 - EP US); **F04C 19/004** (2013.01 - EP US)

Citation (applicant)

- US 4392783 A 19830712 - JOZEPAITIS CHARLES M
- US 2230405 A 19410204 - JENNINGS IRVING C
- SU 779643 A1 19801115 - GAJDAR NIKOLAJ D [SU], et al
- US 6558131 B1 20030506 - NASH JR DAVID H [US]
- DE 29803322 U1 19990715 - SPECK PUMPEN WALTER SPECK KG [DE]
- US 5588806 A 19961231 - TRIMBORN PETER [DE], et al
- DE 662514 C 19380715 - SIEMENS AG
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- US 6551071 B1 20030422 - BLENDER HELMUT [DE], et al

Citation (search report)

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- [X] US 6558131 B1 20030506 - NASH JR DAVID H [US]
- [X] DE 29803322 U1 19990715 - SPECK PUMPEN WALTER SPECK KG [DE]
- [X] US 5588806 A 19961231 - TRIMBORN PETER [DE], et al
- [X] DE 662514 C 19380715 - SIEMENS AG
- [Y] JP H05118285 A 19930514 - EBARA CORP
- [YA] US 6551071 B1 20030422 - BLENDER HELMUT [DE], et al
- [X] DATABASE WPI Week 198132, Derwent World Patents Index; AN 1981-H4211D, XP002410601
- [A] "Disassembly & assembly instructions for liquid ring vacuum pumps with mechanical seals", April 2002, TRAVAINI PUMPS USA, XP002258122

Cited by

CN110418891A; WO2018156909A1; WO2023156951A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 06019078 A 20060912**; CN 200610127419 A 20060913; DE 102005043434 A 20050913; ES 06019078 T 20060912; US 53136206 A 20060913