

Title (en)

LOW-NOISE PUMP COOLED BY THE PUMPED WATER

Title (de)

DURCH DAS PUMPENWASSER GEKÜHLTE GERÄUSCHARME PUMPE

Title (fr)

POMPE A FAIBLE BRUIT REFROIDI PAR L'EAU POMPEE

Publication

EP 1483509 A1 20041208 (EN)

Application

EP 03799066 A 20030909

Priority

- IT 0300537 W 20030909
- IT PD20020255 A 20021004

Abstract (en)

[origin: WO2004031591A1] The invention is a new pump comprising an electric immersion motor (M) and two or more centrifugal impellers (G) enclosed by two concentric cylindrical jackets (Ci, Ce), so as to create an interspace (Ia) between the internal jacket (Ci) and the motor (M) and an interspace (Im) between said two jackets (Ci, Ce). The pumped water flows through the internal interspace (Ia) striking the motor (M), passes through the centrifugal impellers (G) and through the interspace (Im) between the two jackets (Ci, Ce) before being expelled by the pump. The internal jacket (Ci) has a hole (Cio) in its bottom (Cif), through which the volume inside the internal jacket (Ci) communicates with the interspace (Im). The two connections (Oa, Om) are positioned radially to the jackets (Ci, Ce), opposite each other and coaxial. An inverter controls the pump automatically.

IPC 1-7

F04D 29/58; **F04D 1/06**; **F04D 13/06**

IPC 8 full level

F04D 1/06 (2006.01); **F04D 13/06** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2004031591A1

Cited by

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DOCDB simple family (publication)

WO 2004031591 A1 20040415; AT E432421 T1 20090615; AU 2003265161 A1 20040423; DE 60327741 D1 20090709; EP 1483509 A1 20041208; EP 1483509 B1 20090527; IT PD20020255 A1 20040405; US 2005047933 A1 20050303

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