

Title (en)
Sliding-contact bearing for a centrifugal pump

Title (de)
Gleitlager für eine Kreiselpumpe

Title (fr)
Palier à glissement pour une pompe centrifuge

Publication
EP 1201931 A3 20050608 (EN)

Application
EP 01204014 A 20011022

Priority
IT MI20002290 A 20001023

Abstract (en)
[origin: EP1201931A2] A protection device (20) for centrifugal pumps with a vertical axis, where the aforementioned pump comprises a case (5) containing a shaft (21), with the pump also comprising an impeller (3) connected to said shaft (21) and free to rotate inside said case (5). The device (20) comprises a first ring (1), mobile in rotation with the impeller (3) and a second ring (2), in a fixed position with respect to the case (5), in such a way that the sliding contact between the aforementioned first and second ring (1, 2) allows the dry operation of the centrifugal pump. <IMAGE>

IPC 1-7
F04D 29/04

IPC 8 full level
F04D 29/04 (2006.01); **F04D 29/041** (2006.01)

CPC (source: EP)
F04D 29/0413 (2013.01)

Citation (search report)

- [X] US 6106224 A 20000822 - SHETH KETANKUMAR KANTILAL [US], et al
- [X] US 5765950 A 19980616 - ENO JAMES JOSEPH [US], et al
- [XY] EP 0806579 A2 19971112 - WILO GMBH [DE]
- [Y] DE 29503755 U1 19950420 - GRUNDFOS AS [DK]

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

DOCDB simple family (publication)
EP 1201931 A2 20020502; EP 1201931 A3 20050608; IT 1319022 B1 20030919; IT MI20002290 A1 20020423

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