

Title (en)
DRIVE DEVICE FOR THE IMMERSED OPERATION BELOW A LIQUID SURFACE

Title (de)
ANTRIEBSVORRICHTUNG ZUM TAUCHBETRIEB UNTERHALB EINER FLÜSSIGKEITSOBERFLÄCHE

Title (fr)
DISPOSITIF D'ENTRAÎNEMENT POUR LE FONCTIONNEMENT EN IMMERSION AU-DESSOUS D'UNE SURFACE DE LIQUIDE

Publication
EP 2121173 A1 20091125 (DE)

Application
EP 08716586 A 20080318

Priority
• EP 2008002124 W 20080318
• DE 102007013630 A 20070319

Abstract (en)
[origin: US2011003646A1] The invention relates to a drive device for the immersed operation below a surface of a liquid (F), particularly for the immersed operation in a clearing basin, having a drive shaft (5) guided out of a housing, wherein the drive shaft (5) is guided through an axial face seal (12, 13) received in a sealing chamber (10) for sealing the housing against penetrating liquid. In order to improve the service life of the seal, the invention provides that a line (22) is connected to the sealing chamber (10) for receiving an oil supply and is guided to above the surface of the liquid (F).

IPC 8 full level
B01F 35/60 (2022.01); **B01F 27/71** (2022.01); **F16J 15/34** (2006.01)

CPC (source: EP US)
B01F 23/2331 (2022.01 - EP US); **B01F 23/23313** (2022.01 - EP); **B01F 23/23362** (2022.01 - EP); **B01F 27/117** (2022.01 - EP US); **B01F 27/25** (2022.01 - EP US); **B01F 27/92** (2022.01 - US); **B01F 35/323** (2022.01 - US); **B01F 23/23313** (2022.01 - US); **B01F 23/23362** (2022.01 - US)

Citation (search report)
See references of WO 2008113547A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2011003646 A1 20110106; US 8459863 B2 20130611; AT E471757 T1 20100715; BR PI0808767 A2 20140916; BR PI0808767 B1 20190917; CN 101636222 A 20100127; CN 101636222 B 20121121; DE 102007013630 A1 20080925; DE 102007013630 B4 20091029; DE 502008000835 D1 20100805; DK 2121173 T3 20101018; EP 2121173 A1 20091125; EP 2121173 B1 20100623; ES 2353985 T3 20110308; JP 2010521295 A 20100624; JP 5020337 B2 20120905; PL 2121173 T3 20101130; WO 2008113547 A1 20080925

DOCDB simple family (application)
US 44966808 A 20080318; AT 08716586 T 20080318; BR PI0808767 A 20080318; CN 200880008982 A 20080318; DE 102007013630 A 20070319; DE 502008000835 T 20080318; DK 08716586 T 20080318; EP 08716586 A 20080318; EP 2008002124 W 20080318; ES 08716586 T 20080318; JP 2009553964 A 20080318; PL 08716586 T 20080318