

Title (en)  
Regenerative pump

Title (de)  
Seitenkanalpumpe

Title (fr)  
Pompe régénérative

Publication  
**EP 1191227 A3 20041208 (EN)**

Application  
**EP 01402295 A 20010905**

Priority  
• JP 2000285182 A 20000920  
• JP 2001200637 A 20010702

Abstract (en)  
[origin: EP1191227A2] The light, cheap, and high-performance regenerative pump, for pumping a methanol-water fuel of a fuel cell, is adapted to the fuel. At least one of an impeller 1 of the regenerative pump and an inner wall 2 of the pump is made of polyphenylene sulfide or polyphenylene sulfide containing a filler, and a thrust clearancer formed between the pump chamber inner wall 2 and an impeller peripheral face is set so as to be assured even in a state where the impeller 1 swells. <IMAGE>

IPC 1-7  
**F04D 5/00**; **F04D 29/02**

IPC 8 full level  
**F04D 5/00** (2006.01); **F04D 29/02** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP US)  
**F04D 5/002** (2013.01 - EP US); **F04D 29/026** (2013.01 - EP US); **F05D 2300/43** (2013.01 - EP US); **F05D 2300/615** (2013.01 - EP US)

Citation (search report)  
• [XY] EP 0609877 A1 19940810 - NIPPON DENSO CO [JP]  
• [Y] EP 0828081 A1 19980311 - HONDA MOTOR CO LTD [JP]  
• [X] US 5248238 A 19930928 - ISHIDA SHINJI [JP], et al  
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• [A] US 5702229 A 19971230 - MOSS GLENN A [US], et al

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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 1191227 A2 20020327**; **EP 1191227 A3 20041208**; JP 2002168188 A 20020614; US 2002054814 A1 20020509

DOCDB simple family (application)  
**EP 01402295 A 20010905**; JP 2001200637 A 20010702; US 93958801 A 20010828