

Title (en)
Double-suction pump

Title (de)
Doppelseitig saugende Pumpe

Title (fr)
Pompe à double aspiration

Publication
EP 0719941 A1 19960703 (EN)

Application
EP 95120597 A 19951227

Priority
JP 33784594 A 19941227

Abstract (en)
A full-circumferential-flow double-suction pump having impellers on respective opposite ends of the shaft of a motor, with an annular space or flow passage defined around the motor. The vertical double-suction pump has an outer cylinder and a motor housed in the outer cylinder. The motor has a stator and a rotor rotatably disposed in the stator. The outer cylinder defines a flow passage defined around the stator. A main shaft which supports the rotor extends substantially vertically. The pump also includes a pair of upper and lower impellers mounted respectively on upper and lower ends of the main shaft in communication with the flow passage. <IMAGE>

IPC 1-7
F04D 13/14; **F04D 1/06**; **F04D 29/42**; **F04D 1/00**

IPC 8 full level
F04D 29/046 (2006.01); **F04D 1/00** (2006.01); **F04D 1/06** (2006.01); **F04D 13/06** (2006.01); **F04D 13/14** (2006.01); **F04D 29/42** (2006.01)

CPC (source: EP KR)
F04D 1/006 (2013.01 - EP); **F04D 1/06** (2013.01 - EP); **F04D 11/00** (2013.01 - KR); **F04D 29/4266** (2013.01 - EP)

Citation (search report)

- [DA] EP 0566089 A1 19931020 - EBARA CORP [JP]
- [A] DE 865708 C 19530205 - PLEUGER K G
- [A] EP 0566087 A1 19931020 - EBARA CORP [JP]
- [A] US 4934914 A 19900619 - KOBAYASHI MAKOTO [JP], et al
- [A] FR 813301 A 19370531 - CONST MECANIQUE
- [A] EP 0009449 A1 19800402 - THOMSON CSF MAT TEL [FR]
- [DA] DE 1653692 A1 19710609 - ITT IND GMBH DEUTSCHE

Cited by
CN102072167A; CN103452867A; CN102735422A; CN105317696A; US9046107B2

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

DOCDB simple family (publication)
EP 0719941 A1 19960703; JP H08177782 A 19960712; KR 960023827 A 19960720

DOCDB simple family (application)
EP 95120597 A 19951227; JP 33784594 A 19941227; KR 19950058265 A 19951227