

Title (en)

Control method for displacement-type fluid machine, and apparatus thereof

Title (de)

Verfahren für die Regelung von Verdrängungstyp-Fluidmaschinen und Einrichtung hierfür

Title (fr)

Procédé de réglage pour le déplacement des machines de type fluide et dispositif pour celui-ci

Publication

EP 0750116 A1 19961227 (EN)

Application

EP 96109849 A 19960619

Priority

JP 17542995 A 19950619

Abstract (en)

A method and an apparatus for controlling a displacement-type fluid machine which handles fluid including gas and/or liquid for increasing or decreasing pressure of the fluid or transporting the fluid, comprising: provision of an alternating current motor for driving the displacement-type fluid machine; and provision of a frequency converter which is capable of conducting frequency conversion up to a range higher than the power source frequency to adjust the number of revolutions of the motor; wherein the number of revolution is adjusted so that input current to the motor is kept constant, regardless of any change in operating pressure of the displacement-type fluid machine, whereby the displacement-type fluid machine is operated maintaining the process values within an allowable limit without effecting repeated actuation and stopping of the machine.

IPC 1-7

F04B 49/06; H02P 7/42; H02P 5/34

IPC 8 full level

F04D 15/00 (2006.01); **F04B 49/20** (2006.01); **F04C 14/08** (2006.01)

CPC (source: EP)

F04B 49/20 (2013.01); **F04C 14/08** (2013.01); **F04B 2203/0204** (2013.01); **F04C 2270/01** (2013.01); **F04C 2270/075** (2013.01); **F04C 2270/095** (2013.01); **F04C 2270/40** (2013.01)

Citation (search report)

- [X] US 4511312 A 19850416 - HARTWIG CARL S M [SE]
- [A] DE 3226150 A1 19840119 - ARID PATENT AG [CH]
- [A] DE 3931178 A1 19910328 - TELEFUNKEN ELECTRONIC GMBH [DE]

Cited by

CN106050634A; CN103671054A; EP3199813A1; CN107013443A; US6863502B2; US7499567B2; US10451052B2; WO0179697A3

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0750116 A1 19961227; **EP 0750116 B1 20010523**; DE 69612911 D1 20010628; DE 69612911 T2 20020328; JP H094591 A 19970107

DOCDB simple family (application)

EP 96109849 A 19960619; DE 69612911 T 19960619; JP 17542995 A 19950619