

Title (en)  
Controller for a Motor and a Method of Controlling the Motor

Title (de)  
Steuerung für einen Motor und Verfahren zur Motorsteuerung

Title (fr)  
Contrôleur pour moteur et procédé de contrôle du moteur

Publication  
**EP 1914427 A1 20080423 (EN)**

Application  
**EP 07118064 A 20071008**

Priority  
US 54949906 A 20061013

Abstract (en)  
A pumping apparatus for a jetted-fluid system includes a pump having an inlet connectable to the drain, and an outlet connectable to the return. The pump is adapted to receive the fluid from the drain and jet fluid through the return. The pumping apparatus includes a motor coupled to the pump to operate the pump, a sensor connectable to the power source and configured to generate a signal having a relation to a parameter of the motor, and a switch coupled to the motor and configured to control at least a characteristic of the motor. The pumping apparatus also includes a microcontroller coupled to the sensor and the switch. The microcontroller is configured to generate a derivative value based on the signal, and to control the motor based on the derivative value.

IPC 8 full level  
**F04D 15/00** (2006.01); **F04D 15/02** (2006.01); **H02H 3/00** (2006.01); **H02H 7/08** (2006.01)

CPC (source: EP US)  
**F04D 15/00** (2013.01 - EP US); **F04D 15/0055** (2013.01 - EP US); **F04D 15/0066** (2013.01 - EP US); **F04D 15/0236** (2013.01 - EP US)

Citation (applicant)  
EP 0246769 A2 19871125 - FRANKLIN ELECTRIC CO INC [US]

Citation (search report)

- [X] EP 0246769 A2 19871125 - FRANKLIN ELECTRIC CO INC [US]
- [X] US 5577890 A 19961126 - NIELSEN CARL J [US], et al
- [X] WO 2005111473 A2 20051124 - ITT MFG ENTPR [US], et al
- [A] US 4420787 A 19831213 - TIBBITS JOHN L [US], et al
- [A] US 4841404 A 19890620 - MARSHALL WILLIAM W [US], et al
- [A] US 4678404 A 19870707 - LORETT JERZY A [AU], et al
- [A] EP 0833436 A2 19980401 - GEN ELECTRIC [US]

Cited by  
EP2345124A4; GB2474691A; GB2474946A; US10024325B2; US9745974B2

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DE ES FR GB

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1914427 A1 20080423; EP 1914427 B1 20110323; EP 1914427 B8 20111005**; CA 2605891 A1 20080413; CA 2605891 C 20150414; DE 602007013339 D1 20110505; ES 2363808 T3 20110817; US 2008095639 A1 20080424; US 2009288407 A1 20091126

DOCDB simple family (application)  
**EP 07118064 A 20071008**; CA 2605891 A 20071005; DE 602007013339 T 20071008; ES 07118064 T 20071008; US 50636209 A 20090721; US 54949906 A 20061013