

Title (en)
Pump with power supply regulator

Title (de)
Pumpe mit Netzgeräteregele

Title (fr)
Pompe dotée d'un circuit d'alimentation réglé

Publication
EP 2290240 A3 20140813 (DE)

Application
EP 10008986 A 20100830

Priority
AT 13682009 A 20090901

Abstract (en)
[origin: EP2290240A2] The pump (1) has a direct-current motor (6), and a power supply unit connected to a supply of the motor. The power supply unit rectifies and/or converts received alternative current voltage or direct current voltage. The power supply unit includes a closed control loop for controlling a controlled variable of the pump, and the motor includes a mechanical commutator. The controlled variable of the pump is variably selected from a group consisting of rotary speed of the motor, current drawn by the motor and pump feed power. An independent claim is also included for a method for pumping liquid.

IPC 8 full level
F04D 15/00 (2006.01)

CPC (source: EP US)
F04B 17/03 (2013.01 - EP US); **F04D 15/0066** (2013.01 - EP US)

Citation (search report)

- [X] EP 0619432 A1 19941012 - VOGEL PUMPEN [AT]
- [X] US 2003099548 A1 20030529 - MEZA HUMBERTO V [US], et al
- [A] US 2002141874 A1 20021003 - SCHOENMEYER IVAR L [US]
- [A] US 6541947 B1 20030401 - DITTMER BERND [DE], et al
- [A] US 2007154319 A1 20070705 - STILES ROBERT W JR [US], et al

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EP2891802A1; WO2016180800A1

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

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2290240 A2 20110302; EP 2290240 A3 20140813; AT 509300 A1 20110715; US 2011052420 A1 20110303

DOCDB simple family (application)
EP 10008986 A 20100830; AT 13682009 A 20090901; US 87129010 A 20100830