

Title (en)

MULTI-SETTING PUMP WITH DELAYED SETTING SWITCHING FUNCTION

Title (de)

MEHREINSTELLUNGSPUMPE MIT SCHALTFUNKTION MIT VERZÖGERTER EINSTELLUNG

Title (fr)

POMPE À PLUSIEURS RÉGLAGES AVEC FONCTION DE COMMUTATION À RÉGLAGE RETARDÉ

Publication

**EP 4202225 A1 20230628 (EN)**

Application

**EP 22212107 A 20221208**

Priority

CN 202111588703 A 20211223

Abstract (en)

A multi-setting pump, comprising a pump part (1) driven by a motor (2), the multi-setting pump having multiple settings which at least comprise a high setting and a low setting, wherein the multi-setting pump further comprises a control unit (3), comprising: a control board for controlling operation of the motor and the pump part, a frequency changer for controlling a drive current of the motor, and a setting control module integrated in the control board or frequency changer; a low-setting operating situation condition and a high-setting operating situation condition are set in the setting control module; the setting control module is configured to perform a down-switching operation after a down-switching delay when the low-setting operating situation condition is met, and/or perform an up-switching operation after an up-switching delay when the high-setting operating situation condition is met.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [IA] US 2016346462 A1 20161201 - ADAMS GRANT [US], et al
- [A] DE 102012009136 A1 20131107 - BOSCH GMBH ROBERT [DE]
- [A] DE 102014001981 A1 20150820 - BOSCH GMBH ROBERT [DE]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4202225 A1 20230628**; CN 114294210 A 20220408; CN 114294210 B 20240830

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