

Title (en)
METHOD FOR OPERATING AN UNDULATING-MEMBRANE PUMP, AND SYSTEM FOR OPERATING AN UNDULATING-MEMBRANE PUMP

Title (de)
STEUERUNGSVERFAHREN EINER PUMPE MIT EINER UNDULIERENDEN MEMBRAN, UND STEUERUNGSSYSTEM EINER PUMPE MIT UNDULIERENDER MEMBRAN

Title (fr)
PROCEDE DE PILOTAGE D'UNE POMPE A MEMBRANE ONDULANTE, ET SYSTEME PILOTE DE POMPE A MEMBRANE ONDULANTE

Publication
EP 3279475 A1 20180207 (FR)

Application
EP 17179623 A 20170704

Priority
FR 1657507 A 20160802

Abstract (en)
[origin: JP2018021552A] PROBLEM TO BE SOLVED: To provide a method for operating an undulating diaphragm pump and a system for operating an undulating diaphragm pump, which enable the use of an undulating diaphragm pump to be optimized by reducing the energy consumption of the undulating diaphragm pump and increasing the performance thereof. SOLUTION: The present invention relates to a method for operating an undulating diaphragm pump 2 comprising an undulating diaphragm 7 and actuating means 9 of the undulating diaphragm 7 electrically powered according to a given frequency and/or voltage to make the undulating diaphragm 7 oscillate and undulate. The method comprises modifying the electrical supply frequency and/or voltage of the actuating means 9 according to at least one operating parameter, determined in advance, of the undulating diaphragm pump 2. SELECTED DRAWING: Figure 1

Abstract (fr)
La présente invention concerne un procédé de pilotage d'une pompe à membrane ondulante (2) comprenant une membrane ondulante (7) et des moyens d'actionnement (9) de la membrane ondulante (7) alimentés électriquement selon une fréquence ou une tension donnée pour faire osciller et onduler la membrane ondulante (7). Selon l'invention, le procédé consiste à faire varier la fréquence et ou la tension d'alimentation électrique des moyens d'actionnement (9) en fonction d'au moins un paramètre de fonctionnement, préalablement déterminé, de la pompe à membrane ondulante (2).

IPC 8 full level
F04B 43/00 (2006.01); **F04B 43/02** (2006.01); **F04B 43/04** (2006.01); **F04B 49/06** (2006.01)

CPC (source: EP US)
F04B 43/0018 (2013.01 - EP US); **F04B 43/0054** (2013.01 - EP US); **F04B 43/04** (2013.01 - EP US); **F04B 49/06** (2013.01 - EP US); **F04B 2201/00** (2013.01 - US); **F04B 2203/0202** (2013.01 - US); **F04B 2203/0204** (2013.01 - US); **F04B 2203/0401** (2013.01 - EP US); **F04B 2203/0402** (2013.01 - EP US); **F04B 2203/0404** (2013.01 - EP US); **F04B 2203/0408** (2013.01 - EP US)

Citation (search report)

- [X] EP 0412856 A1 19910213 - POMPES SALMSON SA [FR]
- [A] WO 2005119062 A1 20051215 - VIACOR [FR], et al
- [A] WO 2015173280 A1 20151119 - SAINT GOBAIN PERFORMANCE PLAST [FR]
- [A] FR 972512 A 19510131

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3279475 A1 20180207; **EP 3279475 B1 20190313**; BR 102017015730 A2 20180515; CA 2973869 A1 20180202; ES 2718423 T3 20190701; FR 3054861 A1 20180209; FR 3054861 B1 20190823; JP 2018021552 A 20180208; RU 2017126314 A 20190124; RU 2017126314 A3 20200826; US 2018038364 A1 20180208

DOCDB simple family (application)
EP 17179623 A 20170704; BR 102017015730 A 20170721; CA 2973869 A 20170719; ES 17179623 T 20170704; FR 1657507 A 20160802; JP 2017142384 A 20170724; RU 2017126314 A 20170724; US 201715654137 A 20170719