

Title (en)

METHOD AND DEVICE FOR MAINTAINING A PUMPING SYSTEM IN OPERATIONAL CONDITION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BEWAHRUNG EINES PUMPSYSTEMS IM BETRIEBSZUSTAND

Title (fr)

PROCÉDÉ ET DISPOSITIF DE MAINTIEN EN CONDITION OPÉRATIONNELLE D'UN SYSTÈME DE POMPAGE

Publication

EP 3701152 A1 20200902 (FR)

Application

EP 18789158 A 20181023

Priority

- FR 1760073 A 20171025
- EP 2018079057 W 20181023

Abstract (en)

[origin: WO2019081524A1] A method for maintaining a pumping system (2), that is part of a pumping station (1), in operational service (30), said pumping system (2) comprising a pump (20), a motor (21) driving the pump (20), and a pipe for discharging fluid by the pump (20). Said method comprises at least the following steps: - measurement of physical values, operational characteristics of the pumping system (2), including hydraulic values that are characteristic of the state of the pump discharge pipe (20); - analysis and interpretation of the measured physical values with the aim of detecting one or more anomalies; - pre-diagnosis of the probable causes of the detected anomalies and determination of the preventive and curative actions to take on the pumping system (2); automatic implementation of the preventive and curative actions on the pumping system (2).

IPC 8 full level

F04D 7/04 (2006.01); **F04D 13/06** (2006.01); **F04D 15/00** (2006.01)

CPC (source: EP US)

F04D 7/04 (2013.01 - EP); **F04D 13/06** (2013.01 - EP US); **F04D 15/0077** (2013.01 - EP US); **F04D 15/0088** (2013.01 - EP US)

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)

FR 3072737 A1 20190426; **FR 3072737 B1 20210924**; AU 2018356378 A1 20200604; CL 2020001085 A1 20200814;
CN 111247344 A 20200605; CN 111247344 B 20220722; EP 3701152 A1 20200902; MA 50444 A 20200902; US 11920600 B2 20240305;
US 2020340483 A1 20201029; WO 2019081524 A1 20190502

DOCDB simple family (application)

FR 1760073 A 20171025; AU 2018356378 A 20181023; CL 2020001085 A 20200422; CN 201880068734 A 20181023;
EP 18789158 A 20181023; EP 2018079057 W 20181023; MA 50444 A 20181023; US 201816759005 A 20181023