

Title (en)

Method for detecting operation errors of a pump aggregate

Title (de)

Verfahren zur Ermittlung von Fehlern beim Betrieb eines Pumpenaggregates

Title (fr)

Procédé de détection des erreurs de fonctionnement d'une unité de pompage

Publication

EP 1564411 B1 20080319 (DE)

Application

EP 04002979 A 20040211

Priority

EP 04002979 A 20040211

Abstract (en)

[origin: EP1564411A1] In a process to detect a fault during operation of an electric motor-powered pump, a monitoring has two electric wires linking the electric motor to a power monitoring system, and a further sensor monitoring a hydraulic parameter in the pump. The electrical and hydraulic values are logged and processed in an algorithm by a data processing system, the results being compared with pre-stored values. Also claimed is a commensurate pump monitoring system.

IPC 8 full level

F04D 15/02 (2006.01); **F04D 27/02** (2006.01)

CPC (source: EP US)

F04D 15/0236 (2013.01 - EP US); **F04D 15/0245** (2013.01 - EP US)

Cited by

EP2039939A1; EP1914428A3; RU2743866C1; DE102013211345B4; WO2009039934A1; WO2008119932A1; WO2010094606A3; US9218565B2; US9230208B2; US9530092B2; JP2010539380A; EP2039939B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1564411 A1 20050817; EP 1564411 B1 20080319; EP 1564411 B2 20150805; AT E389807 T1 20080415; CN 1938520 A 20070328; CN 1938520 B 20110720; DE 502004006565 D1 20080430; US 2008240931 A1 20081002; US 2012101788 A1 20120426; US 8070457 B2 20111206; US 8353676 B2 20130115; WO 2005078287 A1 20050825

DOCDB simple family (application)

EP 04002979 A 20040211; AT 04002979 T 20040211; CN 200580008075 A 20050205; DE 502004006565 T 20040211; EP 2005001193 W 20050205; US 201113284049 A 20111028; US 59789208 A 20080505