

Title (en)
METHOD AND SYSTEM FOR IDENTIFYING DAMAGE TO PISTON MEMBRANE PUMPS CONTAINING WORKING FLUIDS

Title (de)
VERFAHREN UND SYSTEM ZUM ERKENNEN VON SCHÄDEN AN ARBEITSFLÜSSIGKEITEN UMFASSENDEN KOLBEN-MEMBRANPUMPEN

Title (fr)
PROCÉDÉ ET SYSTÈME POUR DÉTECTER DES DÉTÉRIORATIONS DANS DES POMPES À PISTON-MEMBRANE CONTENANT DES LIQUIDES DE TRAVAIL

Publication
EP 2638288 A1 20130918 (DE)

Application
EP 11772958 A 20111018

Priority
• DE 102010060532 A 20101112
• EP 2011068186 W 20111018

Abstract (en)
[origin: WO2012062542A1] In a method and a system for identifying damage to piston membrane pumps containing working fluids, the pressure of the working fluid is measured during operation in relation to the time and compared with a desired value profile, and a signal is triggered if a predetermined deviation is exceeded.

IPC 8 full level
F04B 15/02 (2006.01); **F04B 43/067** (2006.01); **F04B 45/053** (2006.01); **F04B 51/00** (2006.01)

CPC (source: EP US)
F04B 15/02 (2013.01 - EP); **F04B 43/067** (2013.01 - EP US); **F04B 45/0533** (2013.01 - EP US); **F04B 51/00** (2013.01 - EP); **F04B 2205/06** (2013.01 - EP)

Citation (search report)
See references of WO 2012062542A1

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

DOCDB simple family (publication)
DE 102010060532 A1 20120516; AU 2011328429 A1 20130530; AU 2011328429 B2 20160218; BR 112013011648 A2 20160802; CL 2013001323 A1 20130809; CL 2015003478 A1 20160729; EP 2638288 A1 20130918; PE 20140463 A1 20140504; WO 2012062542 A1 20120518; ZA 201302998 B 20151125

DOCDB simple family (application)
DE 102010060532 A 20101112; AU 2011328429 A 20111018; BR 112013011648 A 20111018; CL 2013001323 A 20130513; CL 2015003478 A 20151127; EP 11772958 A 20111018; EP 2011068186 W 20111018; PE 2013000921 A 20111018; ZA 201302998 A 20130424