

Title (en)

METHOD FOR MONITORING THE OPERATION OF A GAS TURBINE

Title (de)

VERFAHREN ZUM ÜBERWACHEN DES BETRIEBS EINER GASTURBINE

Title (fr)

PROCÉDÉ DE SURVEILLANCE DU FONCTIONNEMENT D'UNE TURBINE À GAZ

Publication

EP 2870439 A2 20150513 (DE)

Application

EP 13745023 A 20130725

Priority

- DE 102012215410 A 20120830
- EP 2013065732 W 20130725

Abstract (en)

[origin: WO2014032875A2] The invention relates to a method for monitoring the operation of a gas turbine 10, in which component vibrations are detected during the operation of the gas turbine 10 by an acceleration sensor 40 arranged on the component, a plurality of signal sections being determined by means of a plurality of frequency bands fb from the signal 39 forwarded and processed by the acceleration sensor 40. To avoid an unnecessary shutdown of the gas turbine 10 to perform an inspection which subsequently proves unnecessary, thereby increasing the availability of the gas turbine 10, the invention proposes determining a total vibration period by adding together the vibration periods of signal sections during which the amplitudes of the signal sections concerned are greater than a frequency band-specific threshold.

IPC 8 full level

G01H 1/00 (2006.01)

CPC (source: EP US)

G01H 1/003 (2013.01 - EP US); **G01H 17/00** (2013.01 - US); **G01M 15/14** (2013.01 - US)

Citation (search report)

See references of WO 2014032875A2

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)

WO 2014032875 A2 20140306; WO 2014032875 A3 20140612; CN 104620085 A 20150513; EP 2870439 A2 20150513; JP 2015529768 A 20151008; KR 20150047497 A 20150504; RU 2015111210 A 20161020; US 10241006 B2 20190326; US 2015204760 A1 20150723

DOCDB simple family (application)

EP 2013065732 W 20130725; CN 201380047002 A 20130725; EP 13745023 A 20130725; JP 2015528925 A 20130725; KR 20157004744 A 20130725; RU 2015111210 A 20130725; US 201314423715 A 20130725