

Title (en)

METHOD FOR CONTROLLING OPERATION OF A COMPRESSOR

Title (de)

VERFAHREN ZUR STEUERUNG DES BETRIEBS EINES KOMPRESSORS

Title (fr)

PROCEDE PERMETTANT DE COMMANDER LE FONCTIONNEMENT D'UN COMPRESSEUR

Publication

EP 1644640 A1 20060412 (DE)

Application

EP 04726849 A 20040410

Priority

- EP 2004003840 W 20040410
- DE 10330121 A 20030704

Abstract (en)

[origin: WO2005003561A1] Disclosed is a method for controlling operation of a compressor, according to which the compressor is shut off by a control device in order to prevent thermal damages when an estimated temperature value Ts calculated by said control device exceeds an upper threshold value Tmax while the compressor remains on or is allowed to be turned on when there is a need for compression and a lower threshold value Tmin is not reached. In order to be able to more accurately estimate the estimated temperature and increase the thermal availability of the compressor, the estimated temperature value Ts is indirectly and cyclically determined by means of a mathematical-physical model that characterizes the cooling and heating properties of the compressor.

IPC 1-7

F04B 49/06; **F04B 49/10**

IPC 8 full level

F04B 49/06 (2006.01); **F04B 49/10** (2006.01)

CPC (source: EP US)

F04B 49/065 (2013.01 - EP US); **F04B 49/10** (2013.01 - EP US); **F04B 2201/0801** (2013.01 - EP US); **F04B 2205/11** (2013.01 - EP US)

Citation (search report)

See references of WO 2005003561A1

Cited by

EP2395243A1; WO2012000703A1; WO2009153077A1; DE102008028781A1; DE102010017654A1; US9932978B2; DE102009003745A1

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005003561 A1 20050113; AT E357597 T1 20070415; DE 10330121 A1 20050203; DE 502004003291 D1 20070503; EP 1644640 A1 20060412; EP 1644640 B1 20070321; US 2007098564 A1 20070503; US 8152475 B2 20120410

DOCDB simple family (application)

EP 2004003840 W 20040410; AT 04726849 T 20040410; DE 10330121 A 20030704; DE 502004003291 T 20040410; EP 04726849 A 20040410; US 56142204 A 20040410