

Title (en)

METHOD FOR CONTROLLING A COMPRESSOR OF A REFRIGERATION SYSTEM, AND REFRIGERATION SYSTEM

Title (de)

VERFAHREN ZUR REGELUNG EINES VERDICHTERS EINER KÄLTEANLAGE SOWIE EINE KÄLTEANLAGE

Title (fr)

PROCÉDÉ DE RÉGLAGE D'UN COMPRESSEUR D'UNE INSTALLATION FRIGORIFIQUE ET INSTALLATION FRIGORIFIQUE

Publication

EP 2904336 A2 20150812 (DE)

Application

EP 13745660 A 20130805

Priority

- DE 102012107183 A 20120806
- DE 102012108983 A 20120924
- EP 2013066397 W 20130805

Abstract (en)

[origin: WO2014023694A2] The invention relates to a method for controlling a compressor of a refrigeration system, said compressor having a motor, wherein the temperature of the cooling point is controlled by means of switch-on and switch-off operation of the motor if the temperature in the compressor exceeds an upper temperature threshold and the temperature of the cooling point is controlled by means of continuously switched-on operation of the motor as soon as the motor has cooled down to a lower temperature threshold, wherein the control system converts a manipulated variable corresponding to the cooling demand of the cooling point into a switching signal for a valve, which switching signal causes clocked opening and closing of the valve, or a frequency converter controls the refrigerant flow through the compressor by controlling the voltage and the frequency of the motor, in that the frequency converter converts a manipulated variable corresponding to the cooling demand of a cooling point into a voltage and a frequency for the motor.

IPC 8 full level

F25B 49/02 (2006.01); **F25B 31/00** (2006.01); **F25B 41/04** (2006.01)

CPC (source: CN EP US)

F25B 31/006 (2013.01 - CN EP US); **F25B 41/20** (2021.01 - CN EP US); **F25B 41/22** (2021.01 - CN EP US); **F25B 49/022** (2013.01 - CN EP US); **F25B 49/025** (2013.01 - US); **H02H 7/008** (2013.01 - US); **F04B 2201/0402** (2013.01 - US); **F04B 2201/0403** (2013.01 - US); **F04B 2201/0801** (2013.01 - US); **F25B 2400/077** (2013.01 - US); **F25B 2600/02** (2013.01 - US); **F25B 2600/021** (2013.01 - EP US); **F25B 2600/0251** (2013.01 - EP US); **F25B 2600/0253** (2013.01 - EP US); **F25B 2600/026** (2013.01 - EP US); **F25B 2600/2521** (2013.01 - EP US); **F25B 2700/2115** (2013.01 - EP US); **G05B 2219/37429** (2013.01 - US); **Y02B 30/70** (2013.01 - EP US)

Citation (search report)

See references of WO 2014023694A2

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 2014023694 A2 20140213; **WO 2014023694 A3 20140530**; CN 104520658 A 20150415; CN 104520658 B 20160921; EP 2904336 A2 20150812; US 2015198361 A1 20150716; US 9746227 B2 20170829

DOCDB simple family (application)

EP 2013066397 W 20130805; CN 201380041745 A 20130805; EP 13745660 A 20130805; US 201314416837 A 20130805