

Title (en)
COMPRESSOR AND METHOD FOR THE ANGULAR SPEED CONTROL

Title (de)
KOMPRESSOR UND VERFAHREN ZU DESSEN DREHZAHLSSTEUERUNG

Title (fr)
COMPRESSEUR ET PROCÉDÉ DE COMMANDE DE LA VITESSE ANGULAIRE

Publication
EP 3322899 A1 20180523 (DE)

Application
EP 16745062 A 20160712

Priority

- DE 102015111287 A 20150713
- EP 2016066469 W 20160712

Abstract (en)
[origin: WO2017009307A1] The invention first relates to a method for controlling the rotational speed of a compressor, wherein the method is used in particular to control the rotational speed of a rotating compression element of the compressor. The invention further relates to a compressor, for example a compressor for generating compressed air. During operation, the compressor is to be operated at a rotational speed which has an average value that is at least as large as a minimum average value in order to ensure the function of the compressor. According to the method, a compressor target rotational speed which can change over time is determined, said target rotational speed being necessary for an output which is to be achieved by the compressor and which can be change over time. A time average of the target rotational speed which can change over time is determined. According to the invention, a lower rotational speed threshold is raised if the time average of the target rotational speed which can change over time is lower than the minimum average value of the rotational speed of the compressor.

IPC 8 full level
F04C 28/08 (2006.01); **F04C 18/16** (2006.01)

CPC (source: EP US)
F04C 18/16 (2013.01 - EP US); **F04C 28/08** (2013.01 - EP US); **F04C 29/026** (2013.01 - US)

Citation (search report)
See references of WO 2017009307A1

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 2017009307 A1 20170119; BR 112018000483 A2 20180911; BR 112018000483 B1 20230110; CA 2991806 A1 20170119; CN 107923401 A 20180417; CN 107923401 B 20191115; DE 102015111287 A1 20170119; DE 102015111287 B4 20180426; EP 3322899 A1 20180523; EP 3322899 B1 20190508; US 10815996 B2 20201027; US 2018202443 A1 20180719

DOCDB simple family (application)
EP 2016066469 W 20160712; BR 112018000483 A 20160712; CA 2991806 A 20160712; CN 201680041450 A 20160712; DE 102015111287 A 20150713; EP 16745062 A 20160712; US 201615742111 A 20160712