

Title (en)

METHOD OF CONTROLLING A STEAM TURBINE AND STEAM TURBINE PLANT

Title (de)

VERFAHREN ZUR STEUERUNG EINER DAMPFTURBINE UND DAMPFTURBINENANLAGE

Title (fr)

PROCÉDÉ DE COMMANDE D'UNE TURBINE À VAPEUR ET INSTALLATION DE TURBINE À VAPEUR

Publication

EP 3168434 B1 20210922 (EN)

Application

EP 16199217 A 20161116

Priority

IT UB20155614 A 20151116

Abstract (en)

[origin: EP3168434A1] A method of controlling a steam turbine comprises: defining a simplified model (M) of a rotor (5c) of a steam turbine in the form of a homogeneous and isotropic cylinder; determining a stress distribution in the rotor (5c) from parameters of the simplified model (M) and temperature values (ST) of steam (Q HP) supplied to the steam turbine (5); comparing the stress determined in the rotor (5c) with a stress threshold (\bar{A} TH); and controlling the steam turbine (5) on the basis of a comparison between the stress determined in the rotor (5c) and the stress threshold (\bar{A} TH).

IPC 8 full level

F01K 7/16 (2006.01); **F01D 19/02** (2006.01); **F01K 13/02** (2006.01)

CPC (source: CN EP)

F01D 19/00 (2013.01 - CN); **F01D 19/02** (2013.01 - CN EP); **F01K 7/165** (2013.01 - EP); **F01K 13/02** (2013.01 - EP); **F05D 2260/81** (2013.01 - EP)

Cited by

EP3974620A1; US11428115B2

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DOCDB simple family (publication)

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