Title (en)

FATIGUE CRACK GROWTH PREDICTION

Title (de)

VORHERSAGE DER AUSBREITUNG EINES ERMÜDUNGSRISSES

Title (fr)

PRÉDICTION DE CROISSANCE DE FISSURE DE FATIGUE

Publication

EP 3596439 A1 20200122 (EN)

Application

EP 18766900 A 20180306

Priority

- US 201762470539 P 20170313
- US 201815910412 A 20180302
- US 2018021011 W 20180306

Abstract (en)

[origin: WO2018169722A1] Systems and methods for predicting fatigue crack growth are provided. In one example embodiment, a method can include obtaining historical operational data associated with one or more rotatable structures of one or more machines, obtaining data indicative of fatigue crack size for the one or more rotatable structures, and constructing a machine-learned model correlating fatigue crack growth with operational data using a machine learning technique.

IPC 8 full level

G01M 15/14 (2006.01); **G06N 20/20** (2019.01)

CPC (source: EP US)

G01M 5/0033 (2013.01 - EP); **G01M 15/14** (2013.01 - EP); **G06F 15/76** (2013.01 - EP); **G06F 30/15** (2020.01 - EP); **G06F 30/27** (2020.01 - EP); **G06N 3/08** (2013.01 - EP); **G06N 5/01** (2023.01 - EP); **G06N 20/20** (2018.12 - EP US); G06F 2119/04 (2020.01 - EP)

Designated contracting state (EPC)

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