

Title (en)

METHOD FOR MONITORING THE QUALITY OF SCREWING OR DRILLING OPERATIONS INCLUDING UNSUPERVISED MACHINE LEARNING

Title (de)

VERFAHREN ZUR ÜBERWACHUNG DER QUALITÄT VON SCHRAUB- ODER BOHRVORGÄNGEN EINSCHLIESSLICH UNÜBERWACHTEM MASCHINENLERNEN

Title (fr)

PROCÉDÉ DE CONTRÔLE DE LA QUALITÉ D'OPÉRATIONS DE VISSAGE OU DE PERÇAGE INCLUANT UN APPRENTISSAGE AUTOMATIQUE NON SUPERVISÉ

Publication

**EP 4323846 A1 20240221 (FR)**

Application

**EP 22722836 A 20220414**

Priority

- FR 2103983 A 20210416
- EP 2022060114 W 20220414

Abstract (en)

[origin: WO2022219153A1] The present invention relates to a method for monitoring the quality of screwing or drilling operations performed by way of a tool, said method comprising unsupervised machine learning of a statistical model.

IPC 8 full level

**G05B 19/418** (2006.01); **G06N 20/00** (2019.01); **G07C 3/00** (2006.01)

CPC (source: EP US)

**B25F 5/00** (2013.01 - US); **G05B 19/41875** (2013.01 - EP); **G06N 7/01** (2023.01 - EP); **G06N 20/00** (2019.01 - EP US); **G05B 2219/32177** (2013.01 - EP US); **G05B 2219/32186** (2013.01 - EP); **G05B 2219/32193** (2013.01 - EP); **G07C 3/005** (2013.01 - EP)

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2022219153 A1 20221020**; CN 117355803 A 20240105; EP 4323846 A1 20240221; FR 3122013 A1 20221021; US 2024198506 A1 20240620

DOCDB simple family (application)

**EP 2022060114 W 20220414**; CN 202280037027 A 20220414; EP 22722836 A 20220414; FR 2103983 A 20210416; US 202218555409 A 20220414