

Title (en)

METHOD FOR DETERMINING A WEAR FOR A SYSTEM OF RODS ON OF A GROUND BORING DEVICE

Title (de)

VERFAHREN ZUM BESTIMMEN EINES VERSCHLEISSES EINES GESTÄNGES EINER ERDBOHRVORRICHTUNG

Title (fr)

PROCÉDÉ DE DÉTERMINATION DE L'USURE D'UNE TIGE D'UN DISPOSITIF DE FORAGE DU SOL

Publication

EP 3690185 B1 20211222 (DE)

Application

EP 20165948 A 20180625

Priority

- DE 102017118853 A 20170818
- EP 18179478 A 20180625

Abstract (en)

[origin: US2019055831A1] A method for determining the wear on a linkage of a ground drilling device includes detecting a bending load of the linkage. The bending load is used to carry out a service life calculation.

IPC 8 full level

E21B 47/00 (2012.01); **E21B 47/01** (2012.01)

CPC (source: EP US)

E21B 47/007 (2020.05 - EP US); **E21B 47/01** (2013.01 - EP US); **E21B 47/017** (2020.05 - EP US)

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

DOCDB simple family (publication)

EP 3444433 A1 20190220; EP 3444433 B1 20200617; AU 2018217302 A1 20190307; AU 2018217302 B2 20200514; DE 102017118853 A1 20190221; EP 3690185 A1 20200805; EP 3690185 B1 20211222; US 11566512 B2 20230131; US 2019055831 A1 20190221

DOCDB simple family (application)

EP 18179478 A 20180625; AU 2018217302 A 20180817; DE 102017118853 A 20170818; EP 20165948 A 20180625; US 201816103216 A 20180814