

Title (en)

METHOD FOR OPERATING A HANDHELD POWER TOOL

Title (de)

VERFAHREN ZUM BETRIEB EINER HANDWERKZEUGMASCHINE

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UN OUTIL ÉLECTRIQUE PORTATIF

Publication

EP 4003654 A1 20220601 (DE)

Application

EP 20739620 A 20200708

Priority

- DE 102019211305 A 20190730
- EP 2020069289 W 20200708

Abstract (en)

[origin: WO2021018538A1] The invention relates to a method for operating a handheld power tool (100), said hand-held power tool (100) comprising an electric motor (180), the method comprising the method steps: S1 providing at least one model signal waveform (240), wherein the model signal waveform (240) can be associated with a work progress of the handheld power tool (100); S2 determining a signal of an operating variable (200) of the electric motor (180); S3 comparing the signal of the operating variable (200) with the model signal waveform (240) and determining a conformity evaluation on the basis of said comparison; S4 identifying the work progress at least partially using the conformity evaluation determined in method step S3; S5 executing a first routine of the handheld power tool (100) at least partially on the basis of the work progress identified in method step S4. The invention also relates to a handheld power tool, in particular an impact driver, comprising an electric motor and a control unit, wherein the control unit is designed to carry out a method according to the invention.

IPC 8 full level

B25B 23/14 (2006.01); **B25B 21/02** (2006.01); **B25B 23/147** (2006.01)

CPC (source: CN EP KR US)

B25B 21/02 (2013.01 - CN KR US); **B25B 23/1405** (2013.01 - CN EP KR US); **B25B 23/1475** (2013.01 - CN EP KR US); **B25F 5/02** (2013.01 - US); **G05B 19/4155** (2013.01 - KR); **B25B 21/02** (2013.01 - EP); **B25D 2250/221** (2013.01 - US); **B25D 2250/255** (2013.01 - US)

Citation (search report)

See references of WO 2021018538A1

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 2021018538 A1 20210204; CN 114502326 A 20220513; DE 102019211305 A1 20210204; EP 4003654 A1 20220601; JP 2022542895 A 20221007; JP 7350978 B2 20230926; KR 20220042375 A 20220405; US 2022281082 A1 20220908

DOCDB simple family (application)

EP 2020069289 W 20200708; CN 202080068844 A 20200708; DE 102019211305 A 20190730; EP 20739620 A 20200708; JP 2022504664 A 20200708; KR 20227004747 A 20200708; US 202017631245 A 20200708