

Title (en)
CONTROL METHOD FOR A PERCUSSIVE HAND-HELD POWER TOOL

Title (de)
STEUERUNGSVERFAHREN FÜR EINE SCHLAGENDE HANDWERKZEUGMASCHINE

Title (fr)
PROCÉDÉ DE COMMANDE POUR UNE MACHINE-OUTIL PORTATIVE À PERCUSSION

Publication
EP 3554765 A1 20191023 (DE)

Application
EP 17808505 A 20171206

Priority
• EP 16203920 A 20161214
• EP 2017081634 W 20171206

Abstract (en)
[origin: WO2018108658A1] The invention relates to a control method for a percussive hand-held power tool (1), said method comprising the following steps: detection of a switching state of an operating switch (12), detection of a temperature T using a temperature sensor (22), and activation of an electropneumatic striker (5) in response to an actuation of the operating switch (12), an exciter (13) of the electropneumatic striker (5) being moved back and forth along a working axis (3) with a repetition rate R, whereby a striker (14) coupled to the exciter (13) by means of a pneumatic chamber (16) is moved therewith. When the temperature T is higher than a threshold temperature T_c, the repetition rate R is continuously increased from rest to a nominal value (21). The length of time required to reach the nominal value (21) is shorter than 10 cycles. When the temperature T is lower than the threshold temperature T_c, the length of time required to reach the nominal value (21) is longer than 200 cycles.

IPC 8 full level
B25D 11/00 (2006.01)

CPC (source: EP KR US)
B25D 11/00 (2013.01 - EP KR); **B25D 11/06** (2013.01 - US); **B25D 2216/0015** (2013.01 - US); **B25D 2250/201** (2013.01 - EP); **B25D 2250/221** (2013.01 - EP KR 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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3335837 A1 20180620; CN 110072672 A 20190730; CN 110072672 B 20220506; EP 3554765 A1 20191023; EP 3554765 B1 20220601; JP 2020500725 A 20200116; JP 6845935 B2 20210324; KR 102406100 B1 20220610; KR 20190093645 A 20190809; US 12115635 B2 20241015; US 2019314970 A1 20191017; WO 2018108658 A1 20180621

DOCDB simple family (application)
EP 16203920 A 20161214; CN 201780077004 A 20171206; EP 17808505 A 20171206; EP 2017081634 W 20171206; JP 2019529852 A 20171206; KR 20197020092 A 20171206; US 201716469008 A 20171206