

Title (en)  
METHOD FOR OPERATING A MACHINE TOOL, AND MACHINE TOOL

Title (de)  
VERFAHREN ZUM BETREIBEN EINER WERKZEUGMASCHINE UND WERKZEUGMASCHINE

Title (fr)  
DISPOSITIF POUR FAIRE FONCTIONNER UNE MACHINE-OUTIL ET MACHINE-OUTIL

Publication  
**EP 3990224 A1 20220504 (DE)**

Application  
**EP 20732915 A 20200617**

Priority  
• EP 19182847 A 20190627  
• EP 2020066749 W 20200617

Abstract (en)  
[origin: WO2020260090A1] The invention relates to a method for operating a machine tool comprising a battery and an electric motor which is designed to rotationally drive an output shaft that can be coupled to a tool. A controller for actuating the electric motor and a device for ascertaining a parameter are provided, wherein the machine tool can be operated in a first operating mode and a second operating mode, and the machine tool is converted from the first operating mode to the second operating mode if the parameter ascertained by the device exceeds or falls below a defined threshold. The electric motor is actuated in the second operating mode with a current strength profile, said current strength profile comprising first current pulses (10) and second current pulses (11). The level of the maximum current strength (A1) of the first current pulses (10) is higher than the level of the maximum current strength (A2) of the second current pulses (11). The invention additionally relates to a machine tool which can be operated using such a method.

IPC 8 full level  
**B25B 23/145** (2006.01); **B25B 23/147** (2006.01); **B25F 5/00** (2006.01)

CPC (source: CN EP US)  
**B25B 23/1456** (2013.01 - CN EP); **B25B 23/147** (2013.01 - CN EP US); **B25B 23/1475** (2013.01 - CN EP); **B25F 5/00** (2013.01 - CN EP); **B25F 5/001** (2013.01 - US)

Citation (search report)  
See references of WO 2020260090A1

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 3756826 A1 20201230**; CN 113811423 A 20211217; CN 113811423 B 20230512; EP 3990224 A1 20220504; EP 3990224 B1 20230802; US 2022226974 A1 20220721; WO 2020260090 A1 20201230

DOCDB simple family (application)  
**EP 19182847 A 20190627**; CN 202080035141 A 20200617; EP 2020066749 W 20200617; EP 20732915 A 20200617; US 202017615198 A 20200617