

Title (en)  
METHOD FOR MONITORING A MACHINE TOOL, MONITORING APPARATUS, MACHINE TOOL AND COMPUTER PROGRAM PRODUCT

Title (de)  
VERFAHREN ZUR ÜBERWACHUNG EINER WERKZEUGMASCHINE, ÜBERWACHUNGSVORRICHTUNG, WERKZEUGMASCHINE UND COMPUTERPROGRAMMPRODUKT

Title (fr)  
PROCÉDÉ DE SURVEILLANCE D'UNE MACHINE-OUTIL, DISPOSITIF DE SURVEILLANCE, MACHINE-OUTIL ET PRODUIT PROGRAMME INFORMATIQUE

Publication  
**EP 3827317 A1 20210602 (DE)**

Application  
**EP 19749283 A 20190725**

Priority  
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Abstract (en)  
[origin: WO2020021044A1] A method for monitoring a machine tool is described, in which the movement of a tool is numerically controlled with the aid of a control computer. The method comprises the following method steps: - a reference measurement curve (38) of a monitoring measurement variable, which is related to the movement of the tool, is recorded during a reference movement of the tool controlled by a reference desired value curve (37), - a machining measurement curve (32) of the monitoring measurement variable is recorded during a machining movement of the tool (3) controlled by a machining desired value curve (22), wherein a workpiece is machined by the tool with the machining movement, - the reference measurement curve (38) and the machining measurement curve (32) are temporally related on the basis of the reference desired value curve (37) and the machining desired value curve (22), and - a differential curve (39) of the reference measurement curve (38) and the machining measurement curve (32) is formed and the differential curve (39) is monitored for the exceeding of predetermined limit values. The method can be carried out with the aid of an accordingly configured monitoring apparatus or a machine tool and can be implemented in the form of a computer program product.

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
See references of WO 2020021044A1

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