

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

Title (de)
WERKZEUGMASCHINE UND VERFAHREN ZUM BETREIBEN EINER WERKZEUGMASCHINE

Title (fr)
MACHINE-OUTIL ET PROCÉDÉ D'ACTIONNEMENT D'UNE MACHINE-OUTIL

Publication
EP 4161723 A1 20230412 (DE)

Application
EP 21731961 A 20210607

Priority
• DE 102020115302 A 20200609
• EP 2021065193 W 20210607

Abstract (en)
[origin: WO2021249958A1] Machine tool comprising a machine frame (10), a workpiece spindle unit (40), arranged on the machine frame (10), having a workpiece spindle (44) which is driven about a spindle axis (46) by a spindle drive and in which a workpiece (W) is received so as to be rotatable about the spindle axis (46), and at least one tool spindle unit (90), arranged on the machine frame (10), having a tool (98) that is driven in rotation about a tool spindle axis (96) by means of a tool drive, wherein the workpiece spindle unit (40) and the tool spindle unit (90) are driven in a manner controlled by means of a machine controller (120) and are movable relative to one another at least in the direction of a Z axis, characterized in that, to produce at least one continuous recessed structure (V) in the workpiece (W), said recessed structure (V) extending about the workpiece spindle axis (46) with a first profile component, the rotating tool (98) has at least one cutting edge (SI) that extends around the tool spindle axis (96) and is radially on the outside and is effective radially on the outside.

IPC 8 full level
B23B 5/48 (2006.01); **B23C 3/32** (2006.01); **B23G 1/32** (2006.01)

CPC (source: EP)
B23B 5/48 (2013.01); **B23C 3/32** (2013.01); **B23G 1/32** (2013.01); **B23G 2210/08** (2013.01); **B23G 2210/16** (2013.01); **B23G 2210/48** (2013.01)

Citation (search report)
See references of WO 2021249958A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102020115302 A1 20211209; EP 4161723 A1 20230412; WO 2021249958 A1 20211216

DOCDB simple family (application)
DE 102020115302 A 20200609; EP 2021065193 W 20210607; EP 21731961 A 20210607