

Title (en)
NUMERICALLY CONTROLLED MACHINE TOOL

Title (de)
NUMERISCH GESTEUERTE WERKZEUGMASCHINE

Title (fr)
MACHINE-OUTIL À COMMANDE NUMÉRIQUE

Publication
EP 2162806 A1 20100317 (DE)

Application
EP 08774025 A 20080718

Priority

- EP 2008005918 W 20080718
- DE 102007035121 A 20070727

Abstract (en)
[origin: WO2009015789A1] The invention relates to a numerically controlled machine tool (10) having at least five driven machine axes for the positioning and orientation of a tool (18) of the machine tool (10) relative to a workpiece (16) to be machined by the tool (18), and a closed control circuit separate from a controller for adjusting the machine axis positions and a controller or regulating unit of a main drive that may be present, the control circuit comprising an actuator (24) to be actuated independently of the machine axes and the main drive that may be present for moving the tool (18) relative to the workpiece (16), and a sensor (38) for detecting the actual value of a machining-relevant control variable, and which serves to regulate the control variable to a predetermined target value by actuating the actuator (24). The invention further relates to a method for machining a workpiece (16) by means of a tool (18) of a numerically controlled machine tool (10).

IPC 8 full level
B23K 20/12 (2006.01); **G05B 19/19** (2006.01)

CPC (source: EP)
B23K 20/123 (2013.01); **B23K 20/125** (2013.01); **G05B 19/19** (2013.01); **G05B 2219/42092** (2013.01); **G05B 2219/42263** (2013.01);
G05B 2219/45146 (2013.01)

Citation (search report)
See references of WO 2009015789A1

Citation (examination)

- JP H10249552 A 19980922 - AMADA CO LTD, et al
- DE 19708894 A1 19981008 - PFAUTER HERMANN GMBH CO [DE]
- ZAEH M F ET AL: "FRICTION AIR WELDING USING NC MILLING MACHINES", WELDING AND CUTTING, DVS, vol. 3, no. 4, 1 January 2004 (2004-01-01), pages 220 - 223, XP001229066, ISSN: 1612-3433

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2009015789 A1 20090205; EP 2162806 A1 20100317

DOCDB simple family (application)
EP 2008005918 W 20080718; EP 08774025 A 20080718