

Title (en)

Method for machining of workpieces with curved surfaces, in particular for turbine blades, machine tool

Title (de)

Verfahren zum spanabhebenden Bearbeiten von Werkstücken mit gekrümmten Oberflächen, insbesondere zum Schleifen von Turbinenschaufeln, Werkzeugmaschine

Title (fr)

Procédé d'usinage d'objets avec des surfaces courbées, en particulier des pelles de turbine, machine-outil

Publication

EP 1757405 A1 20070228 (DE)

Application

EP 06017125 A 20060817

Priority

DE 102005041031 A 20050824

Abstract (en)

The method involves moving a work-piece along an axis (58) and simultaneously rotating the work-piece around another axis (64), where the axis (64) incorporates a finite angle with the axis (58). The work-piece is moved along a third axis (26), where the axis (26) incorporates the finite angle with the axis (58) and the axis (64), and the work-piece is moved in fast oscillating movement along the axis (58) in a direction tangential to the processing of the work-piece. Independent claims are also included for the following: (1) a machine tool for machining a work-piece (2) a programming system for evaluating programming parameters.

IPC 8 full level

B24B 19/14 (2006.01)

CPC (source: EP)

B24B 19/14 (2013.01)

Citation (applicant)

- EP 0981419 B1 20020206 - JONES & SHIPMAN PLC [GB]
- WO 9315877 A1 19930819 - PPV VERWALTUNGS AG [CH]

Citation (search report)

[DA] DE 3625565 A1 19880303 - HAUNI WERKE KOERBER & CO KG [DE]

Cited by

CN103317415A; CN111360552A; CN113245971A; CN113977279A; CN112355864A; CN115070457A; CN107263254A; CN111890148A; CN110561196A; CN112643467A; CN116652794A; WO2010060402A1; WO2021147359A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1757405 A1 20070228; EP 1757405 B1 20091007; AT E444832 T1 20091015; DE 102005041031 A1 20070301; DE 502006005018 D1 20091119; ES 2331709 T3 20100113

DOCDB simple family (application)

EP 06017125 A 20060817; AT 06017125 T 20060817; DE 102005041031 A 20050824; DE 502006005018 T 20060817; ES 06017125 T 20060817