

Title (en)

Method and device for finishing a workpiece surface

Title (de)

Verfahren und Vorrichtung zur Finishbearbeitung einer Werkstückoberfläche

Title (fr)

Procédé et dispositif de finition d'une surface de pièce usinée

Publication

EP 2650081 B1 20131127 (DE)

Application

EP 12164131 A 20120413

Priority

EP 12164131 A 20120413

Abstract (en)

[origin: EP2650081A1] The method involves moving a workpiece surface (24) relative to an effective surface of a finish tool (26) in a rotation direction at a workpiece axis (20). A reciprocating additive movement in a direction perpendicular to the workpiece surface is superimposed to a relative movement of the workpiece surface and the effective surface, where an oscillation frequency of the additive movement is lower than 20 kHz. The workpiece surface and the effective surface are moved not relative to each other in a direction parallel to the workpiece axis. An independent claim is also included for a device for finish processing a workpiece surface by a finish tool.

IPC 8 full level

B24B 1/04 (2006.01); **B24B 5/42** (2006.01); **B24B 35/00** (2006.01)

CPC (source: EP KR US)

B24B 1/04 (2013.01 - EP US); **B24B 5/42** (2013.01 - EP US); **B24B 21/00** (2013.01 - KR); **B24B 21/02** (2013.01 - EP US); **B24B 35/00** (2013.01 - EP KR US)

Cited by

DE102014203018A1; DE102014117398B3; EP4316709A1; DE102016107762B3; EP3536430A1; EP3536451A1; DE102014203018B4

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

DOCDB simple family (publication)

EP 2650081 A1 20131016; **EP 2650081 B1 20131127**; BR 102013008817 A2 20150623; BR 102013008817 B1 20220111; CN 103372791 A 20131030; CN 103372791 B 20180313; IN 640DE2013 A 20150626; KR 20130116191 A 20131023; US 2014134925 A1 20140515

DOCDB simple family (application)

EP 12164131 A 20120413; BR 102013008817 A 20130411; CN 201310116184 A 20130403; IN 640DE2013 A 20130305; KR 20130039846 A 20130411; US 201313861955 A 20130412