

Title (en)

FINISHING MACHINE FOR FINISH MACHINING OF CURVED WORKPIECE SURFACES ON WORKPIECES

Title (de)

FINISHMASCHINE ZUR FINISHBEARBEITUNG GEKRÜMMTER WERKSTÜCKOBERFLÄCHEN AN WERKSTÜCKEN

Title (fr)

MACHINE DE FINITION DE SURFACES COURBES DE PIÈCES À USINER

Publication

EP 2750829 B2 20200101 (DE)

Application

EP 12751076 A 20120828

Priority

- DE 102011081918 A 20110831
- EP 2012066687 W 20120828

Abstract (en)

[origin: WO2013030194A1] A finishing machine (100) for finish machining of curved workpiece surfaces on workpieces (200) has a roundtable (110) that can be rotated cyclically about a roundtable axis (112), as well as a plurality of workpiece spindles (120, 130, 140, 150), which are arranged at a specified angular pitch on the roundtable. Each workpiece spindle is rotatable about a spindle axis by means of a spindle drive and has a workpiece holder for holding a workpiece in such a manner that the workpiece held by the workpiece holder can be rotated about a workpiece axis by rotation of the workpiece spindle. The finishing machine additionally has at least one finishing unit comprising a pressing device for pressing an abrasive-studded machining tool against a curved peripheral surface of the workpiece with a pressing force directed radially to the workpiece axis. A workpiece held by the workpiece holder can be moved into a machining position on the finishing unit by rotation of the roundtable and, after completion of the finish machining, can be moved from this machining position to a subsequent workstation. A device for active support of the workpiece against transverse forces is provided on at least one workpiece section with axial separation from the workpiece holder.

IPC 8 full level

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CPC (source: CN EP)

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Citation (opposition)

Opponent :

- DE 19607778 C2 20011011 - NAGEL MASCH WERKZEUG [DE]
- DE 102007051047 A1 20090423 - NAGEL MASCH WERKZEUG [DE]
- EP 1506839 A1 20050216 - SUPFINA GRIESHABER GMBH & CO [DE]
- DE 102010060471 A1 20120412 - THIELENHAUS TECHNOLOGIES GMBH [DE]
- EP 1741514 A1 20070110 - SUPFINA GRIESHABER GMBH & CO [DE]

Designated contracting state (EPC)

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DOCDB simple family (publication)

DE 102011081918 A1 20130228; CN 104039503 A 20140910; CN 104039503 B 20170815; EP 2750829 A1 20140709; EP 2750829 B1 20160420; EP 2750829 B2 20200101; WO 2013030194 A1 20130307

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