

Title (en)

Hand-held machine tool for sanding, grinding or polishing a workpiece

Title (de)

Handwerkzeugmaschine zum Schmirgeln, Schleifen oder Polieren eines Werkstücks

Title (fr)

Machine-outil portative de ponçage, meulage ou polissage d'une pièce

Publication

EP 2636483 A1 20130911 (DE)

Application

EP 12158590 A 20120308

Priority

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Abstract (en)

The invention refers to a hand-held machine tool (1) for sanding, grinding or polishing a workpiece (10), the tool (1) comprising - a motor with a motor shaft adapted for performing a rotational movement around an axis of rotation, - a working element (2) adapted for performing an orbital movement (3), and - means (21, 22, 23) for transforming the rotational movement of the shaft into the orbital movement (3) of the working element (2), - the working element (2) comprising a planar base plate (6) made of a rigid material, a planar absorption plate (7) attached to the base plate (6) and made of a resilient material, and an abrasive or polishing sheet (8) attached to the absorption plate (7). The planar base plate (6) seen in a plan view has at least three external corners (9) allowing sanding, grinding or polishing operation in a hard-to-reach internal corner (15) or along an inner edge (14) of the workpiece (10). In order to avoid a damage of the workpiece (10) during use of the tool (1), it is suggested that the planar absorption plate (7) has at least one bumper element (16) integrally formed therewith and externally covering the base plate (6) in the range of at least one of its external corners (9), in order to avoid the workpiece (10) being contacted and damaged by the base plate (6) during its orbital movement (3) while sanding, grinding or polishing the workpiece (10) in its hard-to-reach internal corner (15) or along its inner edge (14).

IPC 8 full level

B24B 23/03 (2006.01)

CPC (source: EP)

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Citation (applicant)

WO 02098607 A1 20021212 - BOSCH GMBH ROBERT [DE], et al

Citation (search report)

- [XY] DE 9320393 U1 19940616 - BOSCH GMBH ROBERT [DE]
- [Y] DE 20016263 U1 20011018 - KOLTHOFF & CO [CH]
- [AD] WO 02098607 A1 20021212 - BOSCH GMBH ROBERT [DE], et al

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US11518000B2

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

DOCDB simple family (publication)

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