

Title (en)

Hand-held machine tool for sanding or polishing a workpiece

Title (de)

Tragbares Maschinenwerkzeug zum Schleifen oder Polieren eines Werkstücks

Title (fr)

Machine-outil portative de ponçage ou de polissage d'une pièce à usiner

Publication

EP 2735402 A1 20140528 (EN)

Application

EP 12194112 A 20121123

Priority

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Abstract (en)

The invention refers to a hand-held machine tool (1) for sanding or polishing a workpiece. The machine tool (1) comprises a housing (2) and a working element (3) adapted for performing an orbital movement in respect to the housing (2). In the housing (2) there are a motor (4) with a motor shaft (5) adapted for performing a rotational movement around an axis of rotation (6), and means (7, 8) for transforming the rotational movement of the shaft (5) into the orbital movement of the working element (3). In order to allow a fast and easy variation of a rotational position of the working element (3) it is suggested that the working element (3) is supported in respect to the machine tool's housing (2) in order to freely rotate around a longitudinal axis (9), that the housing (2) comprises a plurality of magnetic elements (16) facing the working element (3) and that the working element (3) comprises a plurality of corresponding magnetic elements (17) facing the housing (2). The magnetic elements (16, 17) of the housing (2) and the working element (3), respectively, are adapted to interact with one another, in order to hold the working element (3) in a desired rotational position in respect to the housing (2) by means of magnetic force.

IPC 8 full level

B24B 23/04 (2006.01); **B24B 45/00** (2006.01)

CPC (source: EP)

B24B 23/04 (2013.01); **B24B 45/006** (2013.01)

Citation (search report)

- [X] DE 4011761 A1 19911017 - TENTEC GMBH WERKZEUGE MASCHINE [DE]
- [X] EP 1552904 A1 20050713 - RUEGGEBERG AUGUST GMBH & CO KG [DE]
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- [X] FR 2536688 A1 19840601 - FIMA SNC [IT]

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Designated contracting state (EPC)

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