

Title (en)

HAND HELD OR HAND GUIDED GRINDING OR POLISHING MACHINE TOOL

Title (de)

HANDGEHALTENES ODER HANDGEFÜHRTES SCHLEIF- ODER POLIERMASCHINENWERKZEUG

Title (fr)

MACHINE OUTIL DE MEULAGE OU DE POLISSAGE GUIDÉE À LA MAIN OU PORTATIVE

Publication

**EP 3238878 A1 20171101 (EN)**

Application

**EP 16167324 A 20160427**

Priority

EP 16167324 A 20160427

Abstract (en)

The invention refers to a hand held or hand guided grinding or polishing machine tool (1), the tool (1) comprising: - a working element holder (12) having a first connection element (36) for connecting the working element holder (12) to a disk-like working element (9) and a center axis (14), - the first connection element (36) for connecting the working element holder (12) to the working element (9) having a rotational axis (37) running parallel to the working element holder's (12) center axis (14), - the working element holder (12) further having a second connection element (15) for connecting the working element holder (12) to a motor shaft (22) of the grinding or polishing machine tool (1) in a torque proof manner, and - the second connection element (15) for connecting the working element holder (12) to the motor shaft (22) having a longitudinal axis (16) running parallel to the first connection element's (36) rotational axis (37) and to the working element holder's (12) center axis (14). In order to provide for a larger orbit of the working element (9) and to reduce vibrations of the tool (1) it is suggested that all three axes (14, 16, 37) are spaced apart from one another by predefined distances.

IPC 8 full level

**B24B 23/03** (2006.01); **B24B 23/04** (2006.01)

CPC (source: CN EP US)

**B24B 23/02** (2013.01 - CN EP US); **B24B 23/03** (2013.01 - EP US); **B24B 45/00** (2013.01 - CN); **B24B 47/12** (2013.01 - CN EP US)

Citation (search report)

- [X] JP 2001179590 A 20010703 - THREE M INNOVATIVE PROPERTIES
- [X] WO 2014119133 A1 20140807 - MAKITA CORP [JP]
- [X] EP 2529887 A2 20121205 - BENZ GMBH WERKZEUGSYSTEME [DE]
- [X] US 5993305 A 19991130 - CHU ERIC [TW]
- [A] US 2005197052 A1 20050908 - LAMPKA MARK [US], et al

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)

**EP 3238878 A1 20171101**; CN 107309753 A 20171103; US 2017312877 A1 20171102

DOCDB simple family (application)

**EP 16167324 A 20160427**; CN 201710270076 A 20170424; US 201715493368 A 20170421