

Title (en)
HANDHELD ELECTRIC MACHINE TOOL

Title (de)
HANDGEHALTENE ELEKTROWERKZEUGMASCHINE

Title (fr)
MACHINE-OUTIL ÉLECTRIQUE PORTATIVE

Publication
EP 2384259 B1 20130626 (DE)

Application
EP 09795760 A 20091217

Priority
• EP 2009067375 W 20091217
• DE 102009000030 A 20090105
• DE 102009027688 A 20090714

Abstract (en)
[origin: WO2010076230A1] The invention relates to a handheld electric machine tool (10) comprising - a housing (20) having a grip area (40), - a tool area (50) for a tool (60) that can be driven in a linear and/or oscillating manner, - an operating element (30) on the housing side for activation of the tool (60) and/or the electric machine tool (10) by the user, - a drive unit (80) arranged in the housing (20) for producing a working movement of the tool (60), - an electronic unit (200) arranged in the housing (20) for sending at least control and/or regulation signals to the drive unit (80), - an operating voltage unit (90) for providing an electrical DC voltage, wherein the drive unit (80) comprises at least one excitation actuator (100) having a volume of excitation-active material, which - is supplied electrically by the operating voltage unit (90) during operation, - is controlled or regulated by the electronic unit (200). It is proposed to design the electronic unit (200) to operate the at least one excitation actuator (100) at a resonance frequency (f_{res}).

IPC 8 full level
B24B 1/04 (2006.01)

CPC (source: EP US)
B24B 1/04 (2013.01 - EP US); **B24B 23/00** (2013.01 - EP US)

Cited by
EP2841237B1

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102009027688 A1 20100708; CN 102271865 A 20111207; CN 102271865 B 20151125; EP 2384259 A1 20111109; EP 2384259 B1 20130626; EP 2644320 A1 20131002; RU 2011132474 A 20130210; US 2012045976 A1 20120223; WO 2010076230 A1 20100708

DOCDB simple family (application)
DE 102009027688 A 20090714; CN 200980153937 A 20091217; EP 09795760 A 20091217; EP 13173324 A 20091217; EP 2009067375 W 20091217; RU 2011132474 A 20091217; US 200913142696 A 20091217