

Title (en)
HAND-HELD MACHINE TOOL COMPRISING A DRIVE MOTOR

Title (de)
HAND-WERKZEUGMASCHINE MIT EINEM ANTRIEBSMOTOR

Title (fr)
MACHINE-OUTIL PORTATIVE POURVUE D'UN MOTEUR D'ENTRAÎNEMENT

Publication
EP 3442754 B1 20200527 (DE)

Application
EP 17717656 A 20170410

Priority
• DE 102016106557 A 20160411
• EP 2017058507 W 20170410

Abstract (en)
[origin: WO2017178410A1] The invention relates to a hand-held machine tool, in particular a sanding machine, comprising a rod-type handle element (12) for the user to grip and a processing head (11) which is moveably mounted on the handle element (12) by means of a joint assembly (13). The processing head has an electric drive motor (100) for driving a tool holder (19) provided for holding a processing tool (20) and a speed-reducing gearbox (80) between the drive motor (100) and the tool holder (19), said gearbox being designed to achieve a reduction in speed of an output (81) of the drive motor (100) relative to a speed of the tool holder (19). According to the invention, the drive motor (100) is a brushless motor and a power supply system (40) for the drive motor (100) is arranged at a distance from the drive motor (100) on the handle element (12), the power supply system being connected to the drive motor (100) by means of a cable arrangement (41).

IPC 8 full level
B25F 5/00 (2006.01); **B24B 7/18** (2006.01); **B24B 47/12** (2006.01); **B25F 5/02** (2006.01)

CPC (source: EP KR US)
B24B 7/184 (2013.01 - KR); **B24B 23/02** (2013.01 - KR); **B24B 47/12** (2013.01 - KR); **B25F 5/00** (2013.01 - EP US); **B25F 5/001** (2013.01 - US); **B25F 5/008** (2013.01 - EP KR US); **B25F 5/02** (2013.01 - EP KR US); **B24B 7/184** (2013.01 - EP US); **B24B 7/186** (2013.01 - EP US); **B24B 47/12** (2013.01 - EP US)

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

DOCDB simple family (publication)
DE 102016106557 A1 20171012; AU 2017249373 A1 20181101; AU 2017249373 B2 20220707; CN 109311146 A 20190205; EP 3442754 A1 20190220; EP 3442754 B1 20200527; JP 2019515806 A 20190613; JP 7110112 B2 20220801; KR 102341675 B1 20211220; KR 20180132767 A 20181212; US 11040439 B2 20210622; US 11707828 B2 20230725; US 2019091848 A1 20190328; US 2021268635 A1 20210902; WO 2017178410 A1 20171019

DOCDB simple family (application)
DE 102016106557 A 20160411; AU 2017249373 A 20170410; CN 201780022833 A 20170410; EP 17717656 A 20170410; EP 2017058507 W 20170410; JP 2018554503 A 20170410; KR 20187031493 A 20170410; US 201716086516 A 20170410; US 202117323162 A 20210518