

Title (en)  
POLE SANDER

Title (de)  
STABSCHLEIFMASCHINE

Title (fr)  
PONCEUSE À MANCHE

Publication  
**EP 3812092 A2 20210428 (EN)**

Application  
**EP 20200124 A 20201005**

Priority  
• GB 201915324 A 20191023  
• GB 201919261 A 20191223  
• GB 201919262 A 20191223

Abstract (en)  
A handheld pole sander for performing different surface machining treatments including but not limited to sanding, polishing, grinding or rubbing a work surface comprising: an elongate body (102) having two ends; a sanding head (100) attached via a pivot mechanism (110) to a first end of the elongate body (102); an electric motor (114) mounted on the sanding head, the electric motor (114) being electrically controlled by control electronics (144) which provides electronic control signals to activate the motor (114); wherein the sanding head (100) comprises: a hood (112) comprising a plate; and an output spindle (118) which projects from the hood (112); a circular inner wall (166) formed on the underside of the plate in close proximity to the edge of the plate wherein the inner wall and underside of the plate to form a chamber (166) into which the output spindle (118) projects from the hood (112); wherein the electric motor (114), when activated, rotatingly drives the output spindle (118); wherein there is provided a rear housing (104) mounted on the end of the elongate body (102) remote from the sanding head; wherein the control electronics (144) for the electric motor (114) are mounted inside of the rear housing (104); wherein a wall (178) mounted on top of the plate which forms a tubular passageway from an aperture (130) formed through the plate (130) to an opening; wherein the elongate body comprises a first passageway (154) which extends through the length of the elongate body and which is used to transport air through the length of the elongate body (102); wherein a flexible pipe (128) connects between a first end of the first passageway at the first end of the elongate body (102) and the opening to connect the chamber (166) to the first passageway; wherein the motor is connected to the control electronics via an electric cable (146) characterised in that a part of the electric cable locates against the side of the flexible pipe (128).

IPC 8 full level  
**B24B 7/18** (2006.01)

CPC (source: EP US)  
**B24B 7/184** (2013.01 - EP US); **B24B 23/005** (2013.01 - US); **B24B 23/02** (2013.01 - US)

Citation (applicant)  
• EP 0727281 A1 19960821 - PORTER CABLE CORP [US]  
• EP 2033738 A2 20090311 - FLEX ELEKTROWERKZEUGE GMBH [DE]  
• DE 102014103019 A1 20150910 - FLEX ELEKTROWERKZEUGE GMBH [DE]  
• WO 2014086873 A1 20140612 - FLEX ELEKTROWERKZEUGE GMBH [DE]  
• EP 3083139 A1 20161026 - FLEX ELEKTROWERKZEUGE GMBH [DE]  
• DE 102014112355 A1 20160303 - FLEX ELEKTROWERKZEUGE GMBH [DE]

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 3812092 A2 20210428; EP 3812092 A3 20210505; US 2021122001 A1 20210429**

DOCDB simple family (application)  
**EP 20200124 A 20201005; US 202017075884 A 20201021**