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(54) **POLE SANDER**

(57) 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).

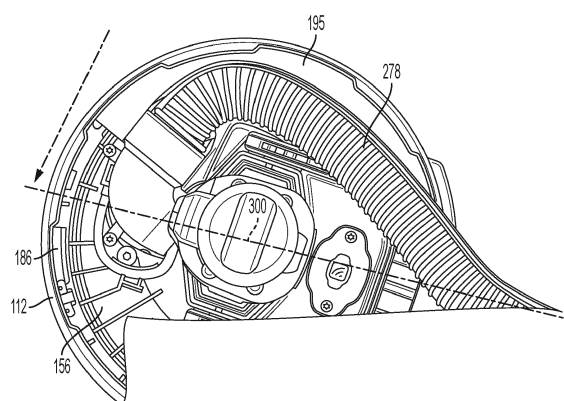


FIG. 26A



EUROPEAN SEARCH REPORT

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			B24B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 23 March 2021	Examiner Koller, Stefan
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 20 20 0124

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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