

Title (en)

MACHINE TOOL AND METHOD FOR COOLING A DRIVE UNIT OF THE MACHINE TOOL

Title (de)

WERKZEUGMASCHINE UND VERFAHREN ZU EINEM KÜHLEN EINER ANTRIEBSEINHEIT DER WERKZEUGMASCHINE

Title (fr)

MACHINE-OUTIL ET PROCÉDÉ POUR REFROIDIR UNE UNITÉ D'ENTRAÎNEMENT DE LA MACHINE-OUTIL

Publication

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Application

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Abstract (en)

[origin: WO2021136620A1] The invention relates to a machine tool, in particular a hand-held machine tool, comprising at least one housing unit (14a; 14b; 14c; 14e), at least one drive unit (16a; 16b; 16c; 16e) arranged within the housing unit (14a; 14b; 14c; 14e), and at least one separator unit (22a; 22b; 22c; 22e) which is provided to divide at least one fluid flow (24a; 24b; 24c; 24e) directed through the housing unit (14a; 14b; 14c; 14e) into at least two sub-flows (26a, 28a; 26b, 28b; 26c, 28c; 26e, 28e), in particular according to a density of foreign bodies , wherein one sub-flow (26a; 26b; 26c; 26e) of the sub-flows (26a, 28a; 26b, 28b; 26c, 28c; 26e, 28e) has a higher density of foreign bodies in comparison to another sub-flow (28a; 28b; 28c; 28e) of the sub-flows (26a, 28a; 26b, 28b; 26c, 28c; 26e, 28e). According to the invention, the machine tool comprises at least one fluid cooling unit (30a; 30b; 30c; 30e), which is provided for cooling the drive unit (16a; 16b; 16c; 16e) by means of the at least two sub-flows (26a, 28a; 26b, 28b; 26c, 28c; 26e, 28e).

IPC 8 full level

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