

Title (en)
FLOW-COOLED POWER ELECTRONICS

Title (de)
FLUSSGEKÜHLTE LEISTUNGSELEKTRONIK

Title (fr)
ELECTRONIQUE DE PUISSANCE REFROIDIE PAR UN FLUX

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Application
EP 18807638 A 20181128

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Abstract (en)
[origin: WO2019120915A1] The invention relates to a device (1) for cooling a power electronics system (EP) comprising at least one power electronics component (2) mounted on at least one electronic board (3), the said cooling device (1) comprises a hose (4) for the circulation of a flow (5) at an ambient temperature, and the invention is characterized in that the cooling device (1) comprises a first heat-exchange surface (6) thermally connected to the power electronics components (2) and at least a second heat-exchange surface (7). This second heat-exchange surface (7) is intended to exchange heat with the flow (5) circulating through the hose and, for this reason, the second heat-exchange surface (7) is inserted inside the circulation hose (4) so as to remove heat by convection with the circulating flow (5). The second heat-exchange surface (7) is thermally connected to the first heat-exchange surface (6).

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