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(54) **ROTOR FOR AN ELECTRIC MACHINE**

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(57) **ABSTRACT**

A rotor for an electric machine including a rotor shaft and a core stack fastened thereto, at least one coolant outlet being provided at the axial end-face side of the core stack. For centrifugal cooling of the winding heads of the stator of the electric machine, a coolant conducting structure is provided at the axial core stack end-face side, via which the coolant exiting from the coolant outlet is spun off radially outwardly in the direction of the winding heads as the result of centrifugal force. The coolant conducting structure is designed as a single-material and/or one-piece integral part of the rotor, in particular the rotor core stack.

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