

Title (en)
LIQUID-COOLED ELECTRIC MACHINE

Title (de)
FLÜSSIGKEITGEKÜHLTE ELEKTRISCHE MASCHINE

Title (fr)
MACHINE ELECTRIQUE REFROIDIE PAR LIQUIDE

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Application
EP 98918967 A 19980514

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Abstract (en)
[origin: WO9854819A1] The invention seeks to create an electric machine with a cooling element, which enables an optimal economical design of said machine. The machine comprises a stator (1) and a rotor (2). The stator (1) has a winding (3) and is enclosed by a double-walled machine housing (4) for a liquid-surface cooling. The end shields (5) and the bearings (6) delimit the machine laterally. In this jacket cooling, cooling liquid is fed via the connectors (13). In addition, a cooling pipe (14) is fitted inside the machine, in the region of the winding (3) of the stator (1), in particular parallel to the faces of the winding (3) heads. The cooling pipe (14) can be connected with the jacket cooling via connectors (15) on configuration of the jacket cooling. The invention innovatively enables heat loss produced by the rotor winding or the stator winding to be carried directly to the exposed areas. This results in increased exploitation potential of the machine, which in turn enables smaller construction dimensions of the machine under certain circumstances

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