

Title (en)
ELECTRIC MACHINE

Title (de)
ELEKTRISCHE MASCHINE

Title (fr)
MACHINE ÉLECTRIQUE

Publication
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Application
EP 17715929 A 20170406

Priority
• DE 102016208770 A 20160520
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Abstract (en)
[origin: WO2017198389A1] The invention relates to an electric machine (1) comprising a stator (2) and a rotor (3). The rotor (3) is rotatably mounted within the stator (2) and has a rotor shaft (4) which is in the form of a hollow shaft and by means of which a cavity (5) is formed that is provided for receiving a coolant. The rotor shaft (4) has at least two shoulders (8, 8', 9, 9') at at least one end section (6, 7), and thus at least three rotor shaft sections, namely a first rotor shaft section (10, 10'), a second rotor shaft section (11, 11'), and a third rotor shaft section (12, 12'), with different diameters are formed. A flow element (13, 13') is arranged in the cavity (5) of the rotor shaft (4) in the region of the second rotor shaft section (11, 11'), and at least one radial outlet opening (14, 14') is formed in the casing of the rotor shaft (4) in the region of the second rotor shaft section (11, 11'), said outlet opening fluidically connecting the cavity (5) of the rotor shaft (4) to an outer region of the rotor shaft (4).

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