

Title (en)
CENTRIFUGAL BLOWER HAVING AN INTEGRATED COOLING FUNCTION

Title (de)
RADIALLÜFTER MIT INTEGRIERTER KÜHLFUNKTION

Title (fr)
VENTILATEUR RADIAL À FONCTION DE REFROIDISSEMENT INTÉGRÉE

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Application
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Abstract (en)
[origin: WO2020104153A1] The invention relates to a centrifugal fan (1), comprising: a fan housing (2) having a spiral pressure chamber (D); a rotor assembly (10), which has an internally axially open bearing tube (20), in which a shaft (40) carrying a fan wheel (30) is mounted, which shaft has a rotor (50) of a canned motor, wherein an air-guiding channel (L) between a first pressure-chamber region (2a) and a second pressure-chamber region (2b) of the spiral pressure chamber (D) is formed between the bearing tube (20) and the wall (W) of the canned motor so that an air flow flows through the air-guiding channel (L) from the one to the other pressure-chamber region (2a, 2b) and removes heat from the bearing tube (20) into the pressure chamber (D).

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