

Title (en)

ROTOR FOR AN ELECTRIC MOTOR INCORPORATING ACOUSTIC ABSORPTION ELEMENTS

Title (de)

ROTOR FÜR EINEN ELEKTROMOTOR MIT SCHALLABSORPTIONSELEMENTEN

Title (fr)

ROTOR POUR MOTEUR ÉLECTRIQUE INTÉGRANT DES ÉLÉMENTS D'ABSORPTION ACOUSTIQUE

Publication

**EP 4128483 A1 20230208 (FR)**

Application

**EP 21714655 A 20210304**

Priority

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Abstract (en)

[origin: WO2021191518A1] The invention relates to a rotor (10) for an electric motor (30), comprising: - a rotor shaft (12) mounted for rotation about an axis (X); - a lamination stack (14) coaxially mounted on the rotor shaft (12), said lamination stack (14) comprising a plurality of first internal cavities (141) and second internal cavities (142); - a plurality of permanent magnets (15) housed inside the first internal cavities (141) of the lamination stack (14); - a front flange (17) and a rear flange (19) coaxially mounted on the rotor shaft (12) and axially arranged on either side of the lamination stack (14); characterised in that at least two of the second internal cavities (142) each house at least one acoustic absorption element (16), said at least one acoustic absorption element (16) being able to attenuate the vibration and/or the mechanical and/or magnetic noise generated by the rotor during its operation within the electric motor.

IPC 8 full level

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CPC (source: EP US)

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