

Title (en)

ROTOR OF AN ELECTRIC MACHINE WITH A LAMINATED CORE

Title (de)

ROTOR EINER ELEKTRISCHEN MASCHINE MIT EINEM BLECHPAKET

Title (fr)

ROTOR D'UNE MACHINE ÉLECTRIQUE COMPORTANT UN NOYAU FEUILLETÉ

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2017198406A1] A rotor (10) of an electric machine with a laminated core (12) is described, the latter comprising a first partial core (14a-d) with first sheet-metal laminates (16a-d) and a second partial core (14a-d) with second sheet-metal laminates (16a-d), and wherein the sheet-metal laminates (16a-d) and the partial cores (14a-d) are joined axially along a centre axis (A) of the laminated core (12). Each of the partial cores (14a-d) here has a radially inner circumferential region (24a-d) and a radially outer circumferential region (25a-d) and a plurality of connecting regions (18a-d) which are distributed in the circumferential direction, overlap one another at the joined partial cores (14a-d) and form a common connecting region (18) here. Furthermore, at least one of the partial cores (14a-d) comprises a fastening region (20b) for arranging the laminated core (12) on a support element, wherein, for the formation of said fastening region, a circumferential region (24b) is formed offset radially in relation to an axially adjacent circumferential region (24a, c). For interaction with a stator of an electric machine, the laminated core (12) has a magnetic interacting region (22) which is formed by one of the circumferential regions (25a-d) of the partial cores (14a-d). The rotor (10) is characterized in that the magnetic interacting region (22) comprises a plurality of rotor poles (26) which are distributed uniformly over the circumference and have permanent magnets (28).

IPC 8 full level

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