Title (en)

BIPOLAR SYNCHRONOUS MOTOR WITH A HORIZONTAL ROTOR AND METHOD FOR CONTROLLING THE AMPLITUDE OF THE SYMPATHETIC VIBRATION OF THE DOUBLE ROTATION FREQUENCIES IN SUCH A SYNCHRONOUS MOTOR

Title (de)

ZWEIPOLIGE ELEKTRISCHE SYNCHRONMASCHINE MIT LIEGENDEM ROTOR UND VERFAHREN ZUR EINSTELLUNG DER AMPLITUDEN VON RESONANZSCHWINGUNGEN DOPPELTER DREHFREQUENZ AN EINER SOLCHEN SYNCHRONMASCHINE

Title (fr)

MOTEUR ELECTRIQUE SYNCHRONE BIPOLAIRE A ROTOR HORIZONTAL ET PROCEDE POUR REGLER L'AMPLITUDE D'OSCILLATIONS DE RESONANCE DE FREQUENCES DE ROTATION DOUBLES SUR UN TEL MOTEUR SYNCHRONE

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Application

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Abstract (en)

[origin: DE19832708A1] A two-pole electric synchronous machine includes a stator and a rotor arranged horizontally in the stator bore, and mounted in two pedestal bearings. Resonance vibrations of the rotor occurring at twice the rotational frequency of the rotor have their amplitudes adjusted to as small a value as possible. The resonance vibrations occurring at twice the rotor rotational frequency are adjusted in amplitude depending on the vertical- eccentric alignment or orientation of the rotor axle (2,21) in the stator bore (6). More specifically, the amplitudes of the double rotor-frequency vibrations are adjusted by a vertical- parallel displacement of the rotor axle (21).

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H02K 5/16; H02K 7/09

IPC 8 full level

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