Title (en)

IMPROVED PLANAR COMPOSITE STRUCTURES AND ASSEMBLIES FOR AXIAL FLUX MOTORS AND GENERATORS

Title (de)

VERBESSERTE PLANARE VERBUNDSTRUKTUREN UND ANORDNUNGEN FÜR AXIALFLUSSMOTOREN UND GENERATOREN

Title (fr)

STRUCTURES COMPOSITES PLANES AMÉLIORÉES ET ENSEMBLES POUR MOTEURS ET GÉNÉRATEURS À FLUX AXIAL

Publication

EP 3652843 A1 20200520 (EN)

Application

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Abstract (en)

[origin: WO2019013968A1] A planar composite structure (PCS) for use in an axial flux motor or generator may include a conductive layer disposed on a dielectric layer, with the conductive layer comprising conductive traces that form portions of at least two windings that, when energized, generate magnetic flux for at least two corresponding phases of the motor or generator. A PCS may additionally or alternatively include a first conductive layer comprising first conductive traces that form a first portion of a winding that, when energized, generates magnetic flux for a first phase of the motor or generator, and a second conductive layer, which is different than the at least one first conductive layer, comprising second conductive traces that form a second portion of the winding. The first portion of the winding may be connected in series with the second portion of the winding, and the first and second portions of the winding may be configured and arranged such that a same amount of current flows through each of the first and second portions of the winding.

IPC 8 full level

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CPC (source: EP KR)

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