

Title (en)
SEGEMENTED ELECTRIC MACHINE WITH SINGLE-LAYER FRACTIONAL-SLOT WINDING

Title (de)
SEGMENTIERTE ELEKTRISCHE MASCHINE MIT EINSCHICHTBRUCHLOCHWICKLUNG

Title (fr)
MACHINE ÉLECTRIQUE EN SECTEUR COMPRENANT ENROULEMENT MONOCOUCHE À NOMBRE FRACTIONNAIRE D'ENCOCHES PAR PÔLE ET PHASE

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Application
EP 13707822 A 20130218

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Abstract (en)
[origin: WO2013124239A2] The invention relates to a dynamoelectric machine, in particular wind power generators with a stator (101), which has, when viewed in the circumferential direction, a plurality of segments (103) which, when combined mechanically, give the stator (101), having the following features: - each of the segments (103) has at least three coils (106) or an integral multiple thereof, - a three-phase winding system (U, V, W) is arranged in slots (102) in the stator (101), - a rotor (108) which forms magnetic poles (107) with permanent magnets (110), - the winding system is in the form of a single-layer fractional-slot winding such that the cogging torques of the dynamoelectric machine are reduced, - the coils of different segments (103) have identical coil widths, wherein the coil width represents the distance between the two slots in which the forward conductor or rear conductor of a coil is located, - a segment (103) of the stator (101) extends over six slots (102) or integral multiples thereof, - at least one segment (103) has only coils (103) of two different phases (U, V, W).

IPC 8 full level
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Citation (search report)
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Cited by
CN110337772A; US11196314B2

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