Title (en)

ROTATING ELECTRIC MACHINE

Title (de)

ROTIERENDE ELEKTRISCHE MASCHINE

Title (fr)

MACHINE ÉLECTRIQUE ROTATIVE

Publication

EP 2569852 A2 20130320 (DE)

Application

EP 11719244 A 20110509

Priority

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Abstract (en)

[origin: WO2011141435A2] The invention relates to a rotating electric machine, in particular a double-fed asynchronous machine with a power range of 20 MVA - 500 MVA. Said machine comprises a rotor, which can be rotated about a shaft and is concentrically surrounded by a stator, and a hollow cylindrical rotor sheet body that has a layered sheet stack consisting of a plurality of sheet metal segments (27) in the form of ring segments, to which a uniform pressure is applied by a press plate. Said segments are braced by bolts that run in an axial direction through the rotor sheet body. The sheet stack engages with a concentric central body of the rotor by means of grooves (29) running axially along the inner radius (31) of the rotor sheet body (15). In order to obtain a mechanical coupling for a machine of this type that does not adversely affect the cooling system, each of the grooves (29) is formed by pairs of ribs (30) that are located on the inner radius (31) of the sheet metal segments (27) and are separated by the width of the groove, said ribs being oriented radially inwards.

IPC 8 full level

H02K 1/30 (2006.01); **H02K 1/28** (2006.01)

CPC (source: EP US)

H02K 1/26 (2013.01 - EP US); **H02K 1/28** (2013.01 - US); **H02K 1/30** (2013.01 - EP US)

Citation (search report)

See references of WO 2011141435A2

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WO 2011141435 A2 20111117; **WO 2011141435 A3 20121122**; CA 2799033 A1 20111117; CN 103026589 A 20130403; DE 202011110583 U1 20141027; EP 2569852 A2 20130320; ES 1126730 U 20141007; ES 1126730 Y 20150120; JP 2013526822 A 20130624; PT 11073 T 20150323; RU 2012152937 A 20140620; US 2013062991 A1 20130314

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