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(54) Title: WIND TURBINE GENERATOR WITH LOCALIZED AIR GAP CONTROL AND A WIND TURBINE HAVING SUCH A GENERATOR

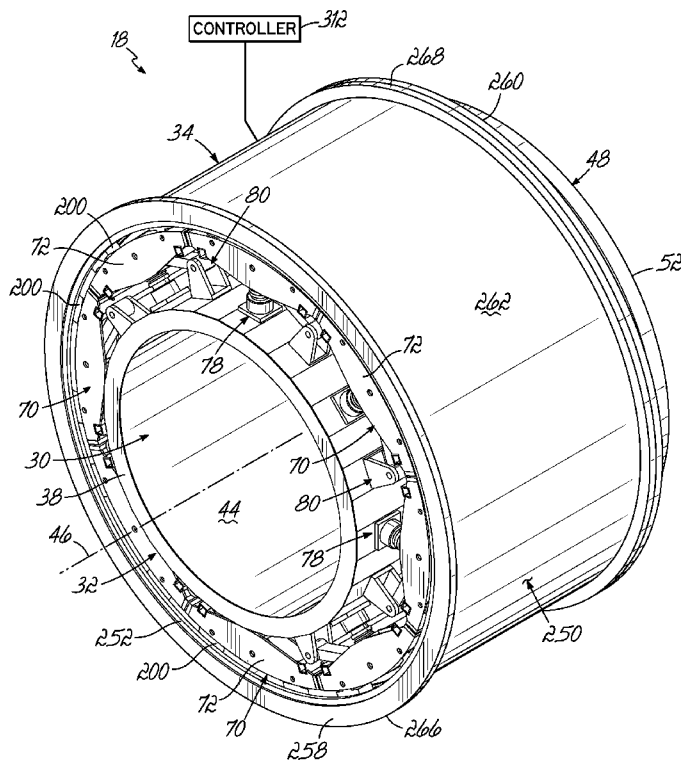


FIG. 3

(57) Abstract: A wind turbine component (18) includes an inner member (32) and an outer member (34) disposed relative to the inner member (32), wherein the inner and outer members (32, 34) move relative to each other. A plain bearing (200) is coupled to one of the inner or outer member (32, 34) and configured to provide a fluid film (202) for maintaining separation of and facilitating relative movement between the inner and outer members (32, 34). A position adjustment mechanism (78) is coupled to the one of the inner or outer member (32, 34) for selectively moving the plain bearing (200). A position controller (176) may be operatively coupled to the position adjustment mechanism (78) for controlling the position of the plain bearing (200). The wind turbine component may be a wind turbine generator (18) with the inner member and outer member corresponding to one of the stator and rotor assemblies (32, 34). Methods for controlling the generator are also disclosed.



GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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F16C17/02 F16C25/02

ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H02K F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2011/003482 A2 (SIEMENS AG [DE]; GUERENBOURG PIERRE-ANTOINE [DK]; NEW NIGEL [GB]; STEG) 13 January 2011 (2011-01-13) abstract; claims; figures -----	1-92
Y	US 4 643 592 A (LEWIS DAVID W [US] ET AL) 17 February 1987 (1987-02-17) abstract; claims; figures -----	1-92
Y	US 5 772 334 A (PARKINS DAVID WALTER [GB] ET AL) 30 June 1998 (1998-06-30) abstract; figures; examples -----	1-92
Y	WO 97/45651 A1 (SIEMENS AG [DE]; BECKER BERNARD [DE]) 4 December 1997 (1997-12-04) abstract; claims; figures ----- -/--	1-92



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

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