

1) Family number: 48485213 (US2012205981A)

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Title: UTILIZATION OF DISTRIBUTED GENERATOR INVERTERS AS STATCOM

Abstract: The invention provides a method and system for operating a solar farm inverter as a Flexible AC Transmission System (FACTS) device-a STATCOM-for voltage control. The solar farm inverter can provide voltage regulation, damping enhancement, stability improvement and other benefits provided by FACTS devices. In one embodiment, the solar farm operating as a STATCOM at night is employed to increase the connectivity of neighbouring wind farms that produce peak power at night due to high winds, but are unable to connect due to voltage regulation issues. The present invention can also operate during the day because there remains inverter capacity after real power export by the solar farm. Additional auxiliary controllers are incorporated in the solar farm inverter to enhance damping and stability, and provide other benefits provided by FACTS devices.

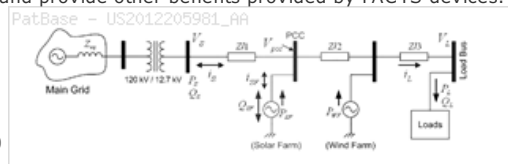
Classifications:

International (IPC 8-9): F03B13/14 F03D7/00 H02J13/00 H02J3/00 H02J3/01 H02J3/16 H02J3/18 H02J3/24 H02J3/38 H02J3/40 H02J3/48 H02J3/50 H02J4/00 H02J9/00 H02M7/44 H02S40/30 H02S40/32 (Advanced/Invention); H02J3/32 H02J7/35 (Advanced/Non-invention)

CPC: H02J3/1842 H02J3/40 Y02E10/563 Y02E40/16 Y02E40/22 Y02E40/40 Y10T307/615 H02J9/00 H02J3/386 H02M7/44 H02J3/383 H02J3/01 Y02E10/38 H02J7/35 H02J3/50 H02J3/48 H02J3/385 H02J3/32 H02J3/24 H02J3/1864 H02J3/1821 H02J4/00 Y02E10/763 Y10T307/549 Y02E40/30 Y02E10/58 Y02E10/566

European: H02J3/01 H02J3/18C3A H02J3/38D1S H02J3/40 Y02E40/16 Y02E40/22 Y02E40/40 Y02E40/70

US: 1/1 307/52 307/64 307/64P



Family:

Publication number	Publication date	Application number	Application date
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Assignee(s): UNIVERSITY OF WESTERN ONTARIO ; THE UNIVERSITY WESTERN ONTARIO ; WESTERN ONTARIO UNIV ; UNIV OF WESTERN ONTARIO ; RAHMAN SHAR ARIFUR ; THE UNIVERSITY OF WESTERN ONTARIO ; OF WESTERN ONTARIO UNIV ; RAHMAN RAJIV KUMAR

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Inventor(s): RHAMAN SHAH ARIFUR

Agent(s): BRION RAFFOUL; BROOKS NIGEL SAMUEL; RGTH; BRION; RAFFOUL BRION

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN

2) Family number: 61458116 (US2017175711A)

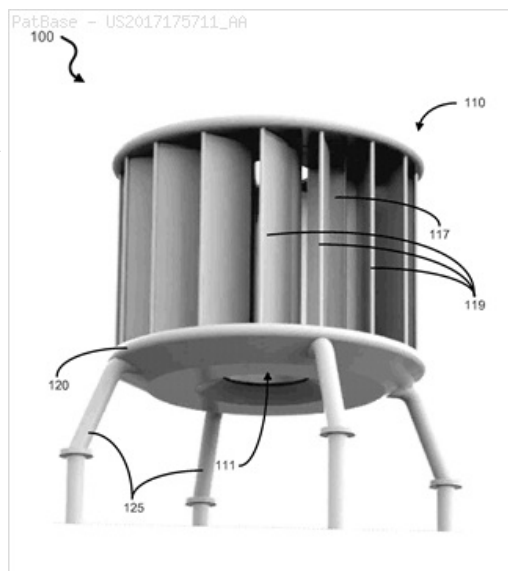
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Title: DIRECT WIND ENERGY GENERATION

Abstract: Methods, systems, and devices are disclosed for wind power generation. In one aspect, a wind power generator includes a support base; inductors positioned over the support base in a circular array; an annulus ring track fixed to the base support and providing a circular track around which the inductors are located; an annulus ring rotor placed on the annulus ring track and engaged to rollers in the circular track so that the annulus ring rotor can rotate relative to the an annulus ring track, in which the annulus ring rotor include separate magnets to move through the circular array of inductors to cause generation of electric currents; and a wind rotor assembly coupled to the annulus ring rotor and including wind-deflecting blades that rotate with the rotor and a hollow central interior for containing a wind vortex formed from deflecting wind by the blades to convert into the electric energy.

Classifications:

International (IPC 8-9): F03D13/20 F03D3/00 F03D3/06 F03D7/06
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H02K21/12 H02K21/24 H02K3/18 H02K3/28 H02K41/03 H02K7/08
H02K7/18 H02S10/12 (Advanced/Invention);
H02K11/04 H02K3/28 (Advanced/Non-invention)
CPC: F03D7/06 F03D9/007 F03D9/11 F03D9/25 F03D13/20 F05B2240/211
F05B2240/301 F05B2240/50 F05B2240/9112 H02K1/141 H02K3/18
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Y02E10/728 F03D3/005 F03D3/061 H02K7/085
US: 1/1 290/55



Family:

Publication number	Publication date	Application number	Application date
AU2015289392 AA	20170202	AU20150289392	20150720
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WO16011454 A1	20160121	WO2015US41204	20150720

Priority:

US20140026561P 20140718 US20150327307 20150720 WO2015US41204 20150720
US20170327307 20170118 US20170798126 20171030

Probable Assignee: EIP TECHNOLOGIES INC

Assignee(s): (std): EIP TECH INC ; EIP TECHNOLOGIES INC

Assignee(s): BURKLE STEVE

Inventor(s): (std): BURKLE STEVE

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SMART AND BIGGAR; MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; PERKINS COIE LLP; AI BING

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
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3) Family number: 52068782 (US2012252676A)

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Title: EXTREMELY LOW RESISTANCE COMPOSITIONS AND METHODS FOR CREATING SAME

Abstract: The invention pertains to creating new extremely low resistance (ELR) materials, which may include high temperature superconducting (HTS) materials. In some implementations of the invention, an ELR material may be modified by depositing a layer of modifying material onto the ELR material to form a modified ELR material. The modified ELR material has improved operational characteristics over the ELR material alone. Such operational characteristics may include operating at increased temperatures or carrying additional electrical charge or other operational characteristics. In some implementations of the invention, the ELR material is a cuprate-perovskite, such as, but not limited to BSSCO. In some implementations of the invention, the modifying material is a conductive material that bonds easily to oxygen, such as, but not limited to, chromium.

Classifications:

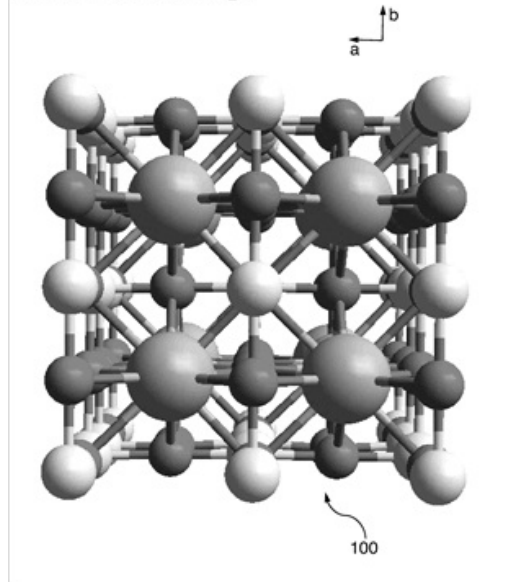
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H02K55/00 (Advanced/Invention);
H01L23/532 (Advanced/Non-invention);

G01K G01L G01R H01L (Subclass/Invention)
CPC: H01L39/126 H01L39/2422 H01L39/2464 Y10T428/31678 H01L39/02
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H01L23/53285 H01L39/128 H01L39/225 H01L2224/48091
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H02K3/02 H02K55/00 Y02E40/62

European: H01L39/12C H01L39/24J4
US: 1/1 252/500 427/62 428/457 428/471 428/702 505/100 505/121
505/150 505/236 505/237 505/470
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PatBase - US2012252676_AA



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: AMBATURE INC

Assignee(s): (std): AMBATURE LLC ; GREENLAND PAUL ; COPPA BRIAN ; NORTH FORREST ; HANNA JOEL PATRICK ; GILBERT DOUGLAS J ; CALE TIMOTHY S ; NORTH FORREST J ; COPPA BRIAN J ; EMBACHER INK ; AMBATRUE INC ; AMBATURE INC ; SMITH MICHAEL J ; SHTEYN YEVGENIY EUGENE ; SHTEYN Y EUGENE

Assignee(s): AMBATURE INC5235 S. 39TH STREETPHOENIXAZ85040US ; AHRE INVESTMENTS LLC ET AL ; LANGER ENERGY INVESTMENTS LLC ET AL

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Inventor(s): GILBERT DOUGLAS ; HANNA JOEL ; SMITH MICHAEL ; SHTEYN YEVGENIY ; SMITH MICHAEL JUS ; SHTEYN YEVGENIY EUGENEUS ; GILBERT DOUGLAS JUS ; COPPA BRIANUS ; HANNA JOEL PATRICKUS ; NORTH FORRESTUS ; GREENLAND PAULUS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; GOWLING LAFLEUR HENDERSON LLP; BECK SIMON ANTONY; REINHOLD COHN AND PARTNERS; TANI AND ABE PC; HAMADA HARUO; YURIDICHESKAYA GORODISSKI I PARTNERY OOO FA; WOMBLE CARLYLE SANDRIDGE AND RICE LLP; TOERING PATENTS PLLC; TOERING RICK A

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 55716910 (US2015162799A)

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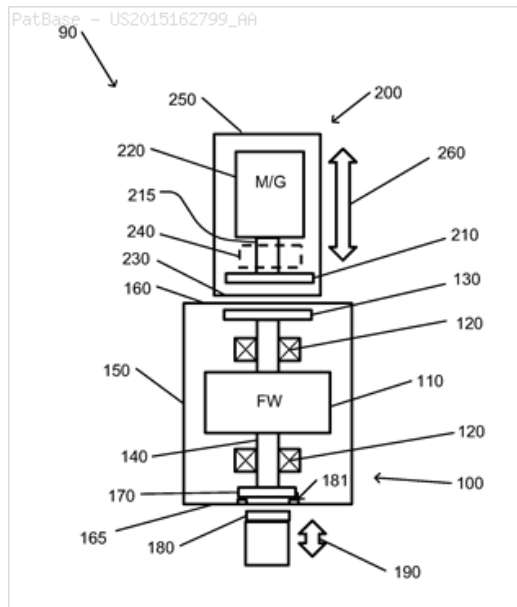
Title: MAGNETICALLY COUPLED FLYWHEEL

Abstract: A stabilization system for a rotating load, such as a flywheel, includes a mechanical bearing to continuously support a shaft of the rotating load so as to hold the shaft at a substantially fixed axis of rotation. A magnetic stabilization assembly includes a plurality of electromagnets arranged around the shaft. Control circuitry for controls a resultant magnetic field generated by the electromagnets such that the magnetic field acts on a ferromagnetic element of the shaft to reduce imbalance forces acting on the shaft.

Classifications:

International (IPC 8-9): F16C19/52 F16C32/00 F16C32/04 F16F15/00
F16F15/03 F16F15/18 F16F15/30 F16F15/315 H02K H02K21/02 H02K7/02
H02K7/08 H02K7/09 (Advanced/Invention);

H02K7/08 (Advanced/Non-invention);
H02K (Subclass/Invention)
CPC: F16F15/30 H02K7/025 F16C32/0402 H02K7/02 F16C32/0446
F16C32/0451 F16F15/03 F16F15/3156 H02K7/083 H02K7/09 Y02E60/16
H02K7/085 F16C19/527 F16F15/18 F16F15/005 F16C2361/55
US: 1/1 310/74 310/90.5



Family:

Publication number	Publication date	Application number	Application date
CA2879158 AA	20150114	CA20132879158	20130724
CA2879158 C	20190108	CA20132879158	20130724
DE602013025239 D1	20170928	DE201360025239T	20130724
EP2880743 A1	20150610	EP20130825526	20130724
EP2880743 A4	20160824	EP20130825526	20130724
EP2880743 B1	20170816	EP20130825526	20130724
EP3267564 A1	20180110	EP20170185643	20130724
IL237001 A1	20171130	IL20130237001	20130724
IL255779 A0	20180131	IL20130255779	20130724
IN01150DN2015 A	20150626	IN2015DN01150	20150212
US2015162799 AA	20150611	US20130418114	20130724
US2017244300 AA	20170824	US20170592215	20170511
US2019252942 AA	20190815	US20190353064	20190314
US9667117 BB	20170530	US20130418114	20130724
WO14020593 A1	20140206	WO2013IL50630	20130724

Priority:

US20120677056P	20120730	US20120722174P	20121104	US20130773158P	20130306
EP20130825526	20130724	US20130418114	20130724	WO2013IL50630	20130724
US20150418114	20150129	US20170592215	20170511	US20190353064	20190314

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Inventor(s): (std): ILAN BEN DAVID ; NIR ZOHAR ; DAVID PINCU ; ZOHAR NIR ; BEN DAVID ILAN ; PINCU DAVID

Agent(s): GOWLING LAFLEUR HENDERSON LLP; GOWLING WLG CANADA LLP; STOLMAR AND PARTNER
PATENTANWALTE PARTG MBB; PEARL COHEN ZEDEK LATZER BARATZ UK LLP; PEARL COHEN ZEDEK
LATZER BARATZ; PEARL COHN ZEDEK LATZER BARATZ LLP; PEARL COHEN ZEDEK LATZER BARATZ ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN
IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX
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SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 62006673 (US2017284359A)

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Title: RENEWABLE ENERGY GENERATION BASED ON WATER WAVES

Abstract: Methods, systems, and devices are disclosed for wave power generation. In one aspect, a wave power generator device includes a stator assembly and a rotor assembly encased within a tube frame. The stator assembly includes an array of inductor coils in a fixed position within a cavity of the tube frame and a plurality of bearings coupled to the tube frame. The rotor assembly includes a turbine rotor having a central hub and peripheral blades coupled to a high inertia annular flywheel that is moveably engaged with the bearings of the stator assembly, and an array of magnets arranged to be evenly spaced and of alternating axial polarity from one another extending from the annular flywheel into the cavity between the array of inductor coils, such that electric currents are produced based on magnetic field interaction of the magnets with the inductor coils during the rotation of the annular flywheel.

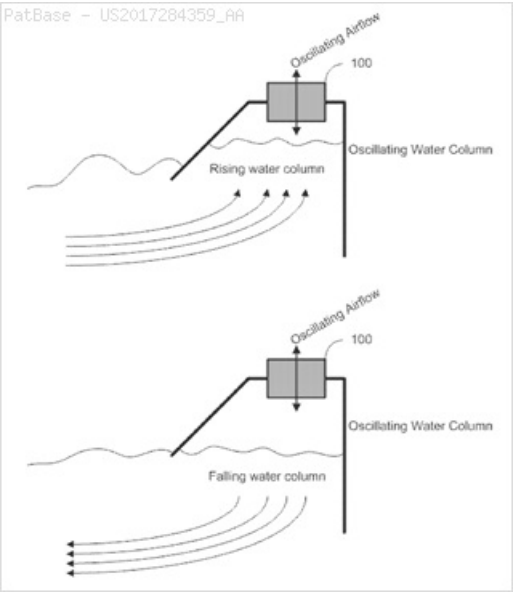
Classifications:

International (IPC 8-9): F03B13/10 F03B13/12 F03B13/14 F03B13/18

F03B13/24 H02K35/02 H02P9/04 (Advanced/Invention);

F03B15/00 (Advanced/Non-invention)

CPC: F03B13/12 F03B13/10 F03B13/1845 H02K35/02 H02P9/04



Family:

Publication number	Publication date	Application number	Application date
US2017284359 AA	20171005	US20150514464	20150925
US2019219025 AA	20190718	US20190364074	20190325
US10253746 BB	20190409	US20150514464	20150925
WO16049596 A1	20160331	WO2015US52491	20150925

Priority:

US20140055141P 20140925 US20150514464 20150925 WO2015US52491 20150925
US20170514464 20170324 US20190364074 20190325

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Inventor(s): (std): BURKLE STEVE

Agent(s): PERKINS COIE LLP; AI BING

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU
CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN
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MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN
ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW