

Nicolas Vargas

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Search 6: 5 and two halves (Results 3231)
Search 7: 5 and (rotor w5 two halves) (Results 340)
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Search 10: 9 and stator (Results 67)
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Search 13: 12 and stator wind* (Results 20)

1) Family number: 50470041 (US2013099501A)

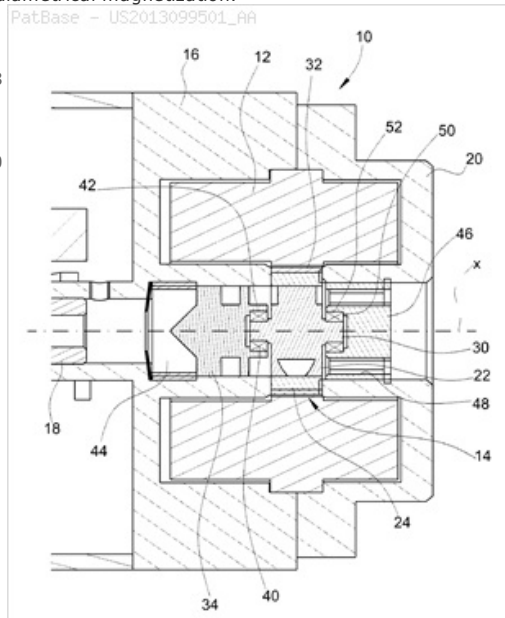
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Title: DEVICE FOR GENERATING ELECTRIC POWER FROM A SOURCE OF AIR OR OTHER GAS OR FLUID UNDER PRESSURE

Abstract: A device (10) includes a turbine (22, 34) having an impeller (22), and an electric generator (12, 24) having a stator (12) provided with stator windings distributed around a cylindrical surface (X) coaxial to the impeller (22), and a permanent magnet (24) which is rotatable relative to the stator (12) and is drivingly connected for rotation with the impeller (22). The impeller (22) is housed inside the permanent magnet (24) and the assembly formed by the impeller (22) and by the permanent magnet (24) is housed inside the stator (12). The permanent magnet (24) is made as a single hollow cylindrical body of high magnetic density material with diametrical magnetization.

Classifications:

International (IPC 8-9): F03B13/00 F03B3/04 F03D3/06 F03D9/00 F03D9/25 H02K16/02 H02K7/18 (Advanced/Invention)
CPC: H02K7/1823 F03B3/04 F03B13/00 F05B2220/60 F05B2220/7068 F05B2280/2006 F05B2280/6003 F05C2203/0882 F05C2253/04 Y02B10/50 Y02E10/223 Y02E10/725 H02K7/18 F03D9/25 F03D9/00 H02K7/00
European: F03B13/00 F03B3/04 F03D9/00 H02K7/18A2 R05B220/60 R05B220/7068 R05B280/2006 R05B280/6003 R05C203/08T6 R05C253/04 Y02B10/50
US: 290/52



Family:

Publication number	Publication date	Application number	Application date
BR112013000449 A2	20160503	BR20131100449	20110705
CN103004061 A	20130327	CN201180033520	20110705
CN103004061 B	20160629	CN201180033520	20110705
DE602011030363 D1	20161027	DE201160030363T	20110705
EP2591541 A1	20130515	EP20110754486	20110705
EP2591541 B1	20160914	EP20110754486	20110705
IT1400875 B1	20130702	IT2010TO00578	20100706
ITTO20100578 A1	20120107	IT2010TO00578	20100706
JP2013531964 T2	20130808	JP20130517658T	20110705
KR101847666 B1	20180410	KR20137002316	20110705
KR20130127419 A	20131122	KR20137002316	20110705
RU2013104542 A	20140820	RU20130104542	20110705

■ RU2567376 C2	20151110	RU20130104542	20110705
■ US2013099501 AA	20130425	US20110808235	20110705
■ US8957540 BB	20150217	US20110808235	20110705
■ WO12004738 A1	20120112	WO2011B52965	20110705

Priority:

IT2010TO00578 20100706 EP20110754486 20110705 WO2011B52965 20110705

Probable Assignee: FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA

Assignee(s): (std): CALDWELL DARWIN G ; CORDASCO STEFANO ; FOCCHI MICHELE ; FOND ISTITUTO ITALIANO DI TECNOLOGIA ; FONDATS ONE ISTITUTO ITAL JANO DI TEKNOLODZHIJA ; PANE GIANLUCA ; TACCHINO CARLO ; GUGLIELMINO EMANUELE

Assignee(s): FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA

Inventor(s): (std): FOCCHI MICHELE ; PANE GIANLUCA ; CALDWELL DARWIN G ; CORDASCO STEFANO ; TACCHINO CARLO ; GUGLIELMINO EMANUELE ; KOLDUEHL DARWIN DZH ; FOKKI MIKELE ; PANE DZHANLUKA ; TAKKINO KARLO ; KORDASKO STEFANO ; GUL EL MINO EHMANUEHLE

Inventor(s): CARLO TACCHINO ; EMANUELE GUGLIELMINO ; GIANLUCA PANE ; MICHELE FOCCHI ; DARWIN G CALDWELL ; STEFANO CORDASCO

Agent(s): MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; RONDANO DAVIDE; YAMAZAKI HIROSHI; MAEHORI YOSHIYUKI; TANAKA MITSUO; MERCHANT AND GOULD PC; RONDANO DAVIDE ET AL

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 RO RS RU 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

2) Family number: 48788106 (US2012206003A)

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Title: BRUSHLESS DIRECT CURRENT (DC) ELECTRIC GENERATOR WITH DECREASED ELECTROMAGNETIC DRAG

Abstract: A method and apparatus for reducing drag in an electric generator are disclosed. Armature insert members are distributed along a periphery of a stator insert fit into a stator having induction windings arranged in slots. The armature insert members include permanent magnet rotors having a pair of pole sections with same magnetic polarity. The alignment of the armature insert members is offset in 45 degree increments. The armature insert members are rotated together in a synchronized manner such that the pole sections are sequentially rotated into alignment with the slots providing a moving excitation field. The stator insert and the stator are divided into sectors from a common center point. Armature insert members having a first magnetic polarity are inserted into positions around the outer periphery of the stator insert corresponding to first sectors and armature insert members having a second magnetic polarity are inserted into positions around the outer periphery of the stator insert corresponding to second ones of the N sectors, the first ones and the second ones of the N sectors arranged in alternating relation.

Classifications:

International (IPC 8-9): H02K1/27 H02K16/02 H02K21/02

H02K41/06 (Advanced/Invention);

H02K53/00 (Advanced/Non-invention);

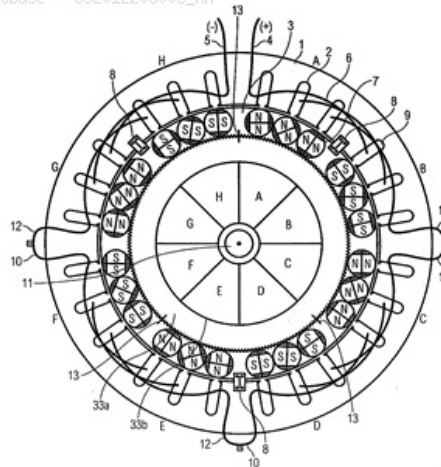
H02K1/27 H02K21/02 (Core/Non-invention)

CPC: H02K21/029 H02K53/00

European: H02K21/02M3V H02K53/00

US: 310/114 310/114P 74/DIG.009 74/DIG.9 74/DIG.9S

PatBase - US2012206003_AA



Family:

Publication number	Publication date	Application number	Application date
■ TW201126870 A	20110801	TW20100135890	20101021
■ US2012206003 AA	20120816	US20100503559	20101019
■ WO11048464 A1	20110428	WO2010B02663	20101019

Priority:

US20090279535P 20091022 US20100503559 20101019 WO2010B02663 20101019

Probable Assignee: REDEMPTIVE TECHNOLOGIES LTD

Assignee(s): (std): HOLCOMB ROBERT RAY ; REDEMPTIVE TECHNOLOGIES LTD

Assignee(s): REDEMPTIVE TECHNOLOGIES LIMITED

Inventor(s): (std): HOLCOMB ROBERT RAY

Agent(s): HOLCOMB ROBERT RAY

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 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 RO RS RU 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

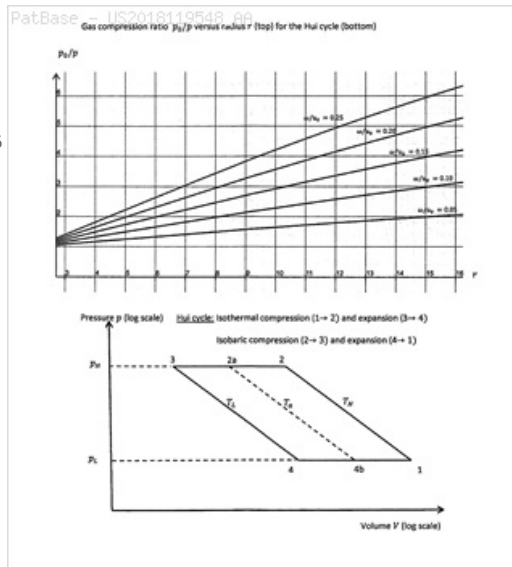
Title: TAPERING SPIRAL GAS TURBINE WITH POLYGON **ELECTRIC GENERATOR** FOR COMBINED COOLING, HEATING, POWER, PRESSURE, WORK, AND WATER

Abstract: A water purifier, Firefly Aqua, to desalinate water by solar power. Sunlight is concentrated by a sun tracking conic reflective surface onto a column of salty water. Solar photovoltaic power can be used to power a spiral compressor to condense low pressure steam. Also, we reuse solar heat by extracting the heat of compressing and condensing steam for evaporating more salty water under reduced pressure.

Classifications:

International (IPC 8-9): F01C1/02 F01C11/00 F01D F01D1/22 F01D1/32 F01D1/36 F01K21/00 F02C3/16 F03G6/00 F04C18/02 F04C23/00 (Advanced/Invention)

CPC: F01D1/22 F02C3/16 F01K21/00 F03G6/003 F01D1/32 Y02E20/16 F01C1/0215 F01C11/008 F01D1/36 F04C18/0215 F04C23/008 B01D1/00 B01D1/0035 B01D3/007 C02F1/14 Y02E10/46 Y02B30/52



Family:

Publication number	Publication date	Application number	Application date
■ CN108603409 A	20180928	CN201680080586	20161111
■ EP3411564 A1	20181212	EP20160889101	20161111
■ IL260747 A0	20180920	IL20160260747	20161111
■ IN201817032899 A	20181207	IN201817032899	20180901
■ KR20180100700 A	20180911	KR20187024478	20161111
■ SG11201806590W A1	20180927	SG20181106590	20161111
■ US2018119548 AA	20180503	US20160548349	20160705
■ WO17133294 A1	20170810	WO2016CN105462	20161111
■ WO17134481 A1	20170810	WO2016IB01359	20160705

Priority:

US20160290393P 20160202 US20160548349 20160705 WO2016IB01359 20160705
WO2016CN105462 20161111 US20170460264P 20170217

Probable Assignee: MONARCH POWER TECHNOLOGY LTD

Assignee(s): (std): MONARCH POWER TECH HK LTD ; MONARCH POWER TECH LTD

Assignee(s): MONARCH POWER TECHNOLOGY HK LTD ; MONARCH POWER TECHNOLOGY LTD ; MONARCH POWER TECHNOLOGY HONG KONG LTD ; HUI JOSEPH Y

Inventor(s): (std): HUI JOSEPH Y

Agent(s): MANRESA VAL MANUEL; JIAQUAN IP LAW FIRM

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 DJ 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 IR IS IT JP KE KG KM KN KP KR KW 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 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

Title: Quasi regulated **permanent magnet** generator

Abstract: A quasi regulated **electric generator**, comprising a **stator** having teeth on an inner periphery defining slots therebetween, **stator windings** disposed in the slots forming output phases, a rotor rotatably mounted within the **stator**, the **rotor** having **permanent magnets** mounted thereon forming **rotor** poles which induce a voltage in the **stator windings** when the rotor is driven by an external prime mover, and a series saturation circuit coupled to an external source of dc current for saturating the **stator**, decreasing the induced voltage thereby. Magnetic slot closers are placed in the slots in which are disposed the series saturation circuit to aid tooth saturation.

Classifications:

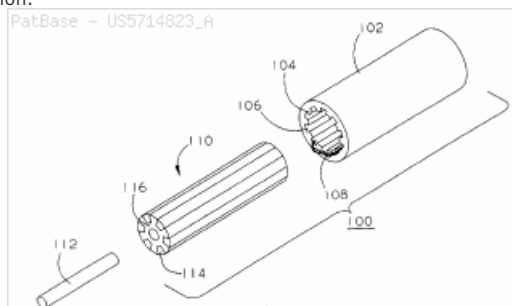
International (IPC 8-9): H02K21/00 (Advanced/Invention)

International (IPC 1-7): H02K19/12

CPC: H02K3/493 H02K21/046

European: H02K21/04S H02K3/493

US: 310/179 310/184 310/79



Family:

Publication number	Publication date	Application number	Application date
US5714823 A	19980203	US19940298483	19940829

Priority:

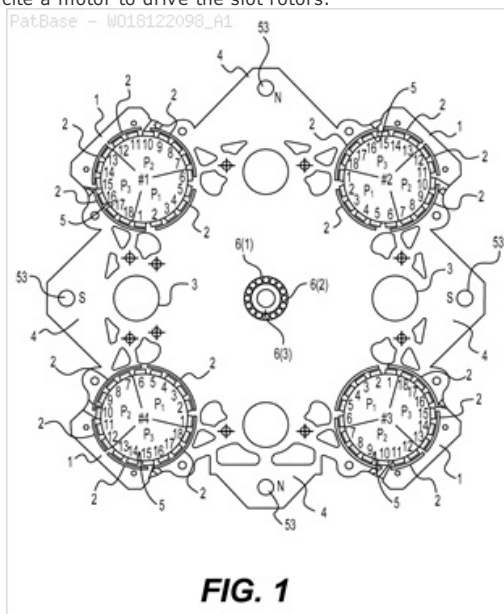
US19940298483 19940829

Probable Assignee: SUNDSTRAND CORP**Assignee(s):** (std): SUNDSTRAND CORP**Inventor(s):** (std): KRAMER DENNIS M ; MANSIR HASSAN ; SHERVINGTON ROGER M**5) Family number: 70339291 (WO18122098A1)**

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Title: COMPACT HIGH-EFFICIENCY, LOW-REVERSE TORQUE ELECTRIC POWER GENERATOR DRIVEN BY A HIGH EFFICIENCY ELECTRIC DRIVE MOTOR

Abstract: A generator with reduced reverse torque which may be used as a singular, point of use, compact **electric generator** that produces power with high efficiency and very low reverse torque. The generator comprising a **stator** having slots and **stator** coils and a series of slot rotors placed in relation to the **stator** coils such that minimal destructive interaction is caused between **magnetic** fields of each **rotor** and induced **magnetic** fields of the **stator** when the power generator is connected to an electric load with at least a portion of that power being sent to a storage device where a portion of the stored power is provided to excitation circuitry utilized to re-excite a motor to drive the slot rotors.

Classifications:**International (IPC 8-9):** H02K16/02 H02K31/00 H02K53/00 H02K99/00 (Advanced/Invention)**CPC:** H02K16/02 H02K31/00 H02K53/00 H02K99/00**Family:**

Publication number	Publication date	Application number	Application date
WO18122098 A1	20180705	WO2017EP84100	20171221

Priority:

US20160498400P 20161227

Probable Assignee: HOLCOMB SCIENT RESEARCH LTD**Assignee(s):** (std): HOLCOMB SCIENT RESEARCH LTD**Assignee(s):** HOLCOMB SCIENTIFIC RESEARCH LTD**Inventor(s):** (std): HOLCOMB ROBERT RAY**Agent(s):** FINNEGAN EUROPE LLP

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 DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC 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 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

6) Family number: 15806340 (US2003194310A)

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Title: DEVICE FOR PRODUCING ELECTRIC CURRENT FROM WIND ENERGY

Abstract: The system comprises a nacelle (3) mounted to turn about a vertical axis on the top of a mast (2) and carrying a rotary portion (10) which rotates about a substantially horizontal axis in a large diameter bearing (15). The rotary portion (10) comprises a hub (13) to which blades (14) are fixed. The system has an **electric generator** (12) comprising a **stator** (17) and a rotor (16) in the shape of a disk. The rotor (16) is fixed by a connecting member (20) to the hub (13) adjacent the bearing (15) so that the forces exerted by the wind on the rotary portion (10) are transmitted directly to the bearing (15) without passing through the **electric generator** (12).

Classifications:**International (IPC 8-9):** F03D1/06 F03D11/00 F03D11/02 F03D11/04

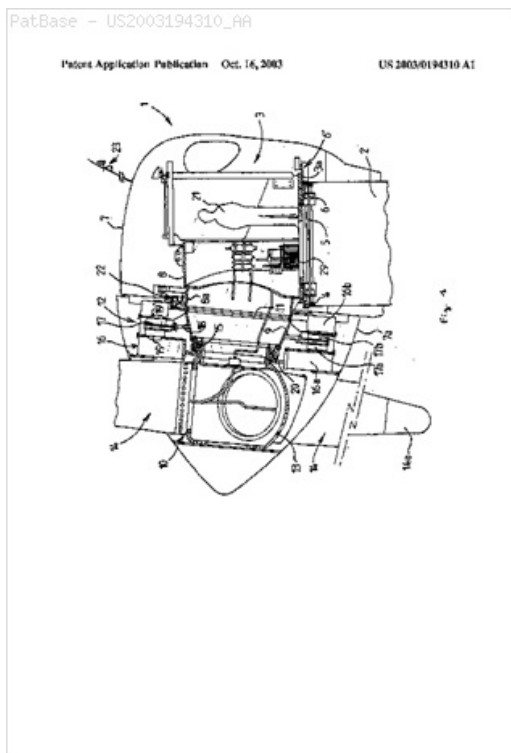
F03D7/04 F03D80/00 F03D80/70 F03D9/00

F03D9/25 (Advanced/Invention);

F03D11/00 (Advanced/Non-invention);

F03D1/00 F03D11/00 F03D7/00 F03D9/00 (Core/Invention)

International (IPC 1-7): F03B15/06 F03D1/06 F03D11/00 F03D11/02 F03D11/04 F03D3/00 F03D3/06 F03D7/00 F03D7/04 F03D9/00
CPC: Y10S415/908 H02K7/102 F05B2220/7066 F05B2240/14 Y02E10/721 Y02E10/725 H02K7/1838 F03D80/00 Y02E10/72 F03D9/25 F03D80/70
European: F03D11/00 F03D11/00B F03D9/00C H02K7/102 H02K7/18A2W R05B220/7066 R05B240/14 Y02E10/72B Y02E10/72D Y02E10/72H Y02E10/72J
US: 290/44 290/55 415/229 415/4.2 415/4.200P 415/4.3 415/908



Family:

Publication number	Publication date	Application number	Application date
AT291173 E	20050415	AT20010943572T	20010606
AU2001266118 AA	20020102	AU20010266118	20010606
AU200166118 A1	20020102	AU20010066118	20010606
AU200166118 A5	20020102	AU20010066118	20010606
CA2413234 AA	20021217	CA20012413234	20010606
CA2413234 C	20090811	CA20012413234	20010606
CN1236207 C	20060111	CN20018011421	20010606
CN1437685 A	20030820	CN20018011421	20010606
DE60109447 D1	20050421	DE20016009447	20010606
DE60109447 D1	20050421	DE20016009447T	20010606
DE60109447 T2	20060112	DE20016009447T	20010606
DE60109447 T3	20110818	DE20016009447T	20010606
DK1292767 T3	20050725	DK20010943572T	20010606
EP1292767 A1	20030319	EP20010943572	20010606
EP1292767 B1	20050316	EP20010943572	20010606
ES2240469 T3	20051016	ES20010943572T	20010606
FR2810374 A1	20011221	FR20000007813	20000619
FR2810374 B1	20040903	FR20000007813	20000619
JP2004501315 T2	20040115	JP20020504786T	20010606
JP4878722 B2	20120215	JP20020504786T	20010606
KR20030011902 A	20030211	KR20027017230	20010606
US2003194310 AA	20031016	US20020311686	20021219
US6921243 BB	20050726	US20020311686	20021219
WO0198655 A1	20011227	WO2001FR01747	20010606

Priority:

FR20000007813 20000619 EP20010943572 20010606 WO2001FR01747 20010606

Probable Assignee: AREVA NP

Assignee(s): (std): BRUTSAERT PATRICK ; CANINI JEAN MARC ; JEUMONT IND ; JEUMONT SA ; JEUMONT S A ; JEUMONT COURBEVOIE SA ; MILET YVES ; JEUMONT SA COURBEVOIE

Assignee(s): JSPM ; AREVA NP ; JEUMONT TOUR FRAMATOME SA ; JEUMONT INDUSTRIE

Inventor(s): (std): CANINI JEAN MARC ; MILET YVES ; BRUTSAERT PATRICK ; BRUTSAERT JEAN MARC CANINI YVE ; JEAN MARC CANINI ; YVES MILET ; PATRICK BRUTSAERT ; JEAN MARC CANINI YVES MILET PATRICK BRUTSAERT

Agent(s): ROBIC ; CABINET LAVOIX ; CONNOLLY BOVE LODGE AND HUTZ LLP

Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT JP KP KR LI LU MC MN MX NL NO NZ PT SE TR US

7) Family number: 70570462 (WO18135956A1)

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Title: METHOD OF GENERATING ALTERNATING CURRENT ELECTRIC ENERGY AND **ELECTRIC GENERATOR**

Abstract: A generator of electrical energy contains an alternator having a **rotor** with **magnets** fixed thereto, and a **stator** with operating coils which are under the influence of the **magnetic** fields emitted by the **rotor magnets**. The **rotor** is made up of at least two discs (1) coupled to the shaft, where each of the discs is fitted with magnets (4) positioned so that only identical poles of the magnets (4) are found on each side of each rotor disc (1), and where the adjacent rotor discs (1) face each other with identical poles of magnets (4), and placed in the space between the **magnets** (4) of the adjacent **rotor** discs

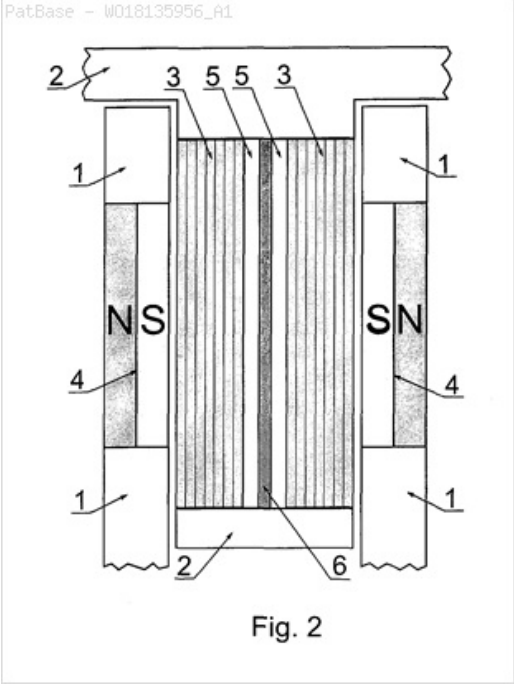
(1) are at least two sets (14) of **stator** operating coils, with each of the sets (14) containing **stator** operating coil blocks (3) in a number equal to no more than half the number of **magnets** (4) on the **rotor** disc (1) adjacent thereto, and each **stator** operating coil block (3) contains at least one operating coil, where the outer and inner contour of the **stator** operating coil blocks (3) is given the shape similar to a circle section with rounded apexes, and the **stator** operating coil blocks (3) in a given set (14) form the **stator** disc (15).

Classifications:

International (IPC 8-9): H02K16/00 H02K21/24

H02K53/00 (Advanced/Invention)

CPC: H02K21/24 H02K16/00



Family:

Publication number	Publication date	Application number	Application date
PL420221 A1	20180730	PL20170420221	20170117
WO18135956 A1	20180726	WO2018PL00005	20180115

Priority:

PL20170420221 20170117

Probable Assignee: JARZABEK IRENEUSZ

Assignee(s): (std): JARZABEK IRENEUSZ

Inventor(s): (std): JARZABEK IRENEUSZ

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 DJ 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 IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC 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 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

8) Family number: 61052526 (MX344546B)

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Title: SPHERICAL-SHAPED **ELECTRIC GENERATOR**.

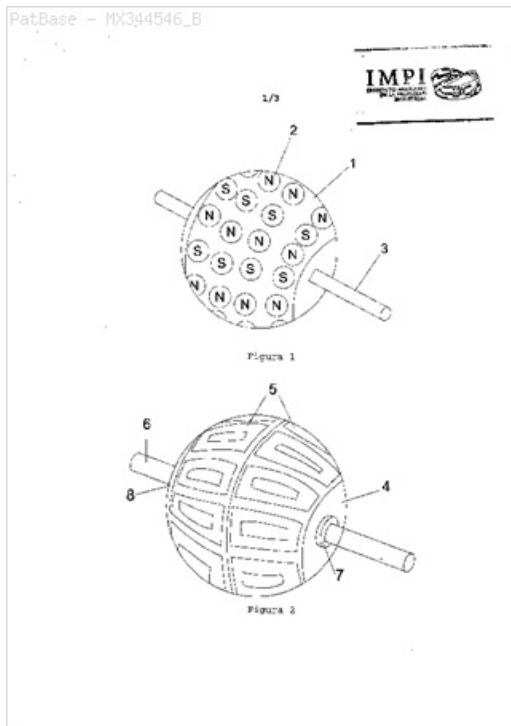
Abstract: Nowadays there is a plurality of configurations of **electric generators** based on **permanent magnets**. 2 options are mostly used in applications of power harvest: axial configuration and radial configuration. Both configurations are based on a disc over which the **permanent magnets** are mounted, these **magnets** acting as a **rotor**, an additional disc being used for mounting windings that act as a **stator**. Depending on the arrangement of the magnets with regard to the spin axis, the generator will be called axial or radial. This arrangement of discs in parallel allows more than two discs to be incorporated with the purpose of increasing the induced voltage or the current capacity of the **electric generator**. However, the increase in the amount of discs has an impact in the weight of the mechanism and in its distribution and balance point, which complicates the implementation of the same. The use of a mechanism based on a spherical geometry helps to reduce the size of the diameter and allows a higher voltage to be obtained at a higher current induced according to the arrangement of the **stator**. Fig. 1 shows the rotor sphere that incorporates an arrangement of **permanent magnets** distributed in an organized manner for emulating the effect of two axial discs in parallel. In this manner, besides reducing the diameter required for obtaining a value of induced power and voltage, unlike in an axial configuration, it also includes a parallel system for increasing the induced current or voltage. Fig. 2 shows the **stator** sphere, which incorporates a winding arrangement over its surface, the windings may be arranged in a single-phase or poly-phase configuration depending on the needs. The operation principle of the generator sphere is based on the Faraday induction principle, for which the **stator** sphere is located around the rotor, the rotor sphere being rotated and the **stator** sphere maintained free of movement, so that obtaining induced voltage in the terminals of the same. Fig. 3 shows the generator mechanism including both coupled stages (rotor and **stator**).

Classifications:

International (IPC 8-9): H02K1/06 (Advanced/Invention);

H02K1/00 (Core/Invention)

CPC: Y02T10/641

**Family:**

Publication number	Publication date	Application number	Application date
MX2014001583 A1	20150810	MX20140001583	20140210
MX344546 B	20161118	MX20140001583	20140210

Priority:

MX20140001583 20140210

Probable Assignee: SECRETARIA DE EDUCACION PUBLICA TECNOLOGICO NAC DE MEXICO**Assignee(s):** (std): SECRETARIA DE EDUCACION PUBLICA TECNOLOGICO NAC DE MEXICO**Assignee(s):** SECRETARIA DE EDUCACION PUBLICA TECNOLOGICO NACIONAL DE MEXICO**Inventor(s):** (std): ALEJANDRO TAPIA HERNANDEZ ; HERNANDEZ ALEJANDRO TAPIA ; MARIO PONCE SILVA ; PEREGRINO VICTOR HUGO OLIVARES ; SILVA MARIO PONCE ; VICTOR HUGO OLIVARES PEREGRINO**9) Family number: 41820539 (US2008116829A)**

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Title: EFFICIENT AC CIRCUIT FOR MOTOR WITH LIKE NUMBER OF POLES AND MAGNETS

Abstract: Simple AC circuitry driving a brush-less motor having a rotor consisting of alternate polarity **permanent magnets** poles, with the **rotor** journaled in a **stator** with a like number of wound poles having only two free ends for energizing. The motor is using only two AC electronic switches for starting and accelerating, and an AC switch to run the motor at synchronous speed. It has higher efficiency than previously known circuits, uses less parts and is less costly.

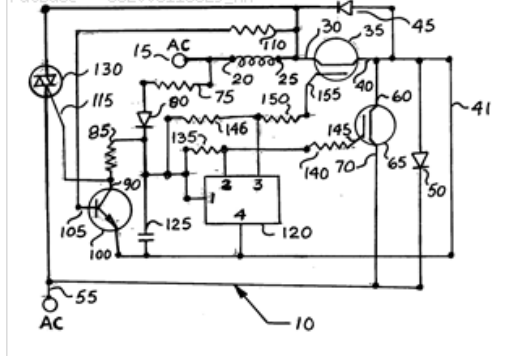
Classifications:**International (IPC 8-9):** H02P1/04 H02P1/46 H02P6/08 H02P6/14

H02P6/20 (Advanced/Invention);

H02P1/00 H02P6/08 H02P6/14 (Core/Invention)

CPC: H02K3/28 H02K29/03 H02P1/04 H02P6/182**European:** H02K29/03 H02P1/04 H02P6/18E T02K3/28**US:** 318/400.11 318/400.110P 318/400.13 318/400.17 318/400.26 318/400.38 318/700

PatBase - US2008116829_AA

**Family:**

Publication number	Publication date	Application number	Application date
US2008116829 AA	20080522	US20060599844	20061116
US2010225260 AA	20100909	US20100660831	20100305
US8581539 BB	20131112	US20100660831	20100305

Priority:

US20060599844 20061116

US20100660831 20100305

Probable Assignee:

GERFAST STEN R

Assignee(s): (std):

GERFAST STEN R

Inventor(s): (std):

GERFAST STEN R

Agent(s):

STEN R GERFAST; STEN GERFAST

Title: **ELECTRIC GENERATOR**

Abstract: An electric energy generator includes a driving shaft designed to be coupled to an external energy source having a predetermined torque, a synchronous reluctance rotating electric machine having a **stator** and a transverse-laminated rotor, and a driven shaft operatively coupled to the drive shaft for generating electric energy with a predetermined torque ripple amplitude, an electric connection for injecting the electric energy so generated into the net, a control system designed to adjusting electrical and dynamic parameters of the electric machine. The **stator** has an even number of longitudinal grooves for each pair of poles and the rotor has a plurality of adjacent slots defining an even number of magnetically equivalent slots. The number of grooves is different from the number of equivalent slots multiplied by an integer, the difference between the number of grooves and the number of equivalent slots being different from zero, +2 and -2.

Classifications:**International (IPC 8-9):** H02K1/27 H02K19/24 H02K9/06

H02K9/12 (Advanced/Invention);

H02K1/00 H02K19/00 H02K9/00 (Core/Invention)

CPC: H02K1/27 H02K19/24 H02K7/1823 H02K9/18 H02K9/19

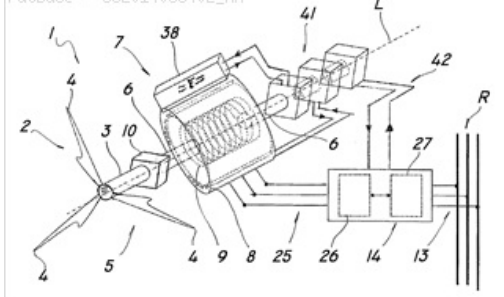
H02K2213/03

European: H02K19/24 T02K213/03 T02K7/18A2 T02K9/18

T02K9/19

US: 310/156.53 310/46

PatBase - US2014035402_AA

**Family:**

Publication number	Publication date	Application number	Application date
CN103314510 A	20130918	CN201180064699	20111130
CY1116381 T1	20170208	CY20151100313T	20150331
DE602011012785 D1	20150219	DE201160012785T	20111130
DK2647111 T3	20150407	DK20110807754T	20111130
EP2647105 A2	20131009	EP20110804808	20111130
EP2647111 A2	20131009	EP20110807754	20111130
EP2647111 B1	20141231	EP20110807754	20111130
EP2647111 B8	20150225	EP20110807754	20111130
ES2533308 T3	20150409	ES20110807754T	20111130
HR20150368 T1	20150508	HR20150000368	20150330
IN04131CN2013 A	20160610	IN2013CN04131	20130528
IT1403055 B1	20130927	IT2010VI00323	20101130
ITVI20100323 A1	20120531	IT2010VI00323	20101130
PT2647111 T	20150414	PT20110807754T	20111130
RS53932 B1	20150831	RS20150000226	20111130
SI2647111 T1	20150430	SI20110030444T	20111130
SMT201500083 B	20150505	SM20150000083T	20150330
TR201503613 T4	20150521	TR20150003613T	20111130
US2014035402 AA	20140206	US20110989769	20111130
WO12073206 A2	20120607	WO2011B55393	20111130
WO12073206 A3	20120802	WO2011B55393	20111130
WO12073207 A2	20120607	WO2011B55395	20111130
WO12073207 A3	20120802	WO2011B55395	20111130

Priority:

IT2010VI00323 20101130

EP20110807754 20111130

WO2011B55393 20111130

WO2011B55395 20111130

Probable Assignee: KSB AG**Assignee(s):** (std): BERTOTTO EZIO ; ITACO S R L ; ITACO S R L ORA REEL S R L ; KLEIN SCHANZLIN AND BECKER AG ; REEL SRL ; KSB AG**Assignee(s):** REEL S R L ; ITACO SRL ; ITACO SRL ORA REEL SRL**Inventor(s):** (std): BERTOTTO EZIO**Inventor(s):** EZIO BERTOTTO**Agent(s):** MAROSCIA ANTONIO; ISERN JORGE; EMIN KORHAN DERICIOGLU

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

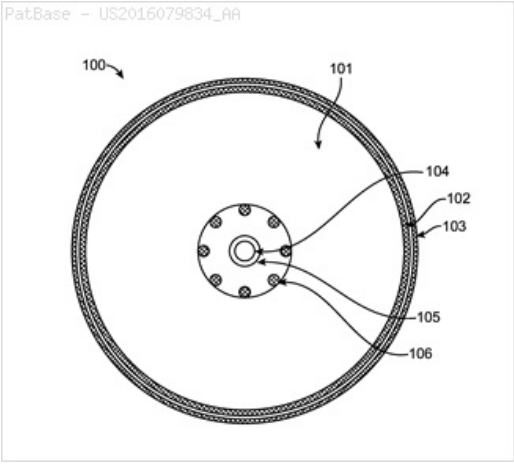
Title: LOW-MAINTENANCE COGLESS **ELECTRIC GENERATOR** FEATURING MAGNETIC LEVITATION

Abstract: A cogless **electric generator** consisting of a compressed nearly all copper air core **stator** placed within a surrounding rotor containing a plurality of **permanent magnets** is described which is particularly suitable for direct-drive integration with small-wind turbines. Such turbines become capable of generating electric energy at very low wind speeds. A particular focus is in reducing maintenance and operational costs of such a device by eliminating magnetic attraction of internal components typical of such generators and by reducing friction on bearings through the use of magnetic levitation. Techniques are employed to reduce eddy currents to increase the efficiency of the generator. Air scoops and air flow considerations combined with convective elements intimately in contact with and extending through the **stator**, allow heat

directly from the **stator** to be dissipated externally. When the generator is assembled and disassembled for service, there is no magnetic attraction or repulsion that would otherwise make such service difficult, dangerous or require special handling tools.

Classifications:

International (IPC 8-9): H02K1/27 H02K15/04 H02K3/28 H02K3/30 H02K7/08 H02K7/09 H02K9/00 H02K9/02 H02K9/22 (Advanced/Invention)
CPC: H02K1/27 H02K3/28 H02K9/22 H02K7/09 H02K3/47 H02K5/1677 H02K9/06 H02K11/20 H02K15/0478 H02K15/12 H02K21/12 H02K29/03
US: 29/596 310/156.01 310/43 310/90.5



Family:

Publication number	Publication date	Application number	Application date
US2016079834 AA	20160317	US20150855797	20150916

Priority:

US20140050935P 20140916 US20150855797 20150916

Probable Assignee: HANSEL STEVEN J

Assignee(s): (std): HANSEL STEVEN J ; MOSKOWITZ JAY ; PERLESS ROBERT

Inventor(s): (std): HANSEL STEVEN J ; MOSKOWITZ JAY ; PERLESS ROBERT

12) Family number: 31719753 (US2005046191A)

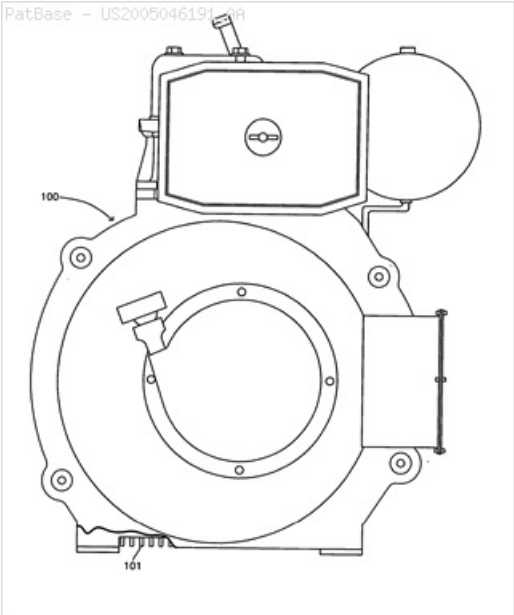
© PatBase

Title: LIGHTWEIGHT PORTABLE **ELECTRIC GENERATOR**

Abstract: A compact and lightweight **electric generator** for portable power applications employs a new engine design and integration approach for reducing engine and generator weight. A unique flywheel alternator generates electrical power and provides inertia for the engine, pressurized air for cooling, and inertia for the alternator. An engine cowling provides rotating component protection, a fan shroud mechanism, cooling air ducts, and a cooling mechanism for handling large quantities of heat produced by rectified power conversion.

Classifications:

International (IPC 8-9): F02B63/04 F02N11/08 H02K1/27 H02K11/04 H02K9/06 (Advanced/Invention); F01M11/00 F01P1/02 F01P1/06 F02B63/04 H02K7/18 (Advanced/Non-invention); H02K1/27 H02K11/04 H02K9/04 (Core/Invention); F01M11/00 F01P1/00 F02B63/00 H02K7/18 (Core/Non-invention)
International (IPC 1-7): H02K9/04
CPC: H02K11/046 H02K1/2786 F01M11/0004 F01P1/02 F01P1/06 F02B63/04 F05C2201/028 H02K7/1815 H02K9/06 H02K11/048 F02N3/02 F02N11/04 F02N11/0866 F02N2011/0896
European: H02K1/27C H02K11/04D H02K11/04D1 H02K9/06 R01M11/00B R01P1/02 R01P1/06 R02B63/04 R05C201/02M T02K7/18A1
US: 123/179.28 123/179.3 123/3 123/3P 123/41.31 123/41.310S 290/1 290/1.00AP 290/1.00AS 290/1A



Family:

Publication number	Publication date	Application number	Application date
US2005046191 AA	20050303	US20030649793	20030828
US2007227470 AA	20071004	US20070738569	20070423
US8820286 BB	20140902	US20070738569	20070423

Priority:

US20030649793 20030828 US20070738569 20070423

Probable Assignee: MAINSTREAM ENGINEERING CORP

Assignee(s): (std): COLE GREGORY S ; MAINSTREAM ENGINEERING CORP ; MASON DANIEL ; ROTH ROBERT PAUL ; SCARINGE ROBERT P ; TEWS BRIAN E

Inventor(s): (std): COLE GREGORY ; DAVIS RUSSELL ; SCARINGE ROBERT ; TEWS BRIAN ; TEWS BRIAN E ; SCARINGE ROBERT P ; ROTH ROBERT P ; MASON DANIEL ; COLE GREGORY S ; ROTH ROBERT PAUL

Inventor(s): ROTH ROBERT
Agent(s): CROWELL AND MORING LLP INTELLECTUAL PROPERTY GROUP; CROWELL AND MORING LLP, INTELLECTUAL PROPERTY GROUP

13) Family number: 29418804 (US2003201644A) © PatBase

Title: ALL-WEATHER ENERGY AND WATER PRODUCTION VIA STEAM-ENHANCED VORTEX TOWER

Abstract: Complex of additional or modified process steps and correspondent new or modified designs of units of steam-enhanced vortex electric station is described as continuation-in-part application out of parent application "All-Weather Energy and Water Production via Steam-Enhanced Vortex Tower", Kaploun S., Ser. No. 10/133,488, Filing Date Apr. 29, 2002, said complex makes said kind of station available for stable long operation in majority of the climatic zones and power loading regimes, including regions with winter negative temperatures during the calm or insufficient winds and/or low loads, said complex comprises: heat accumulation/release water-steam-air system using excessive solar, geothermal or/and waste low-temperature heat; large-rating three-phase vortex **electric generator** with hollow flow-through drum rotated by inside upward column vortex airflow; adjusted to said conditions modifications of voltage inducing magnetic concentrators used in described before [9] magneto-vortex **electric generator**

Classifications:

International (IPC 8-9): F03B13/00 F03B13/10 F03D9/00

H02P9/04 (Advanced/Invention);

F03B13/00 F03D9/00 H02P9/04 (Core/Invention);

F03H (Subclass/Invention)

International (IPC 1-7): F03B13/00 F03B13/10 F03D9/00 F03H H02P9/04

CPC: Y02B10/70 Y02B10/30 Y02P80/22 Y02P80/24 F05B2240/132

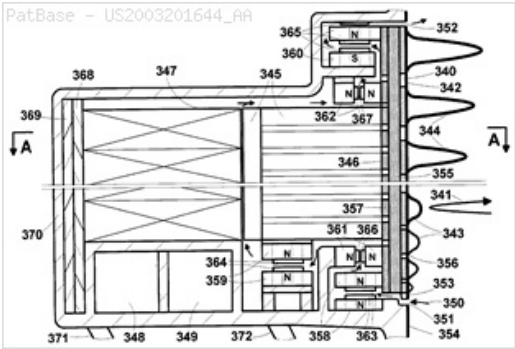
F05B2260/24 Y02E10/465 Y02E10/725 F03D9/39 F03D9/007

H02K7/183 F03D9/25 Y02E10/728

European: F03D9/00C H02K7/18A2W R05B240/132 R05B260/240

Y02B10/30 Y02E10/46U Y02E10/72H

US: 290/43 290/43P 290/44 290/54 290/54P 290/55



Family:

Publication number	Publication date	Application number	Application date
AU2003209639 AA	20031117	AU20030209639	20030303
AU2003209639 AH	20031117	AU20030209639	20030303
US2003201644 AA	20031030	US20020310888	20021206
US2003201646 AA	20031030	US20020133488	20020429
US6943461 BB	20050913	US20020133488	20020429
US7154190 BB	20061226	US20020310888	20021206
WO03093673 A2	20031113	WO20031L00158	20030303
WO03093673 A3	20040108	WO20031L00158	20030303

Priority:

US20020133488 20020429 US20020310888 20021206 WO20031L00158 20030303

Probable Assignee: KAPLOUN SOLOMON

Assignee(s): (std): KAPLOUN SOLOMON

Inventor(s): (std): KAPLOUN SOLOMON ; SOLOMON KAPLOUN

Agent(s): LO TOMPAKOV; TOMPAKOV GALINA; GALINA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

14) Family number: 51331827 (WO12080586A1) © PatBase

Title: **STATOR** FOR AN **ELECTRIC GENERATOR**

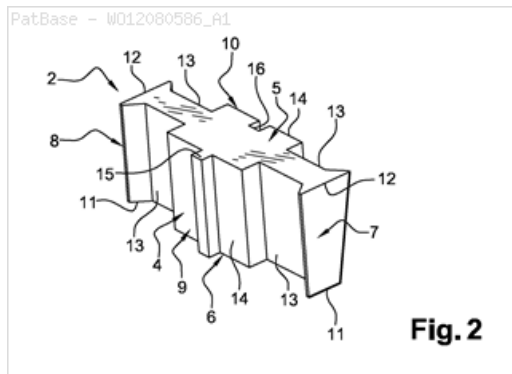
Abstract: The present invention relates to a **stator** (1) for an **electric generator**, comprising a disk that is made of a magnetic material and that includes a plurality of elements (2, 17) made of a composite magnetic material arranged annularly around the axis of the **stator** (1), characterized in that each of said elements (2, 17) comprises a means for rigidly connecting adjacent elements (2, 17) together, consisting of portions (15, 16, 17) of elements (2, 17) having complementary shapes forming contact surfaces, and in that said contact surfaces are arranged transversely relative to the magnetic field lines generated in the disk when the generator is operating. The invention further relates to a method for manufacturing a **stator** (1) comprising a plurality of elements (2, 17) made of a composite magnetic material, including the steps of compacting the elements (2, 17) under pressure so as to obtain a means for rigidly connecting adjacent elements (2, 17) together, consisting of portions (15, 16, 17) of elements (2, 17) having complementary shapes forming contact surfaces, assembling the elements (2, 17) so as to form the **stator** (1), annealing the thus-assembled elements (2, 17) in an oven at a temperature of between 200 degrees centigrade and a maximum temperature enabling mechanical consolidation and optimized mechanical and electrical performance.

Classifications:

International (IPC 8-9): H02K1/18 (Advanced/Invention)

CPC: H02K1/02 H02K1/14 H02K1/148 H02K15/02 H02K15/12

European: H02K1/02 H02K1/14 H02K1/14D1 H02K15/02 H02K15/12



Family:

Publication number	Publication date	Application number	Application date
WO12080586 A1	20120621	WO2010FR52778	20101217

Priority:

WO2010FR52778 20101217

Probable Assignee: VERTEOLE

Assignee(s): (std): AZZI LHOUCINE ; CHEVALLIER PATRICK ; VERTEOLE

Inventor(s): (std): CHEVALLIER PATRICK ; AZZI LHOUCINE

Agent(s): CABINET GERMAIN AND MAUREAU

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 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 RO RS RU 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

15) Family number: 45548840 (ES2341639B)

© PatBase

Title: GENERADOR ELECTRICO TERMODINAMICO THERMODYNAMIC **electric generator** (Machine translation)

Abstract: Source: ES2341639B [ES] Generador electrico termodinamico. Se describe un generador electrico concebido y disenado para aprovechar las corrientes de conveccion que se originan a traves de los tubos de evacuacion que comunican un ambiente interior con un ambiente exterior, entre cuyos ambientes existe una cierta diferencia de temperatura. El generador incluye un molino - extractor compuesto por alabes y capacitado para girar sustentado por un eje vertical concéntrico con el tubo, e incorpora un dispositivo de tipo alternador con el rotor unido a un faldon proyectado desde el molino - extractor y concéntrico con la porcion de tubo de evacuacion en la que se acopla, y un estator solidario con dicho tubo de evacuacion. La realizacion preferente preve imanes de neodimio dispuestos en corona para la formacion del rotor, y bobinados en U para la realizacion del estator. En una version alternativa, el generador puede incluir un sistema de carenado orientable, para el direccionamiento del aire incidente a favor del giro del molino - extractor.

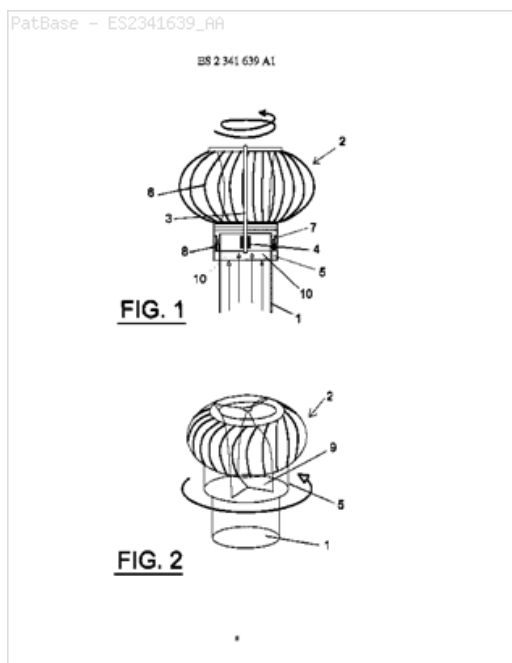
Machine translation: Thermodynamic **electric generator** . describes a generator conceived and designed to take advantage of convection currents that originate through evacuation tubes that connect the indoor environment with an outdoor environment, whose environments there is a certain temperature difference. The generator includes a mill - fan blades composed and able to turn supported by a vertical axis concéntrico with the tube, and incorporates an alternator type device with the rotor attached to a skirt projecting from the mill - extractor and concéntrico with the portion of evacuation tube in which it engages, and a **stator** integral with said evacuation tube. The preferred embodiment provides for **neodymium** magnets arranged in a crown for the formation of the rotor, and windings in U for the realization of the **stator**. In an alternative version, the generator may include an adjustable fairing system for addressing air incident in favor of turning the mill - extractor.

Classifications:

International (IPC 8-9): F03D3/00 (Advanced/Invention)

CPC: Y02B10/30 Y02E10/74 F03D3/005

European: Y02B10/30 Y02E10/74



Family:

Publication number	Publication date	Application number	Application date
ES2341639 AA	20100623	ES20090031310	20091230
ES2341639 BA	20110526	ES20090031310	20091230

Priority:

ES20090031310 20091230

Probable Assignee: E3 EFICACIA ENERGETICA EOLICA**Assignee(s):** (std): E3 EFICACIA ENERGETICA EOLICA ; E3 EFICACIA ENERGETICA EOLICA S L**Assignee(s):** E3 EFICACIA ENERGETICA EOLICA SL**Inventor(s):** (std): ESPANA MOSCOSO FRANCISCO JAVIE**Inventor(s):** FRANCISCO JAVIE ESPANA MOSCOSO**16) Family number: 47893845 (FR2946811B)**

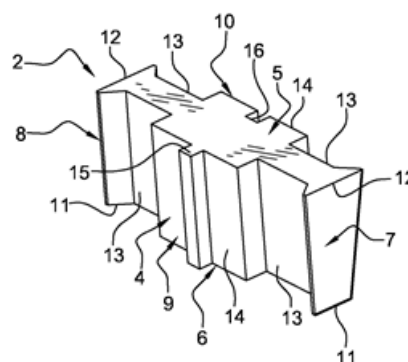
© PatBase

Title: **STATOR** POUR GENERATRICE ELECTRIQUE

Abstract: The **stator** has a magnetic material disk including magnetic material elements (2) arranged in an annular way around an axis of the **stator**. An integration unit is integrated between the magnetic material elements. Complementary portions have a bar shaped element and a shoulder (15) and are provided in the magnetic material elements for forming contact surfaces that are arranged in a transverse way to magnetic field lines that are created in a disk during operation of an **electric generator**. An independent claim is also included for a method for manufacturing a **stator** comprising magnetic material elements.

Classifications:**International (IPC 8-9):** H02K1/18 (Advanced/Invention)**CPC:** H02K1/02 H02K1/14 H02K1/148 H02K15/02 H02K15/12 Y02E10/725**European:** H02K1/02 H02K1/14 H02K1/14D1 H02K15/02 H02K15/12 Y02E10/72H

PatBase - FR2946811_A1

**Family:**

Publication number	Publication date	Application number	Application date
FR2946811 A1	20101217	FR20090053877	20090611
FR2946811 B1	20110701	FR20090053877	20090611

Priority:

FR20090053877 20090611

Probable Assignee: LHOUCINE AZZI**Assignee(s):** (std): AZZI LHOUCINE ; CHEVALLIER PATRICK**Assignee(s):** LHOUCINE AZZI ; PATRICK CHEVALLIER**Inventor(s):** (std): AZZI LHOUCINE ; CHEVALLIER PATRICK**Inventor(s):** LHOUCINE AZZI ; PATRICK CHEVALLIER**Agent(s):** CABINET GERMAIN ET MAUREAU**17) Family number: 42031890 (US2010052325A)**

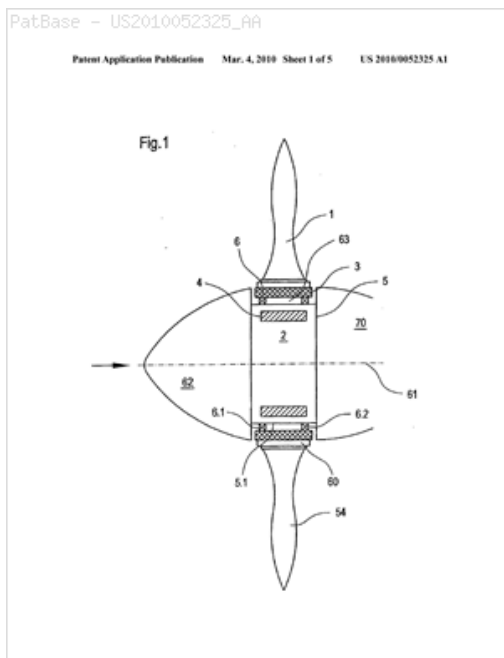
© PatBase

Title: ENERGY GENERATION PLANT DRIVEN BY WIND OR WATER CURRENTS

Abstract: Power generation plant for obtaining electrical power from a water or air flow includes a turbine; an electrical generator, having a coaxial configuration of a rotor and a **stator**. The rotor is an external rotor and part of an annular support structure for the turbine. The **stator** is housed in a **stator** housing which is sealed to the ambient medium and a wall area of the sealed **stator** housing running in the area of the gap between rotor and **stator** so that the rotor is situated radially outside the sealed **stator** housing and the **magnetic** interaction between **rotor** and **stator** occurs through this wall area. A mount for the annular support structure includes the rotor. The mount is situated adjoining the gap between the rotor and **stator** and is supported on the external circumference of the sealed **stator** housing.

Classifications:**International (IPC 8-9):** F03B11/06 F03B13/00 F03B13/10 F03B3/04

F03B3/06 F03D1/06 F03D11/00 F03D11/04 F03D9/00 H02K7/18
H02P9/04 (Advanced/Invention);
F03B11/00 F03B13/00 F03D1/00 F03D11/00
F03D9/00 (Core/Invention)
CPC: F05B2260/74 F05B2270/109 Y02E10/226 Y02E10/721
Y02E10/722 Y02E10/725 F03D9/008 F03D15/20 F03B11/06 F03D9/25
F03D80/70 F05B2220/70642 F05B2220/7068 F05B2240/50
F05B2240/53 F05B2260/205 F16C17/14 F16C33/6692 H02K7/1838
European: F03B11/06 F03D11/00B F03D9/00C F16C17/14
F16C33/66L8L H02K7/18A2W R05B220/70642 R05B220/7068
R05B240/50 R05B240/53 R05B260/205 R05B260/74 R05B270/109
Y02E10/22D Y02E10/72B Y02E10/72D Y02E10/72H
US: 290/44 290/52 290/52P 290/54 290/54S 290/55 290/55S



Family:

Publication number	Publication date	Application number	Application date
CA2676013 AA	20090720	CA20072676013	20071123
CA2676013 C	20141118	CA20072676013	20071123
DE102007003618 A1	20080724	DE200710003618	20070118
EP2087234 A2	20090812	EP20070846774	20071123
KR101460123 B1	20141110	KR20097016121	20071123
KR20090100432 A	20090923	KR20097016121	20071123
TW200835852 A	20080901	TW20070149647	20071224
TWI401360 B	20130711	TW20070149647	20071224
US2010052325 AA	20100304	US20070448956	20071123
US8436483 BB	20130507	US20070448956	20071123
WO08086839 A2	20080724	WO2007EP10173	20071123
WO08086839 A3	20081120	WO2007EP10173	20071123

Priority:

DE200710003618 20070118 WO2007EP10173 20071123

Probable Assignee: VOITH PATENT GMBH

Assignee(s): (std): HOLSTEIN BENJAMIN ; PERNER NORMAN ; VOITH PATENT GMBH

Assignee(s): VOITH PATENT GMBHST. POLTENER STRASSE 4389522HEIDENHEIMDE

Inventor(s): (std): BENJAMIN HOLSTEIN ; HOLSTEIN BENJAMIN ; NORMAN PERNER ; PERNER NORMAN

Inventor(s): PERNER NORMANDE ; HOLSTEIN BENJAMINDE

Agent(s): GOWLING LAFLEUR HENDERSON LLP; DR WEITZEL AND PARTNER; OHLANDT GREELEY RUGGIERO AND PERLE LLP; OHLANDT GREELEY RUGGIERO AND PERLE L L P; WEITZEL AND PARTNER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

18) Family number: 41737916 (US2011037333A)

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Title: VARIABLE MAGNETIC GEARS

Abstract: A magnetic gear comprising: a first movable member having a first set of magnetic poles, a second movable member having a second set of magnetic poles, and a third movable member having a set of pole pieces; wherein the first and second members have magnetic poles at different spacings and the pole pieces are arranged to modulate the magnetic field acting between the magnetic poles, and control means arranged to control rotation of one of the members so as to vary the gear ratio between the other two members.

Classifications:

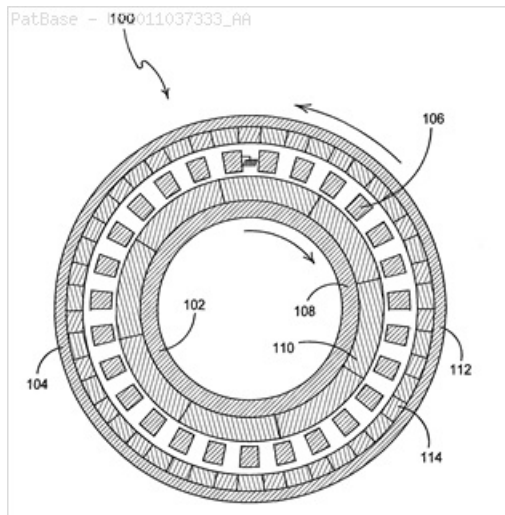
International (IPC 8-9): F03D9/00 F16H49/00 H02K16/00 H02K16/02 H02K47/10 H02K49/00 H02K49/06 H02K49/10 H02K51/00 H02K7/10 H02K7/11 H02K7/116 H02K7/18 H02P15/00 (Advanced/Invention); H02K7/11 H02K7/18 (Advanced/Non-invention); F16H49/00 H02K16/00 H02K49/00 H02K51/00 H02K7/10 H02K7/18 (Core/Invention); H02K7/10 (Core/Non-invention)

International (IPC 1-7): F16H49/00 H02K7/11

CPC: H02K41/03 H02K49/00 H02K49/10 F16H49/005 H02K49/06 H02K7/1838 H02K51/00 H02K7/11 H02K49/102 Y02E10/725

European: F16H49/00C H02K49/06 H02K49/10B H02K51/00 H02K7/11 H02K7/18A2W T02K41/03 T02K7/11 T02K7/18A2 T02K7/18A2W T02K7/18A2W2 Y02E10/72H

US: 1/1 290/1.00CP 290/1C 290/44 290/44S 310/103 310/103S 310/104 310/114 310/114P 310/94 310/94P 310/98 310/98P

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Priority:
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US20110995798 20110207 US20140265135 20140429

Probable Assignee: MAGNOMATICS LTD

Assignee(s): (std): ATALLAH KAIS ; CLARK RICHARD EDWARD ; MAGNOMATICS LTD ; RENS JAN JOZEF

Assignee(s): MAGNOMATICS LIMITED

Inventor(s): (std): JAN JOZEF RENS ; ATALLAH KAIS ; RENS JAN JOZEF ; CLARK RICHARD EDWARD ; RENS JAN ; EDWARD CLARK RICHARD ; JOZEF RENS JAN ; KAIS ATALLAH

Inventor(s): RICHARD EDWARD CLARK ; RENS JAN JOZEF 3018 WIJGMAAL ; ATALLAH KAIS SHEFFIELD

Agent(s): BOEHMERT AND BOEHMERT ANWALTSPARTNERSCHAFT MBB PATENTANWALTE RECHTSANWALTE; MUELLER BORE AND PARTNER PATENTANWALTE PARTG MBB; BOCKHORN AND KOLLEGEN PATENT U RECHTSANWALTE; TURNBULL ALEXANDER JAMES; HOWSON RICHARD GILES BENTHAM; SMALL GARY JAMES; HOWSON RICHARD GB; CARPMAELS AND RANSFORD; CARPINTERO MARIO; IZQUIERDO MARIA ALICIA; HARTMAN AND HARTMAN PC; BAKER AND HOSTETLER LLP; DORSEY AND WHITNEY LLP

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 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 KS 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

19) Family number: 54123935 (US2015145364A)

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Title: HIGH EFFICIENCY AC DC ELECTRIC MOTOR, ELECTRIC POWER GENERATING SYSTEM WITH VARIABLE SPEED, VARIABLE POWER, GEOMETRIC ISOLATION AND HIGH EFFICIENCY CONDUCTING ELEMENTS

Abstract: A method and apparatus for reducing electromagnetic drag in an electric machine may include a laminated **stator** having wire slots disposed around the inner periphery spaced into sectors separated by a pole iron support structure. The slots contain induction windings. A series of wound lateral pole irons may be arranged around the inner periphery of the **stator**, the first ends of which extend into the slots in the sectors. A support structure supports the lateral pole irons by forming a circular opening concentric with the inner periphery of the **stator**. A rotor may be inserted into the circular opening of the lateral pole iron support structure and supported at the **stator** lateral pole iron ends by a support means. A plurality of rotor inserts may contain free-wheeling **permanent magnet** inserts spaced along an outer periphery of the rotor. The rotor may be inserted into the circular opening of the lateral pole iron support structure and the free-wheeling **permanent magnet** inserts may be inserted into cavities along the outer periphery of the rotor.

Classifications:

International (IPC 8-9): H02K H02K16/00 H02K41/06 H02K47/14

H02K53/00 H02N H02N11/00 (Advanced/Invention);

H02K21/02 (Advanced/Non-invention);

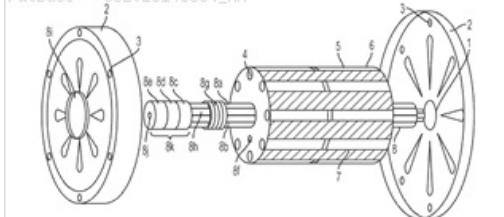
H02K16/00 H02K53/00 H02N11/00 (Core/Invention);

H02K H02N (Subclass/Invention)

CPC: H02K53/00 H02K16/00 H02K21/029

US: 310/113 74/DIG.009 74/DIG.9

PatBase - US2015145364_AA



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AU2017202527 AA	20170511	AU20170202527	20170418
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US2015145364 AA	20150528	US20130402007	20130521
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Priority:

US20110630600P 20111215 US20120688669P 20120518 US20120688668P 20120518
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AU20130261039 20130521 US20130402007 20130521 WO20131B54184 20130521
AU20170202527 20170418

Probable Assignee: REDEMPTIVE TECHNOLOGIES LTD

Assignee(s): (std): RAY HOLCOMB ROBERT ; REDEMPTECH HOLDINGS PTE LTD ; REDEMPTIVE TECHNOLOGIES LTD ; HOLCOMB ROBERT ; HOLCOMB ROBERT RAY ; ROBERT RAY HOLCOMB ; REDEMPTIVE TECH LTD

Assignee(s): REDEMPTIVE TECHNOLOGIES HOLCOMB ROBERT RAY LTD ; HOLCOMB ROBERT RAY24 DE CATRO STREETC/O REDEMPTIVE TECHNOLOGIES, LIMITEDAKARA BUILDINGWICKHAMS CAY IROAD TOWN TORTOLAVG ; REDEMPTIVE TECHNOLOGIES LTD24 DE CASTRO STREETAKARA BUILDINGWICKHAMS CAY IROAD TOWN TORTOLA TORTOLAVG

Inventor(s): (std): RAY HOLCOMB ROBERT ; ROBERT RAY HOLCOMB ; HOLCOMB ROBERT RAY RR ; HOLCOMB ROBERT RAY

Inventor(s): HOLCOMB ROBERT RAY24 DE CATRO STREETC/O REDEMPTIVE TECHNOLOGIES, LIMITEDAKARA BUILDINGWICKHAMS CAY IROAD TOWN TORTOLAVG

Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; BERESKIN AND PARR LLP SENCRL SRL; CLARKE MODET AND CO CHILE LIMITADA; TOTHILL JOHN PAUL; GE BO; LUDIYANTO SH; SOROKER AGMON NORDMAN; TAKAHASHI HAYASHI AND PARTNER PATENT ATTORNEYS INC; HOYNG ROCK MONEGIER LLP; DAVID P; BABAYI ROBERT S; SCOTT ROBERT 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 MY MZ NA NE NG NI NL NO NZ OM PA 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

20) Family number: 61595995 (US2016036308A)

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Title: VARIABLE TORQUE MOTOR/GENERATOR/TRANSMISSION

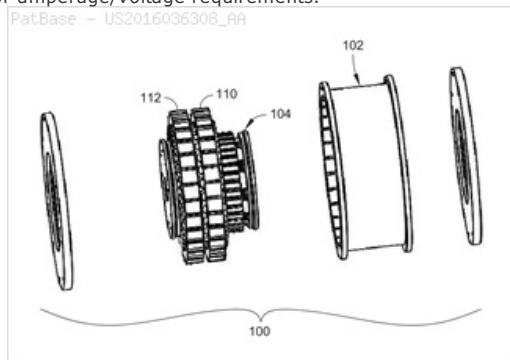
Abstract: The present disclosure is directed to an **electric generator** and motor transmission system that is capable of operating with high energy, wide operating range and extremely variable torque and RPM conditions. In accordance with various embodiments, the disclosed system is operable to: dynamically change the output "size" of the motor/generator by modularly engaging and disengaging rotor/**stator** sets as power demands increase or decrease; activate one **stator** or another within the rotor/**stator** sets as torque/RPM or amperage/voltage requirements change; and/or change from parallel to series winding configurations or the reverse through sets of 2, 4, 6 or more parallel, three-phase, non-twisted coil windings with switchable separated center tap to efficiently meet torque/RPM or amperage/voltage requirements.

Classifications:

International (IPC 8-9): B60K6/26 B60L11/02 B60L50/10 B61C9/38 B63H21/14 B63H21/20 B63H23/10 H02K1/30 H02K16/04 H02K19/16 H02K21/02 H02K3/28 H02K7/18 H02K7/20 H02P25/18 H02P31/00 (Advanced/Invention); B60K6/26 B63H21/20 (Advanced/Non-invention)

CPC: H02K16/04 B63H2021/202 Y10S903/906 Y02T70/5236 H02P25/188 H02K7/183 H02P31/00 B63H2021/205 H02K21/024 H02P25/184 H02K7/1823 H02K11/35 H02K19/16 H02K3/28 B63H21/20 B63H21/14 B63H23/10 B60K6/26 B60K2006/262 H02K2213/09

US: 1/1 290/45 290/9 310/198 310/91 903/906



Family:

Publication number	Publication date	Application number	Application date
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EP3175538 A1	20170607	EP20150826799	20150731
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US2019068102 AA	20190228	US20180109147	20180822
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Priority:

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Probable Assignee: FALCON POWER LLC

Assignee(s): (std): FALCON POWER LLC

Inventor(s): (std): MCDONALD MATTHEW C ; MCDONALD HARLEY C ; BAILEY JAMES L

Inventor(s): C MCDONALD, HARLEY C. ; C MCDONALD, MATTHEW C. ; L BAILEY, JAMES L.

Agent(s): HAMER CHRISTOPHER K; ADVENT LLP; KEVIN E; WEST KEVIN E; ANTONSON ERIK M; ABOU NASR FAISAL K

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 DJ 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 IR IS IT JP KE KG KH KM KN KP KR KW 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 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