

Search query (2): [SP]: cogenerating dynamic ups ups dynamique cogeneratrice ups dinamica cogeneradora the invention relates to a cogenerating dynamic ups consisting of a) a rack (1) with a rod structure (2) and a containment ring (3) where the bearings, the shaft (16), and the starter motor (4) are mounted b) a stator (7) with coils (5) and cores (6) capacitors and supercapacitors (17) c) a rotor (9) with two concentric channels (10) where the neodymium magnets (11) are arranged, in addition to a mass-carrying centre for the flanges (12) d) a programmable logic controller plc module (8) e) bridge rectifiers f) flanges (12) that are coupled to the starter motor (4) by means of the shaft (16) and support the rotor (9) g) an electronic three-phase inverter (13) j) an interface module (14) comprising an assembly of transistors and power-controlled weak-current-coupling semiconductors k) two collector air-core coils (15) for the positioning of the plate and l) a battery bank. l'invention concerne une ups dynamique cogeneratrice, comprenant: a) un chassis (1) a structure en tiges (2) et un anneau de contention (3) ou sont montes les roulements, l'axe (16) et le moteur de demarrage (4) b) un stator (7) avec bobines (5) et noyaux (6) des condensateurs et des supercondensateurs (17) c) un rotor (9) a deux canaux concentriques (10) ou sont disposes les aimants de neodyme (11), et un centre porte-masse pour les brides (12) d) un module logique programmable plc (8) e) des ponts redresseurs f) des brides (12) qui s'accouplent au moteur de demarrage (4) par l'intermediaire de l'axe (16) et supportent le rotor (9) g) un inverseur triphase (13) electronique j) un module d'interface (14) comprenant un ensemble de transistors, de semi-conducteurs a couplage de courants basse tension a commande de puissance k) deux bobines collectrices (15) a noyau d'air pour le positionnement du plateau et i) un banc de batteries. ups dinamica cogeneradora, la cual consiste de: a) un chasis (1) con estructura en varillas (2) y un aro de contention (3) donde se montan los rodamientos, el eje (16), el motor de inicio (4) b) un estator (7) con bobinas (5) y nucleos (6) capacitores y super-capacitores (17) c) un rotor (9) con dos canales concentricos (10) donde van los imanes de neodimio (11), y un centra porta masa para las bridas (12) d) un modulo logico programable plc (8) e) puentes rectificadores f) bridas (12) que se acoplan al motor iniciador (4) por medio del eje (16) y soporta el rotor (9) g) inversor trifasico (13) electronico j) un modulo de interface (14) que consta de un conjunto de transistores, semiconductores de acople de corrientes debiles a mando de potencia k) dos bobinas captoras (15) con nucleo de aire del posicionamiento del plato y i) banco de baterias.

Results: 6

Nicolas Vargas

1) Family number: 63370610 (WO16134679A1)

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Title: COGENERATING DYNAMIC UPS

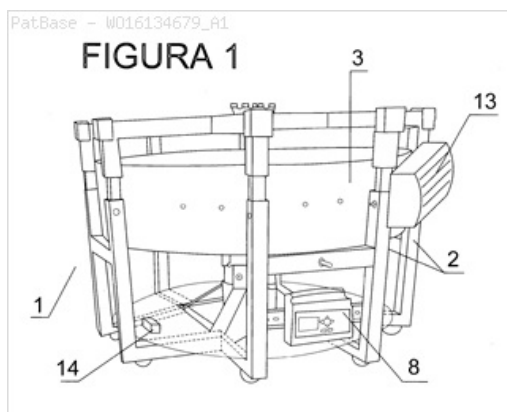
Abstract: The invention relates to a cogenerating dynamic UPS consisting of a) a rack (1) with a rod structure (2) and a containment ring (3) where the bearings, the shaft (16), and the starter motor (4) are mounted; b) a stator (7) with coils (5) and cores (6); capacitors and supercapacitors (17); c) a rotor (9) with two concentric channels (10) where the neodymium magnets (11) are arranged, in addition to a mass-carrying centre for the flanges (12); d) a programmable logic controller PLC module (8); e) bridge rectifiers; f) flanges (12) that are coupled to the starter motor (4) by means of the shaft (16) and support the rotor (9); g) an electronic three-phase inverter (13); j) an interface module (14) comprising an assembly of transistors and power-controlled weak-current-coupling semiconductors; k) two collector air-core coils (15) for the positioning of the plate; and l) a battery bank.

Classifications:

International (IPC 8-9): H02J7/16 H02J9/08

H02P9/00 (Advanced/Invention)

CPC: H02J7/16 H02J9/08 H02P9/00 H04B3/54



Family:

Publication number	Publication date	Application number	Application date
CO20170002808 A2	20170331	CO20170002808	20170324
EP3264568 A1	20180103	EP20150883047	20150224
WO16134679 A1	20160901	WO2015C000003	20150224

Priority:

WO2015C000003 20150224

Probable Assignee: E DINA ENERGY S A S

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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 IR 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 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

2) Family number: 32752059 (US2006061334A)

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Title: APPARATUS AND METHOD FOR TRANSIENT AND UNINTERRUPTIBLE POWER

Abstract: Source: US2006061334A [EN] In accordance with certain exemplary embodiments, the present technique

provides methods and apparatus for providing transient and uninterrupted power to protected loads. As one example, the present invention provides an induction device that operates as an induction motor to energize a kinetic energy storage device, such as a flywheel, during conventional operating conditions. However, in the event of a loss of primary power, the induction device, which is fed ac power at variable frequencies, begins to operate as an induction generator. For example, by varying the frequency of the input ac power such that the synchronous speed of the motor is exceeded by the rotating flywheel, the induction device acts as an induction generator and provides a transient operating power to the downstream loads until an auxiliary power source, such as a diesel generator, is brought on line.

Classifications:

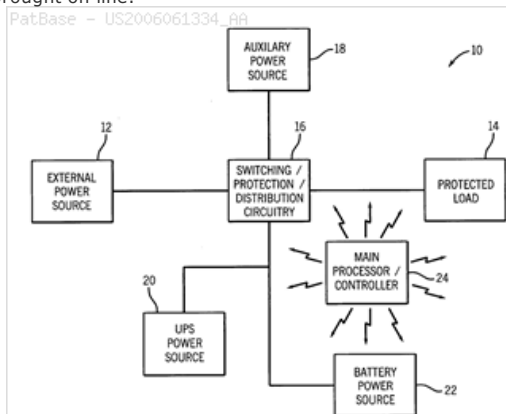
International (IPC 8-9): F02D29/06 H02K7/02 (Advanced/Invention);

F02D29/06 H02K7/00 (Core/Invention)

CPC: H02J9/066 H02K7/025 Y02E60/16

European: H02J9/06D H02K7/02B Y02E60/16

US: 290/38R 290/40C 322/10 322/14 322/28 322/29 322/4 322/8



Family:

Publication number	Publication date	Application number	Application date
US2006061334 AA	20060323	US20040944064	20040917
US7230344 BB	20070612	US20040944064	20040917

Priority:

US20040944064 20040917

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3) Family number: 42854575 (US2009021079A)

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Title: POWER SYSTEMS AND METHODS USING AN UNINTERRUPTIBLE POWER SUPPLY TO TRANSITION TO GENERATOR-POWERED OPERATION

Abstract: Source: US2009021079A [EN] A loss of a power source for a bus is detected. Responsive to detecting the loss of the power source, a voltage is generated on the bus using an uninterruptible power supply (UPS). A generator is transitioned to a desired output state concurrent with generating the voltage on the bus using the UPS. The generator is coupled to the bus responsive to the generator attaining the desired output state. The UPS may be used to provide power to a load connected to the bus while the generator is in transition. For example, detecting the loss of the power source may be preceded by operating a converter of the UPS coupled to the bus as a rectifier and generating the voltage on the bus using the UPS may include operating the converter of the UPS as an inverter.

Classifications:

International (IPC 8-9): H02J1/10 H02J3/38 H02J9/00

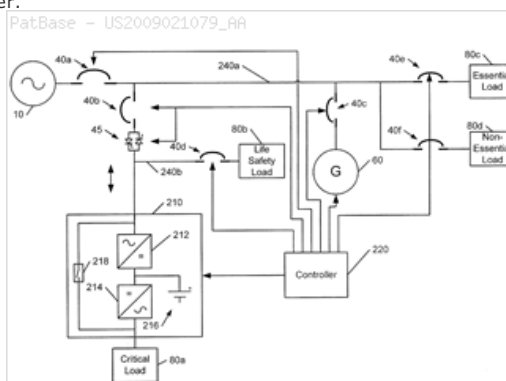
H02J9/06 (Advanced/Invention);

H02J1/10 H02J3/38 H02J9/00 H02J9/06 (Core/Invention)

CPC: Y10T307/344 Y10T307/636 H02J9/062 H02J9/066

European: H02J9/06C H02J9/06D

US: 307/23 307/68



Family:

Publication number	Publication date	Application number	Application date
CN101755375 A	20100623	CN200880025516	20080721
CN101755375 B	20130918	CN200880025516	20080721
EP2174399 A2	20100414	EP20080788903	20080721
EP2174399 B1	20170823	EP20080788903	20080721
US2009021079 AA	20090122	US20070780513	20070720
US7723863 BB	20100525	US20070780513	20070720
WO09013591 A2	20090129	WO20081B01893	20080721
WO09013591 A3	20090625	WO20081B01893	20080721

Priority:

US20070780513 20070720 WO20081B01893 20080721

Probable Assignee: EATON CORP

Assignee(s): (std): EATON POWER QUALITY CORP ; JOHNSON JR ROBERT W ; LOUCKS DAVID G ; WALLACE IAN T ; JONSSON LENNART R ; HEADQUIST TIMOTHY ; EATON CORP

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Agent(s): EMDE ERIC ; MYERS BIGEL SIBLEY AND SAJOVEC ; MYERS BIGEL SIBLEY AND SAJOVEC PA

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 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 ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

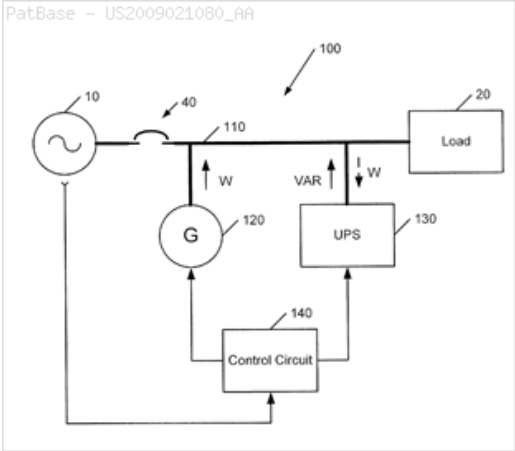
4) Family number: 42854646 (US2009021080A)

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Title: POWER SYSTEMS AND METHODS USING AN INDUCTION GENERATOR IN COOPERATION WITH AN UNINTERRUPTIBLE POWER SUPPLY

Abstract: Source: US2009021080A [EN] A power system includes a load bus configured to be connected to a power source, a generator and an uninterruptible power supply (UPS). The generator is operated as an induction generator to provide power to the load bus while providing reactive power to the load bus from the UPS. In some embodiments, prior to operating the generator as an induction generator, the generator is operated as an induction motor while the load bus is receiving power from the power source. Responsive to loss of the power source, the UPS may be used to maintain operation of the generator as an induction motor while the prime mover accelerates up to a speed sufficient to drive the generator as an induction generator.

Classifications:
International (IPC 8-9): H02J9/00 (Advanced/Invention); H02J9/00 (Core/Invention)
CPC: Y10T307/615 Y10T307/636 H02J9/08
European: H02J9/08
US: 307/64 307/68



Family:

Publication number	Publication date	Application number	Application date
US2009021080 AA	20090122	US20070780520	20070720
US7566990 BB	20090728	US20070780520	20070720

Priority:

US20070780520 20070720

Probable Assignee: EATON CORP

Assignee(s): (std): EATON CORP ; EATON POWER QUALITY CORP

Assignee(s): INTELLIGENT SWITCHGEAR ORGANIZATION LLC ; EATON ELECTRICAL INC

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Agent(s): MYERS BIGEL SIBLEY AND SAJOVEC ; MYERS BIGEL SIBLEY AND SAJOVEC PA

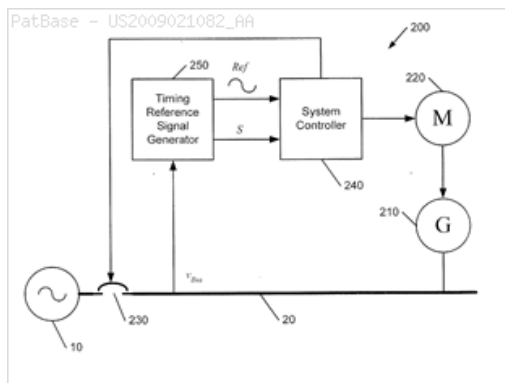
5) Family number: 42854655 (US2009021082A)

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Title: GENERATOR SYSTEMS AND METHODS USING TIMING REFERENCE SIGNAL TO CONTROL GENERATOR SYNCHRONIZATION

Abstract: Source: US2009021082A [EN] A power generation system includes a generator configured to be connected to a bus. The system also includes a timing reference signal generator circuit configured to detect a timing variation of a voltage on the bus and to generate a timing reference signal from a timing reference other than the voltage on the bus in response to detection of the variation. The system further includes a generator control circuit configured to synchronize operation of the generator to the timing reference signal.

Classifications:
International (IPC 8-9): H02J1/00 H02J3/08 H02J3/42 (Advanced/Invention); H02J1/00 H02J3/04 H02J3/40 (Core/Invention)
CPC: Y10T307/735 H02J9/08
European: H02J9/08
US: 290/40C 307/87 322/18



Family:

Publication number	Publication date	Application number	Application date
US2009021082 AA	20090122	US20070780524	20070720
US7635967 BB	20091222	US20070780524	20070720

Priority:

US20070780524 20070720

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6) Family number: 50793099 (US2012068541A)

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Title: POWER SUPPLY SYSTEMS AND METHODS EMPLOYING A UPS INTERFACED GENERATOR

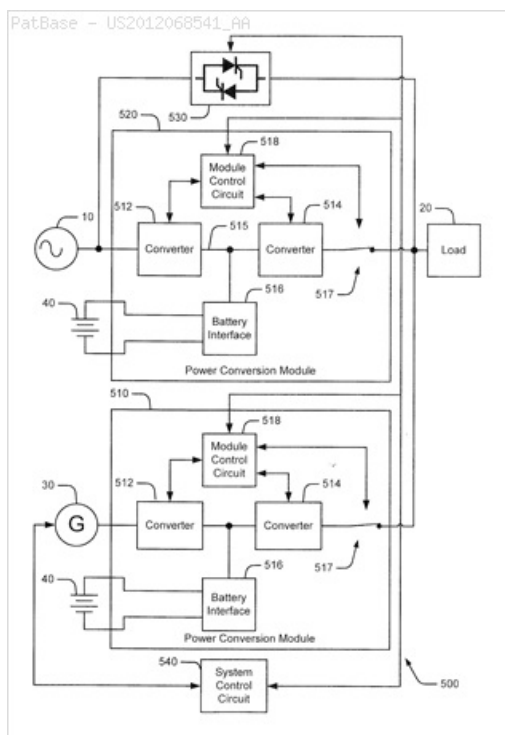
Abstract: Source: US2012068541A [EN] An uninterruptible power supply (UPS) system includes a power transfer circuit having a power output configured to be coupled to a load, a UPS circuit having first power input configured to be coupled to a generator, such as a diesel- or gas-powered engine-generator set. The UPS circuit also has a second power input configured to be coupled to a backup power source, such as a battery or other energy storage device. The UPS circuit further has a power output configured to be coupled in common to the load with the power output of the power transfer circuit. The UPS system further includes a control circuit operatively associated with the UPS circuit and configured to control provision of power to the load from the generator and the backup power source via the UPS circuit responsive to a status of the power transfer circuit. The power transfer circuit may include, for example, another UPS circuit or other power transfer device, such as a static switch.

Classifications:

International (IPC 8-9): H02J9/00 (Advanced/Invention)

CPC: H02J9/061 Y10T307/625

US: 307/66 307/66P



Family:

Publication number	Publication date	Application number	Application date
US2012068541 AA	20120322	US20100885946	20100920

Priority:

US20100885946 20100920

Probable Assignee: EATON CORP

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