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(71) Applicant (for all designated States except US): **REGEN TECHNOLOGIES, LLC** [US/US]; 2700 Inverness, Shaker Heights, OH 44122 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **PIERCE, Charles** [US/US]; 6713 Lawn Avenue, Cleveland, OH 44102 (US).

(74) Agent: **LEWIS, Leonard, L.**; Calfee, Halter & Griswold LLP, 800 Superior Ave., Ste. 1400, Cleveland, OH 44114 (US).

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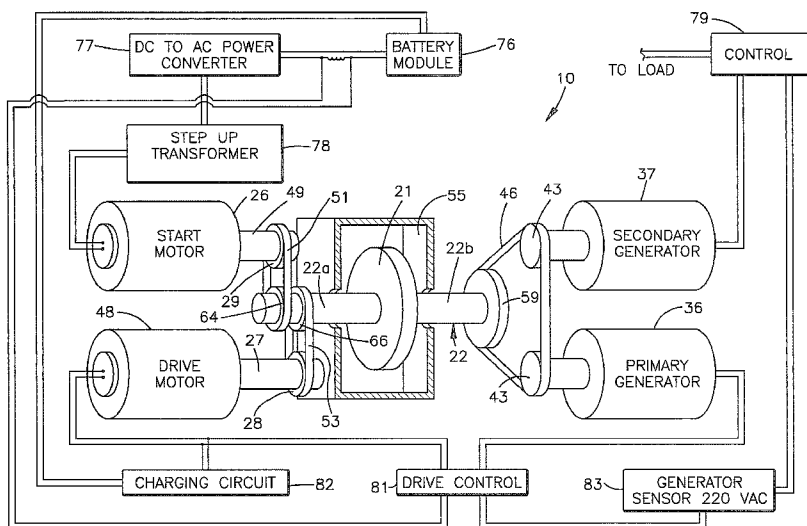


Fig.1

(57) Abstract: An electrical power generation system includes a kinetic energy storage device that drives at least one electric generator. A starter mechanism is coupled to the kinetic energy storage device to store an initial amount of kinetic energy in the storage device. At least one drive motor is also coupled to the kinetic energy storage device. The drive motor is configured to input kinetic energy into the kinetic energy storage device after the starter mechanism has input the initial amount of kinetic energy into the storage device to maintain the amount of kinetic energy in the storage device at an operational level. Some of the electrical power from the generator is used to power the drive motor and the remainder of the electrical power is output by the system.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/87767

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H02P 11/00 (2008.01)

USPC - 322/16

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)

IPC(8) - H02P 11/00

USPC - 322/4, 7, 16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 322/4, 7, 16 (text search - see terms below)

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

PubWEST(PGPB,USPT,USOC,EPAB,JPAB); Google Scholar

Search terms: flywheel, motor, drive, generator, transformer, storage, battery, clutch, start, isolation transformer, centrifugal clutch, electric clutch, coils, coil energy, switch

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 3,609,426 A (Gaul) 28 September 1971 (28.09.1971), entire document, especially Fig. 1,2,4,6.	1-12 ----- 13-15
Y	US 6,123,163 A (Otsu et al.) 26 September 2000 (26.09.2000), column 1, lines 25-64; column 9, line 6 - column 11, line 55.	13, 15
Y	US 4,540,930 A (Siedband) 10 September 1985 (09.10.1985)	14
A	US 4,203,041 A (Sachs) 13 May 1980 (13.05.1980)	1-15
A	US 20050248321 A1 (Liu et al.) 10 November 2005 (10.11.2005)	1-15
A	US 6,563,229 B2 (Farkus) 13 May 2003 (13.05.2003)	1-15
A	US 4,460,834 A (Gottfried) 17 July 1984 (17.07.1984)	1-15
A	US 3,477,013 A (Smith) 4 November 1969 (04.11.1969)	1-15
A	Markiewicz et al. "Resilience: Improving Reliability with Standby Power Supplies" Power Quality Application Guide (June 2003)	1-15

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Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774