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POWER TECHNOLOGIES, L.P. [US/US]; 50
Hanover Road, Florham Park, NJ 07932 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): YAGUDAYEV,
Boris, M. [US/US]; 38 McKinley Avenue, Dumont, NJ
07628 (US). GOFMAN, Igor, Y. [US/US]; 8 Amber
Drive, Westchester, NY 10520 (US). GOFMAN,
Mikhail, I. [US/US]; 8 Amber Drive, Westchester, NY
10520 (US).(74) Agent: WETTERMANN, Thomas, E.; McDonnell
Boehnen Hulbert & Berghoff LLP, 300 S. Wacker Drive,
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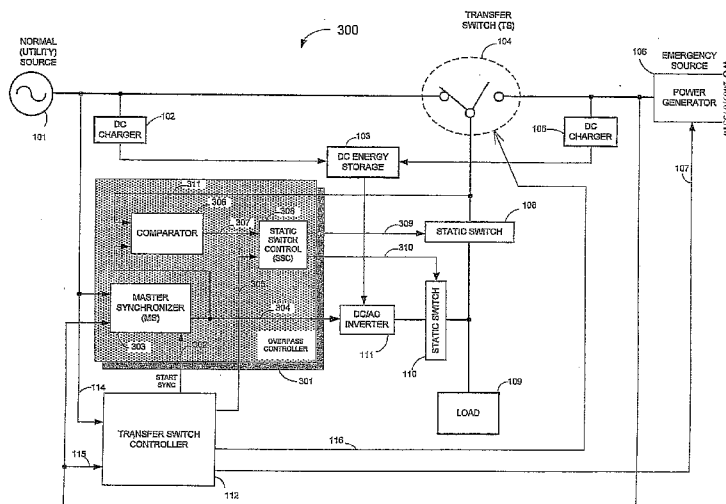


FIGURE 3

(57) **Abstract:** A method and system of reducing the time that a load remains un-powered when a power source fails is disclosed. The method includes receiving a sinusoidal input signal from a first power source. Once the signal has been received, a sinusoidal output signal is generated. The sinusoidal output signal defines a lower limit of a deviation range over which the sinusoidal input signal can deviate before a source-transfer from the first power source to a second power source is initiated. Input signal instantaneous value is compared with output signal instantaneous value. When the input signal instantaneous value has fallen below the lower limit of the deviation range is detected, a digital signal is sent to a switch controller in response to the detection, the digital signal causing the load to be coupled to the second power source.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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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)
H02J

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 practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 604 569 A1 (NISSIN ELECTRIC CO LTD [JP]) 1 April 1988 (1988-04-01) abstract claims 1-4; figures 1,4-10 page 19, line 12 - page 27, line 25 -----	1-19
A	US 2006/212737 A1 (CHANDRA ANUAG [US] ET AL) 21 September 2006 (2006-09-21) claims 16-22; figures 3,5-7 page 3, paragraph 27 - page 4, paragraph 40 -----	1-19
A	US 2005/012395 A1 (ECKROAD STEVEN [US] ET AL) 20 January 2005 (2005-01-20) abstract claims 1-3; figures 4B,4C,7B,9A page 4, paragraph 62 - page 6, paragraph 74 -----	1-19

☐ Further documents are listed in the continuation of Box C.

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Koutsorodis, Dafni

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2604569	A1	01-04-1988	NONE	
US 2006212737	A1	21-09-2006	NONE	
US 2005012395	A1	20-01-2005	US 2008088183 A1	17-04-2008