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12/708,514 18 February 2010 (18.02.2010) US(71) Applicant (for all designated States except US):
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(54) Title: POWER TRANSFER MANAGEMENT FOR LOCAL POWER SOURCES OF A GRID-TIED LOAD

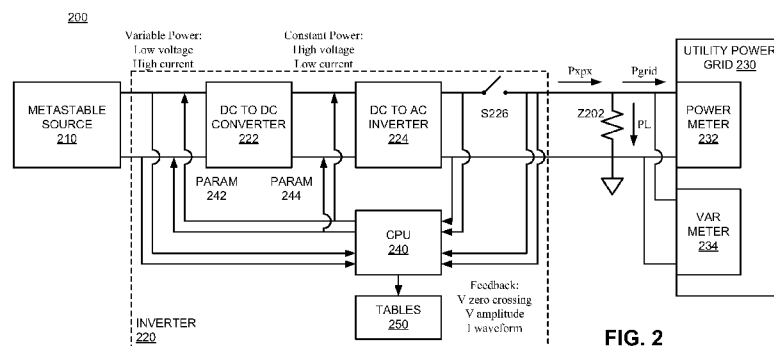


FIG. 2

(57) Abstract: A power transfer system provides power factor conditioning of the generated power. Power is received from a local power source, converted to usable AC power, and the power factor is conditioned to a desired value. The desired value may be a power factor at or near unity, or the desired power factor may be in response to conditions of the power grid, a tariff established, and/or determinations made remotely to the local power source. Many sources and power transfer systems can be put together and controlled as a power source farm to deliver power to the grid having a specific power factor characteristic. The farm may be a grouping of multiple local customer premises. AC power can also be conditioned prior to use by an AC to DC power supply for more efficient DC power conversion.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/024780**A. CLASSIFICATION OF SUBJECT MATTER****H02J 13/00(2006.01)i, G05F 1/70(2006.01)i**

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 13/00; H02H 7/06; H02J 1/10; H02H 3/00; H02B 1/01; H02P 11/00; H02J 9/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: condition, adjust, power factor, PFC, converter, grid

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2006-0092588 A1 (RICHARD REALMUTO et al.) 04 May 2006 See abstract; claims 15, 19, 26; figure 1.	1-5, 13-19 6-12, 20
A	US 2001-0048290 A1 (THOMAS C. UNDERWOOD et al.) 06 December 2001 See abstract; claims 14-16, 23, 29; figures 1, 9.	1-20
A	US 2003-0085621 A1 (PATRICK HENRY POTEAGA) 08 May 2003 See abstract; claims 65, 71, 77, 85.	1-20
A	US 2009-0021078 A1 (CORHODZIC SELVER et al.) 22 January 2009 See abstract; claims 45, 50-52; figures 2, 6A.	1-20

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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Information on patent family members

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