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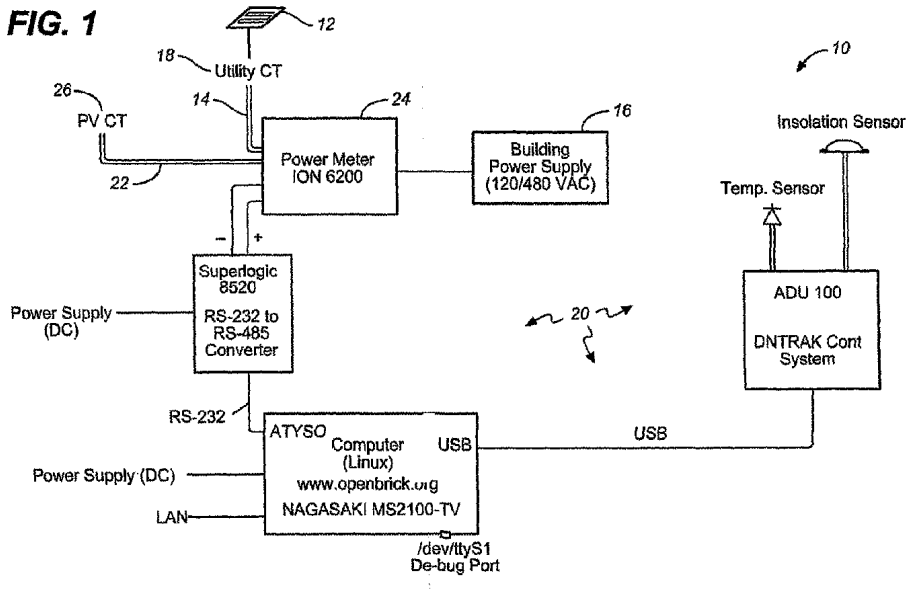
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(54) Title: SYSTEM AND METHOD FOR ARRAY AND STRING LEVEL MONITORING OF A GRID-CONNECTED PHOTOVOLTAIC POWER SYSTEM

FIG. 1



(57) Abstract: A grid-connected photovoltaic electrical power system (10) with both array (20) level and string (540) level remote monitoring and production and efficiency analysis capabilities. The inventive system includes an array (20) level monitoring component (100), softwar (220) for recording and analyzing data obtained through the array level monitoring component, and a string level monitoring componet. (300).

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US06/39069

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G01R 21/00**(2006.01)

USPC: 702/60

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)
U.S. : 702/60, 136/293

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 practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 20060162772 A1 (Presher et al.) 27 July 2006 (27.07.2006), Abstarct; paragraphs 0014-0017, 0019, 0023-0024, 0045, 0047, 0049, 0051-0054, 0056, 0059, 0061-0064, 0069, 0070, 0072, 0082, 0104, 0115, 0133-0135, 0148, 0150 and 0151.	1-27

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

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"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search	Date of mailing of the international search report
29 May 2008 (29.05.2008)	11 JUN 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner of Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer John Barlow Telephone No. (703)308-0956

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Continuation of B. FIELDS SEARCHED Item 3:
Searched USPTO EAST system (Keyword included: String, grid, point, connect$3, photovolta$4, photo, volta$4, energy, power, array, solar, panels, photovolta$4, photo, volta$4, PV, energy, photoelectric$3, utility, meter, gauge, measurement, computer, microprocessor, processor, laptop, PC, FTP, file, transfer$3, protocol).