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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR SCHEDULING THE DISCHARGE OF DISTRIBUTED POWER STORAGE DEVICES AND FOR LEVELIZING DISPATCH PARTICIPATION

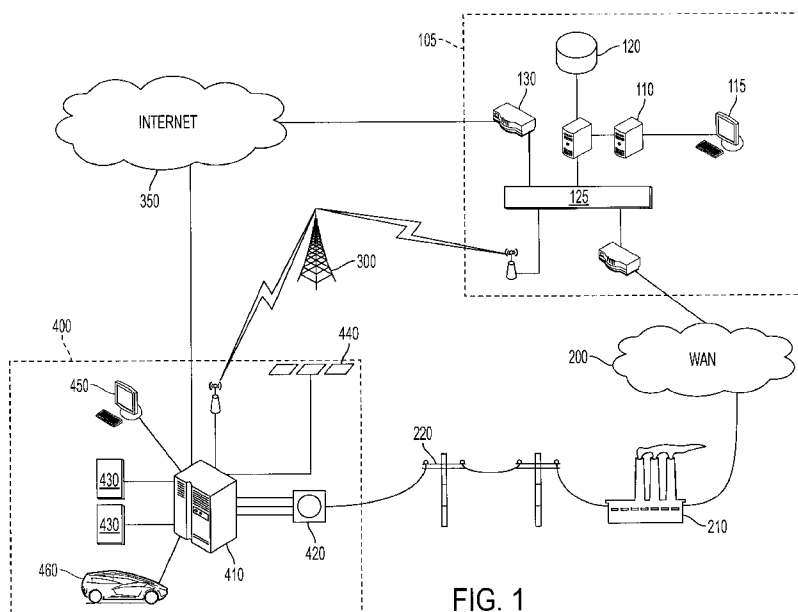


FIG. 1

(57) Abstract: Disclosed is a computerized method for dispatching energy from distributed resources in a discharge event so that the energy stored in individual devices is levelized, or so that an operator request is met. Evaluation of event parameters may be deferred. The method may be utilized to dispatch energy from plug-in electric vehicles. Systems and methods to account for electricity dispatched to or from electric vehicles are disclosed. Systems and methods for incentivizing consumers to participate in a dispatch event or curtail energy use are disclosed.

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29 January 2009

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 08/63339

<p>A. CLASSIFICATION OF SUBJECT MATTER                  IPC(8) - G05D 3/12 (2008.04)                  USPC - 700/286                  According to International Patent Classification (IPC) or to both national classification and IPC</p>		
<p>B. FIELDS SEARCHED</p>		
<p>Minimum documentation searched (classification system followed by classification symbols)                  700/286</p>		
<p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched                  700/291; 700/295; 700/297</p>		
<p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)                  PubWEST(USPT,PGPB,EPAB,JPAB); Google Patents; Google Scholar; Google                  Search Terms Used: distributed; discharge; energy; level; plug-in; vehicle; consumer; power; storage; battery; future; schedule; green; carbon; ripple; grid; PEV; statistical; database; data network; dispatch</p>		
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 6,900,556 B2 (Provanzana et al.) 31 May 2005 (31.05.2005), entire document especially col 4 in 43-67, col 5 in 1-17; col 9 in 1-41, col 11 9-19, col 10 in 8-27, and claim 8	1-11, 14-19 ----- 12-13, 20-25
Y	US 2006/0034103 A1 (West) 16 February 2006 (16.02.2006), abstract	12-13
Y	US 5,642,270 A (Green et al.) 24 June 1997 (24.06.1997), entire document especially col 12 in 46-53)	20-25
<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/></p>		
<p>* Special categories of cited documents:</p>		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"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
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	
Date of the actual completion of the international search	Date of mailing of the international search report	
17 November 2008 (17.11.2008)	03 DEC 2008	
Name and mailing address of the ISA/US	Authorized officer:	
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Lee W. Young	
	PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 08/63339

**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:  
see supplemental sheet

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-25

- Remark on Protest**
- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
  - The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
  - No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.

PCT/US 08/63339

continuation of Box III

Group I: claims 1-25, directed to a method for dispatching energy.

Group II: claims 26-35 directed to a method of receiving and transmitting data to account for electricity flowing through a charging receptacle.

Group III: claims 36-37 directed to a method for establishing the lowest clearing price of energy to be charged by one or more utility companies to customers.

Group IV: claims 38-41 directed to a method for motivating consumers to discharge energy from distributed energy resources as part of an energy dispatch event.

Group V: claims 42-53 directed to a method of incentivizing consumer participation in an energy dispatch event.

The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because under PCT Rule 13.2 they lack the same or corresponding technical features for the following reasons:

Groups II-IV do not include the inventive concept of receiving a dispatch request of Group I.

Groups I and III-V do not include the inventive concept of receiving at a clearinghouse a request for authorization that has been generated in response to connection of an electric vehicle to a charging receptacle of Group II.

Groups I-II and IV-V do not include the inventive concept of transmitting a message for display in a plurality of consumer user interfaces indicating a utility company's desire to purchase an amount of energy of Group III.

Groups I-III and V do not include the inventive concept of transmitting data comprising an offer of an incentive to participate in an energy dispatch event to a plurality of consumers of Group IV.

Groups I-IV do not include the inventive concept of transmitting data to a plurality of consumer user interfaces, said data comprising an offer of a monetary incentive of Group V.

None of these technical features are common to the other groups, nor do they correspond to a special technical feature in the other groups. Therefore, unity of invention is lacking.