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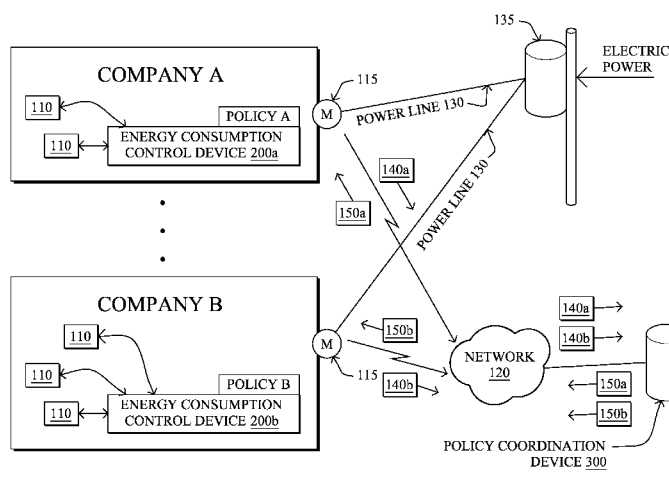
(54) **Title:** CROSS-PROFILE COORDINATION OF ENERGY CONSUMPTION POLICIES

FIG. 1

(57) **Abstract:** In one embodiment, a policy coordination device receives soft policies from a plurality of localized energy consumption control devices, and examines the received soft policies to determine corresponding energy consumption. From this, the policy coordination device creates a global policy to reduce overall peak energy consumption between the received soft policies. As such, the policy coordination device transmits corresponding policy control commands to one or more of the plurality of localized energy consumption control devices based on the global policy. In another embodiment, a particular localized energy consumption control device discloses its soft policies and in response, receives a policy control command from the policy coordination device to control operation of one or more energy consuming devices (within soft limits of the soft policies) based on the global policy.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2012/034948

A. CLASSIFICATION OF SUBJECT MATTER

INV. H02J3/14 G06Q50/06
ADD.

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 H05B G06Q

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/217451 A1 (KOUDA TETSUYA [JP] ET AL) 26 August 2010 (2010-08-26) paragraphs [0009] - [0012], [0051], [0052], [0055], [0056], [0058]; figures 1-4	1-20
X	US 2009/048718 A1 (RICHARD AMY [US] ET AL) 19 February 2009 (2009-02-19) paragraphs [0013] - [0015], [0025]; figure 1	1,10,14,18
A	US 2005/234600 A1 (BOUCHER RODNEY M [US] ET AL) 20 October 2005 (2005-10-20) paragraphs [0090] - [0097]; figure 11	1,4
A	US 4 023 043 A (STEVENSON ROBERT H) 10 May 1977 (1977-05-10) column 3, line 50 - column 4, line 28; figures 1,3,4	1



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

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

"E" earlier application or patent but published on or after the international filing date

"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)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"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

"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

"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

Date of the actual completion of the international search

8 October 2012

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07/01/2013

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No.
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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 additional 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 an 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.:

1-20

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-20

Method and apparatus for reducing energy peaks by creating a global energy-consumption policy based on the coordination of localized policies

2. claims: 21-23

Method for determining the disclosure and the alterability of localized policies by a policy coordinating device.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/034948

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