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- (71) Applicant (for all designated States except US): **THE BOC GROUP, INC.** [US/US]; 575 Mountain Avenue, Murray Hill, NJ 07974 (US).
- (72) Inventor: **RUSSELL, Thomas**; 64 Murray Hill Blvd., Murray Hill, NJ 07974 (US).
- (74) Agent: **HEY, David, A.**; The Boc Group, INC., 575 Mountain Avenue, Murray Hill, NJ 07974 (US).
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

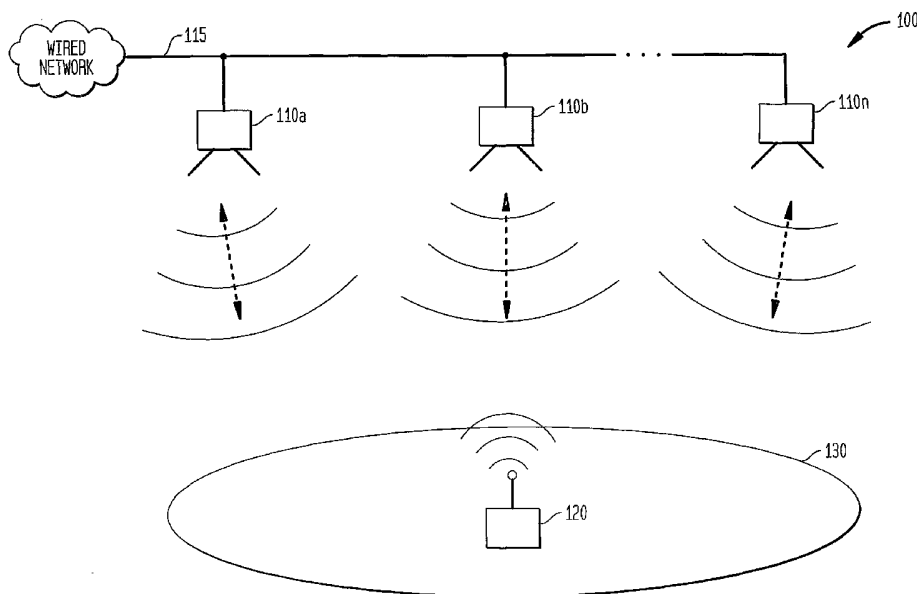
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(54) Title: SYSTEMS AND METHODS FOR REDUNDANT NETWORKS



(57) Abstract: Systems and methods for redundant data communication are presented. In some embodiments, a redundant wireless networking system includes at least two wireless access points directly associated with a wired network and configured to provide wireless network access over one or more common areas, and one or more transceivers whose locations are restricted within the common area(s). Some embodiments concern a system for providing data communications over a power line network, including a host associated with one or more power lines, where the host is configured to manage a self-configuring data communications network, and a plurality of client devices configured to communicate with the host over the power line(s) in an ad-hoc manner. Certain embodiments may have usage in industrial applications.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/035689

A. CLASSIFICATION OF SUBJECT MATTER
INV. H04L12/56

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)
H04L G05B H04Q

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)
EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| X | US 2004/136318 A1 (BENTLEY KEVIN R) 15 July 2004 (2004-07-15) abstract paragraph [0005] - paragraph [0006] paragraph [0018] | 1-3,5-7 |
| Y | paragraph [0025] | 14-16 |
| X | US 2004/198352 A1 (AITKEN DAVID JAMES ET AL) 7 October 2004 (2004-10-07) abstract paragraph [0033] - paragraph [0037] paragraph [0059] - paragraph [0062] paragraph [0078] - paragraph [0082] | 1-4,8-11 |
| Y | US 2003/043052 A1 (TAPPERSON GARY ET AL) 6 March 2003 (2003-03-06) abstract paragraph [0013] - paragraph [0015] paragraph [0033] - paragraph [0036] | 14-16 |

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents :

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|---|---|
| *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 |
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| *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 | |

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| Date of the actual completion of the international search 10 February 2006 | Date of mailing of the international search report 23.05.2006 |
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/035689

Box 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 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 fee, this Authority did not invite payment of any additional fee.
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.:

1-16

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

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

1. claims: 1-16

System for providing redundant wireless networking

2. claims: 17-46

Systems and method for providing data communications over a power distribution network

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2005/035689

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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| | | WO 2004064302 A2 | 29-07-2004 |
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