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Declarations under Rule 4.17:

[Continued on next page]

(54) Title: TUNING OF INDUSTRIAL AUTOMATION SYSTEM PERFORMANCE BASED ON DEVICE OPERATING CHARACTERISTICS

(57) Abstract: Each device in an industrial automation system network or other network may have its own associated one or more performance characteristics, such as response time and/or reset time of the network device. Data may be stored representing a plurality of performance characteristics each associated with a different one of a plurality of devices in the network including a first device and a second device. The stored data may be retrieved, representing the performance characteristic of the second device. The first device may communicate over the network with the second device in accordance with the performance characteristic of the second device.

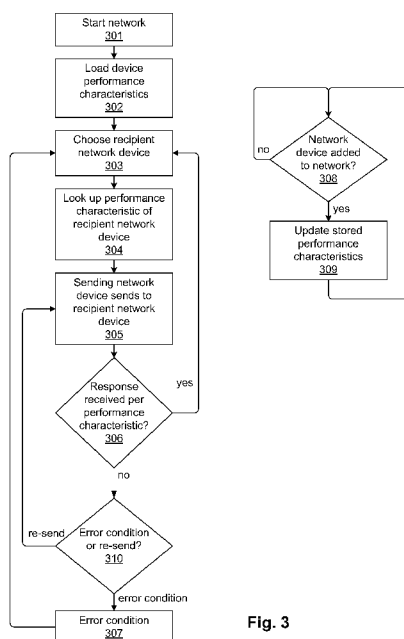


Fig. 3

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- *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))*
- Published:**
- *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
8 October 2009

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/088113

A. CLASSIFICATION OF SUBJECT MATTER
INV. H04L1/18
ADD. H04L12/40

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WO 2007/125462 A (KONINKL PHILIPS ELECTRONICS NV [NL]; ZHANG DAQING [CN]; CHEN NINGJIANG) 8 November 2007 (2007-11-08) abstract figures 3,4 page 2, lines 27-31 page 5, line 6 - page 8, line 13</p> <p align="center">----- -/--</p>	1-20

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 document 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.
- *G* document member of the same patent family

Date of the actual completion of the international search

29 July 2009

Date of mailing of the international search report

05/08/2009

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/088113

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SHIZHUANG LIN ET AL: "ZigBee Based Wireless Sensor Networks and Its Applications in Industrial" AUTOMATION AND LOGISTICS, 2007 IEEE INTERNATIONAL CONFERENCE ON, IEEE, PISCATAWAY, NJ, USA, 1 August 2007 (2007-08-01), pages 1979-1983, XP031139105 ISBN: 978-1-4244-1531-1 abstract	1-20
A	US 2006/234644 A1 (LUDWIG REINER [DE] ET AL) 19 October 2006 (2006-10-19) abstract paragraphs [0016] - [0020] paragraph [0034] paragraphs [0048], [0049] claim 1	1-20
A	US 7 082 467 B2 (BORDER JOHN [US] ET AL) 25 July 2006 (2006-07-25) abstract column 6, lines 20-48	1-20
X	US 2004/059844 A1 (JONES NICOLAS D L [CA] ET AL) 25 March 2004 (2004-03-25) abstract paragraphs [0009] - [0011] paragraphs [0015] - [0019] paragraphs [0025] - [0029] figure 1	21-28
X	US 6 687 772 B1 (EIDSON JOHN C [US]) 3 February 2004 (2004-02-03) abstract column 2, line 25 - column 4, line 67 figures 1-3	21,25
A	US 2004/034658 A1 (POTTER DAVID L [US] ET AL) 19 February 2004 (2004-02-19) abstract	21-28

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/088113

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.:

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

Apparatus (claims 1,17) and method (claim 9) for an industrial automation system

2. claims: 21-28

Computer-readable medium (claims 21,25) with an electronic data sheet (EDS) file

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2008/088113
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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