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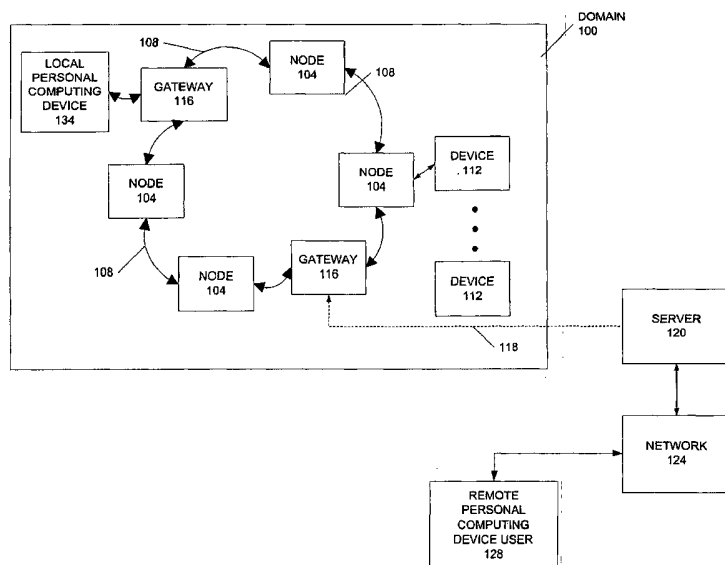
- Published:**

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25 September 2003

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.

(54) Title: AUTONOMOUS LOCAL AREA DISTRIBUTED NETWORK



- (S7) Abstract:** An autonomous local area distributed network provides a peer-to-peer network to connect nodes and devices using low cost and low bandwidth communication techniques, thus allowing the network to share node resources and distribute programming tasks across the different nodes. Home appliances and devices such as refrigerators, televisions, light switches, light fixtures, garage door openers, stereos, and the like may be configured as nodes on the peer-to-peer network. Operational programs, referred to as "sequences", may be distributed across nodes in a network to enable the maximum utilization of available node resources.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/41772

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L12/28

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)

IPC 7 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, INSPEC, PAJ, 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	WO 99 57837 A (SAMSUNG ELECTRONICS CO LTD) 11 November 1999 (1999-11-11) abstract	1,2,4-9, 11-13
Y	page 2, line 16 - line 25 page 3, line 16 - line 22 page 14, line 15 - line 25 page 15, line 24 -page 17, line 21 claims 1,9,11 --- -/--	3

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in 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.
- "&" document member of the same patent family

Date of the actual completion of the international search

19 July 2002

Date of mailing of the international search report

23. 10. 2002

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/41772

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BACH R: "POWERLINE-LOESUNGEN IN DEN USA. NEUE CHIPS FUER DIE GEBAEUDE- AUTOMATISIERUNG" ELEKTRONIK, FRANZIS VERLAG GMBH. MUNCHEN, DE, vol. 47, no. 17, 18 August 1998 (1998-08-18), pages 78-81, XP000847931 ISSN: 0013-5658 page 78, left-hand column, line 1 -right-hand column, line 21 ---	3
X	NEGUS K J ET AL: "HOME RF TM AND SWAP: WIRELESS NETWORKING FOR THE CONNECTED HOME" MOBILE COMPUTING AND COMMUNICATIONS REVIEW, ACM, NEW YORK, NY, US, vol. 2, no. 4, 1 October 1998 (1998-10-01), pages 28-36, XP000786057 page 29, left-hand column, line 43 -right-hand column, line 2 page 29, right-hand column, line 55 -page 30, left-hand column, line 18 figures 1,2 ---	1,6, 11-13
A	US 5 598 566 A (PASCUCCI GREGORY A ET AL) 28 January 1997 (1997-01-28) abstract column 2, line 5 - line 38 column 10, line 41 - line 44 column 10, line 54 - line 58 column 18, line 38 -column 23, line 11 figures 31,32,37,44,47,77 -----	1,2,4-9, 11-13

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/41772

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 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.:
1-9, 11-13

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ 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: 1-9,11-13

Method for enabling a node to communicate with other nodes in a peer-to-peer configuration.

2. Claim : 10

Method for sharing memory resources between two nodes.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/41772

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9957837	A	11-11-1999	AU 3734199 A	23-11-1999
			AU 3734299 A	23-11-1999
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