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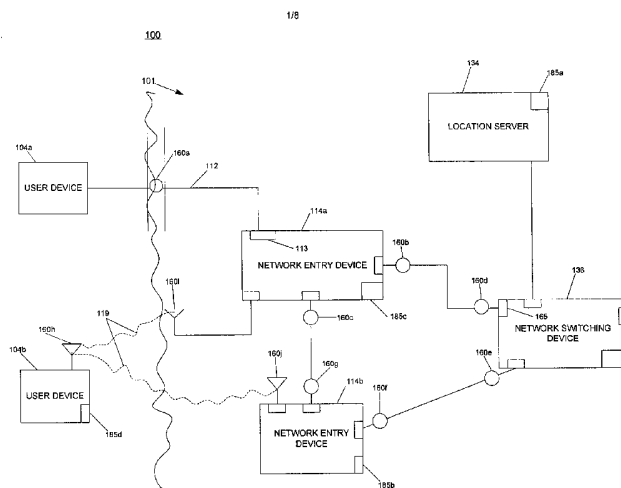
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[Continued on next page]

(54) Title: LOCATION AWARE DATA NETWORK



(57) Abstract: A system that associates physical locations with network-linked devices in a network to which such devices are connected. This system employs a variety of techniques for establishing device location. The system configuration can vary and can include any type of data network, including LANs, MANs, Wide Area Networks (WANs), Personal Area Networks (PANs), wireless networks (119) and Home Networks. The system provides location information for particular devices (104) to the network devices (114) and management, and may be used in any of a variety of ways to improve configuration accuracy, control, and security. The location information may also be used to control or secure a device itself.



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# INTERNATIONAL SEARCH REPORT

International application No.

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 15/173, 15/16, 15/177, 11/30; B60R 25/10; G08G 1/123; G01C 21/36  
US CL : 709/220,223,225,229; 713/201; 340/988,426.19; 701/213

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## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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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)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P --- Y,P	US 2002/0138632 A1 (BADE et al) 26 September 2002 (26.09.2002), paragraphs 21-29.	1, 73, 94, 127, 137, 150 ----- 2-72, 74-93, 95-126, 128-136, 138-149
Y,P	US 6,523,064 B1 (AKATSU et al) 18 February 2003 (18.02.2003), column 15, lines 6-23; column 15 line 41 - column 16 line 57.	1-150
Y	US 6,167,513 A (INOUE et al) 26 December 2000 (26.12.2000), whole document, especially column 23, lines 8-25; column 24, lines 47-67; column 15, lines 24-41; column 16, lines 24-50.	1-72, 88-94, 138-150
A	US 6,115,754 A (LANDGREN) 05 September 2000 (05.09.2000).	
A,P	US 6,460,084 B1 (VAN HORNE et al) 01 October 2002 (01.10.2002).	1-48, 73-87, 127-137
A	US 6,012,088 A (LI et al) 04 January 2000 (04.01.2000).	1-48,73-87,127-137



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"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		

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PCT/US03/06169

## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,151,631 A (ANSELL et al) 21 November 2000 (21.11.2000), columns 7-11.	1-150
Y,P	US 2002/0188842 A1 (WILLEBY) 12 December 2002 (12.12.2002), paragraphs 20-28.	1-150
Y,P	US 2003/0035544 A1 (HERLE et al) 20 February 2003 (20.02.2003) paragraphs 44-50.	1-48, 88-94, 138-150

# INTERNATIONAL SEARCH REPORT

PCT/US03/06169

## Continuation of B. FIELDS SEARCHED Item 3:

ACM

search terms: network and access and (control or manag or autoriz) and (gps) and topology and location