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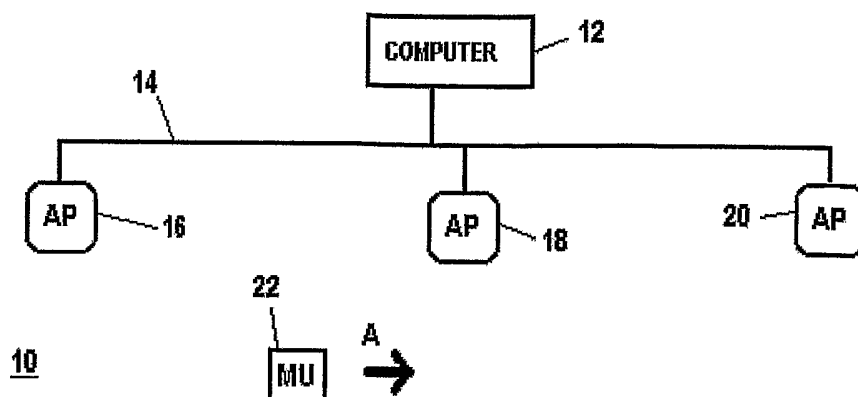
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(54) Title: IMPROVED WLAN ROAMING BASED ON LOCATION



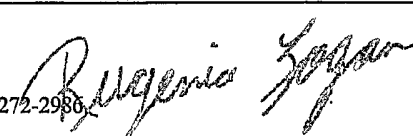
(57) Abstract: A wireless data communications system has mobile units which become associated with access points. Association between a mobile unit and an access point is changed as mobile units move within an area having a plurality of access points. Selection of an access point for association with a mobile unit is made according to selection criteria including a plurality of selection parameters. The system includes arrangements for determining location of a mobile unit within the area. The selection parameters include location of the mobile unit or direction of movement of the mobile unit when there are a plurality of access points available for association with the mobile unit.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/37683

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : H04Q 7/20 US CL : 455/456.1 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 455/456.1, 103, 437, 438,457,432.1, 435.1, 4102, 450, 451 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		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 2004/0052232 A1 (RAMASWAMY et al.) 18 March 2004, fig. 1.	1
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Y,P		2, 4-6, 8, 9
Y	US 6,259,898 B1 (LEWIS) 10 July 2001, fig. 1, 2.	2, 6
Y	US 2002/0087264 A1 (HILLS et al.) 04 July 2002, abstract; fig. 3.	4-6
Y	US 2003/0036386 A1 (HARRISON) 20 February 2003, see entire document.	8, 9
Y	US 5,848,358 A (FORSEN et al.) 08 December 1998, abstract; fig. 1, 2.	9
A	US 5,596,333 A (BRUCKERT) 21 January 1997, see entire document.	1-9
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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Date of the actual completion of the international search 18 October 2005 (18.10.2005)		Date of mailing of the international search report <b>16 NOV 2005</b>
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Continuation of B. FIELDS SEARCHED Item 3:  
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