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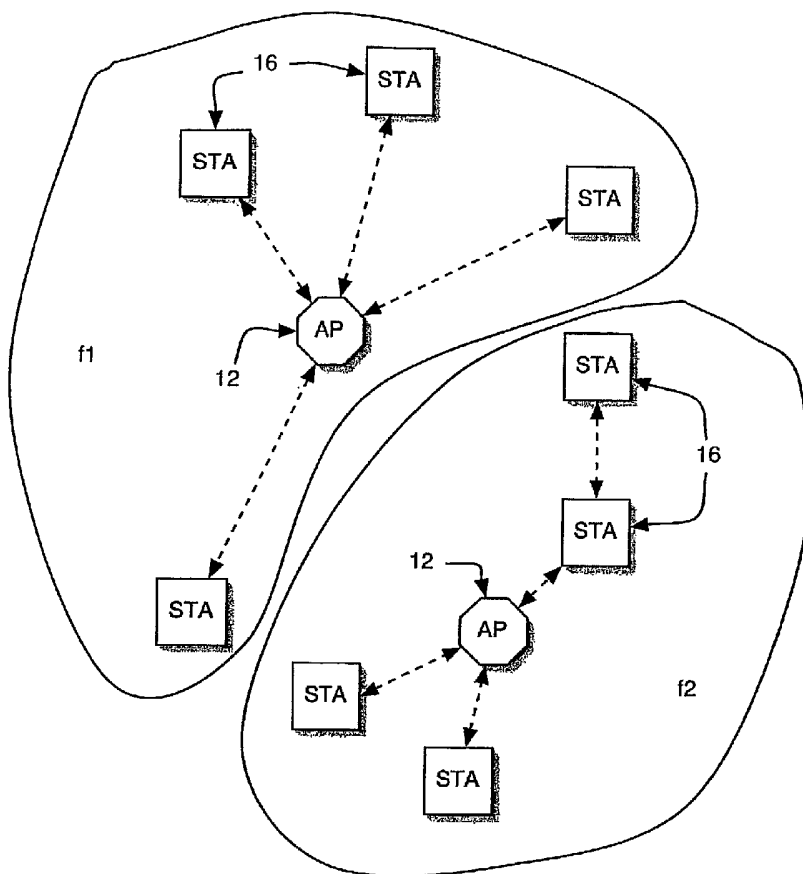
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(54) Title: SYSTEM AND METHOD FOR CHANNEL SELECTION IN A WIRELESS NETWORK



(57) Abstract: The performance and ease of management of wireless communications environments is improved by a mechanism that enables access points (APs) (12) to perform automatic channel selection. A wireless network can therefore include multiple APs, (12) each of which will automatically choose a channel such that channel usage is optimized. Furthermore, Aps (12) can perform automatic power adjustment so that multiple Aps (12) can operate on the same channel while minimizing interference with each other. Wireless stations are load balanced across Aps (12) so that user bandwidth is optimized. A movement detection scheme provides seamless roaming of stations between Aps (12).



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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04Q 7/20; H04M 11/00

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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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,606,727 A (UDEA) 25 February 1997 (25.02.1997), Abstrac, Co. 1, Lines 36 - Co. 2, Line 10, Co. 2, Line 59 - Co. 3, Line 42, Figs. 10 & entire Document.	1, 4, 7 ----- 2-3, 5-6, 8-30
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A		
X	US 5,963,848 A (D'AVELLO) 05 October 1999 (05.10.1999), Co. 2, Lines 44-63, Co. 5, Line 4 - Co. 6, Line 45, Figs. 1-4).	1, 4, 7, ----- 2-3, 5-6, 8-30

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