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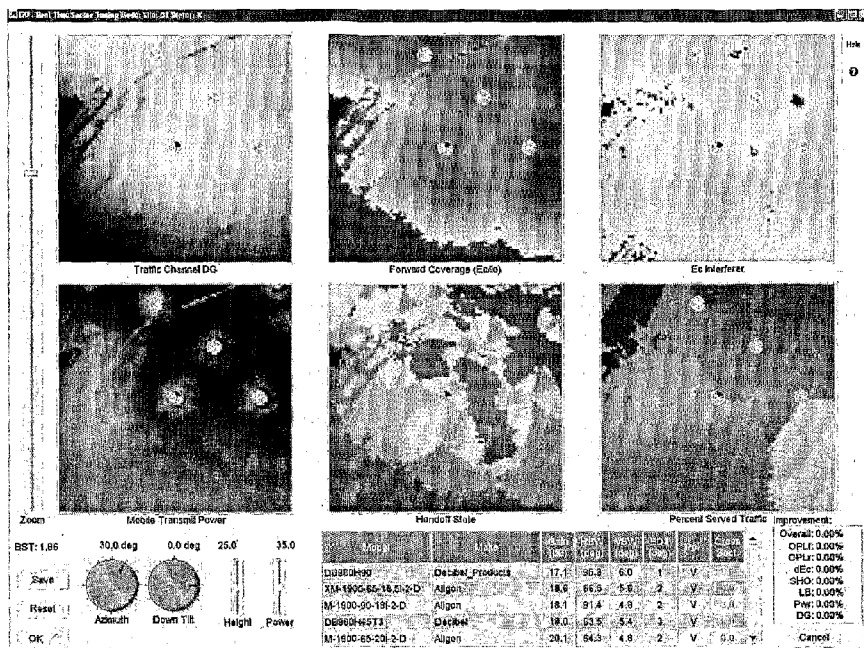
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[Continued on next page]

(54) Title: METHODS FOR INTERACTIVE, REAL-TIME ADJUSTMENTS OF ANTENNA AND OTHER NETWORK STATE ELEMENTS IN A WIRELESS NETWORK



Example of Single-Step Antenna Adjustments GUI.

(57) Abstract: Methods for interactively adjusting antennas and displaying network state elements in a simulated wireless network with real-time calculation and a complete display of the effect of the modification on the network performance. The result is an intuitive and efficient way of maintaining a wireless network that replaces a common multi-step, time consuming and tedious operation of network maintenance, by a single step operation that is performed in real time.

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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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/10094

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.: 46 and 47 (Improper multiple dependent claims)
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:

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 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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/10094

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 17/10 (2007.01)

USPC - 703/2

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(8) - G06F 17/10; H04B 17/00; H04Q 7/36 (2007.01)

USPC - 703/2, 5, 20; 705/10, 28; 702/186, 57, 60, 69, 152, 180; 455/67.4, 12.1, 423; 342/463, 368, 359, 357.13, 191

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)

MicroPatent

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---- Y	US 2004/0236547 A1 (RAPPAPORT et al) 25 November 2004 (25.11.2004), entire document	1-30, 32-35, 48-60 ----- 31, 36
Y	US 2003/0050015 A1 (KELLY et al) 13 March 2003 (13.03.2003), entire document	31, 36
A	US 6,493,679 B1 (RAPPAPORT et al) 10 December 2002 (10.12.2002), entire document	1-45, 48-60
A	US 6,499,006 B1 (RAPPAPORT et al) 24 December 2004 (24.12.2004), entire document	1-45, 48-60
A	US 6,317,599 B1 (RAPPAPORT et al) 13 November 2001 (13.11.2001), entire document	1-45, 48-60

Further documents are listed in the continuation of Box C.

* 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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