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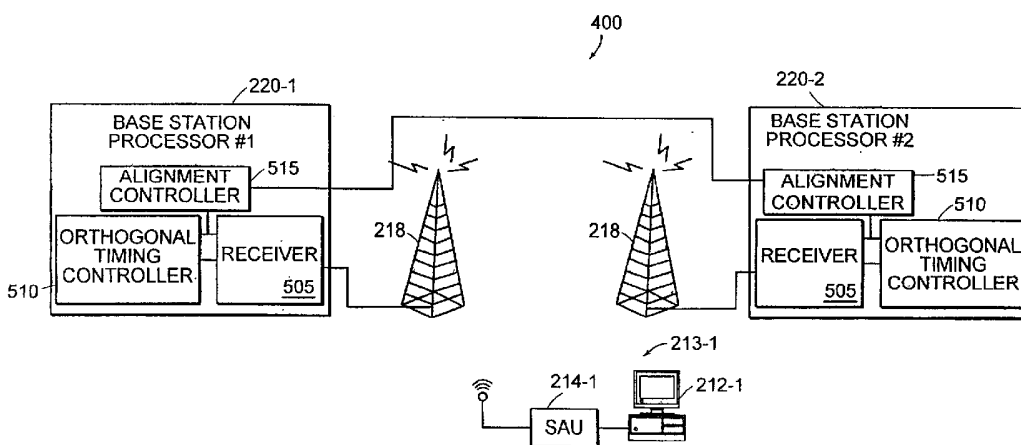
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(54) Title: SOFT HANDOFF OF A CDMA REVERSE LINK



(57) Abstract: Method and apparatus for base stations (218) and subscriber units (213) allows soft handoff of a CDMA reverse link utilizing an orthogonal channel structure. Subscriber units transmit an orthogonally coded signal over a reverse link to the base stations. A given base station provides timing control (510) of the timing offset of the reverse link signal. Based on at least one criterion, an alignment controller (515) determines that the given base station should hand off timing control to another base station, and a soft handoff process ensues. In response to a command or message for soft handoff of the subscriber unit from the given base station to another base station, the subscriber unit makes a coarse timing adjustment to the timing of the coded signal. The subscriber unit may make fine timing adjustments based on feedback from the base station controlling timing. Multiple base stations may provide power control feedback to the subscriber unit.

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INTERNATIONAL SEARCH REPORT

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IPC(7) : H04B 1/707		
US CL : 375/140, 356; 370/342		
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) U.S. : 375/130,140,141,354,356; 370/320,335,342,441		
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) EAST		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0071384 A1 (HALL et al.) 13 June 2002 (13.06.2002), paragraphs 0037, 0093, Fig. 1.	25-27
X	US 6,470,001 B1 (KIM et al.) 22 October 2002 (22.10.2002), abstract, column 1, lines 9-12, column 3, lines 13-15, column 4, lines 22-28.	22-24
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A		1-21, 25-29
Y	US 5,937,019 A (PADOVANI) 10 August 1999 (10.08.1999), column 2, lines 4-18, column 3, lines 30-37.	22-24
A	US 5,101,501 A (GILHOUSEN et al.) 31 March 1992 (31.03.1992), whole document.	1-29
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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