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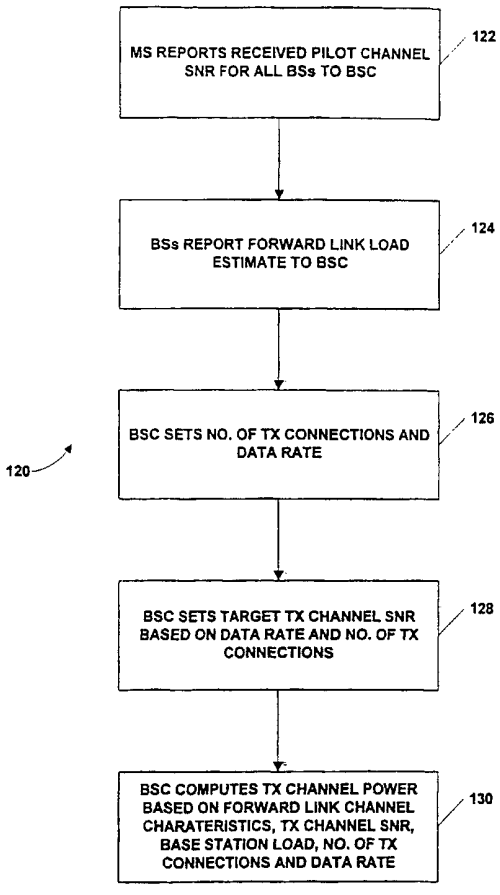
(54) Title: MOBILE STATION ASSISTED FORWARD LINK TRANSMISSION POWER AND DATA RATE CONTROL IN A CDMA SYSTEM



(57) Abstract: In a CDMA system, forward link load measurements and mobile station channel measurements are provided to the base station controller to allow the controller to jointly select the initial traffic channel transmit power and data rate. A mobile station (102) reports a received pilot channel signal-to-noise ratio for all base stations (104, 106) in sight to a base station controller (108). The base stations report a current forward link load estimate to the base station controller. The base station controller sets a number of traffic channel connections and a traffic channel data rate to be allocated for the traffic channel connections, and sets a target traffic channel signal-to-noise ratio based on the data rate and the number of traffic channel connections. The initial traffic channel power is computed by the controller based on estimated forward link channel characteristics, the target traffic channel received signal-to-noise ratio, the base stations' load, the number of traffic channel connections, and the traffic channel data rate.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B7/005

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 7 H04B H04Q

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 practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropnate, of the relevant passages	Relevant to claim No.
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A	US 5 771 451 A (TAKAI KENICHI ET AL) 23 June 1998 (1998-06-23) abstract; figures 1,4-11 column 2, line 52 - line 58 column 6, line 16 -column 7, line 23 --- -/--	1,2,6,7, 9,10,12

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
9 January 2002	16/01/2002

Name and mailing address of the ISA	Authorized officer
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

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