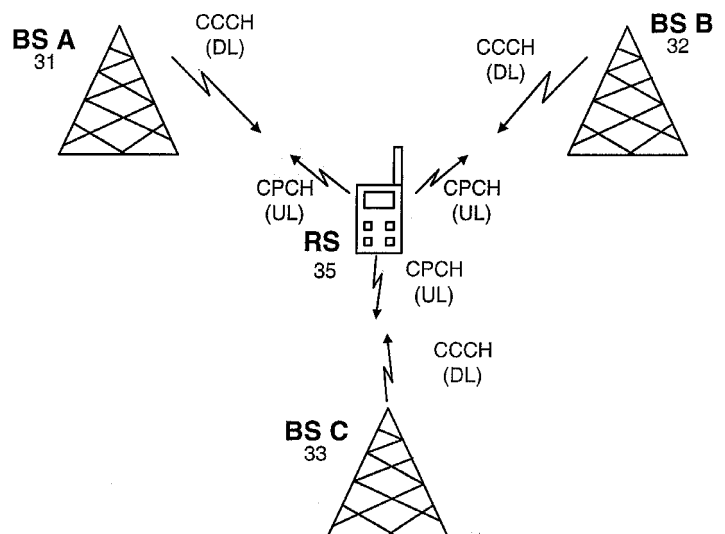


[12] Patent

[11] Patent No.: GC 0000128	Number of the Decision to Grant the Patent: 4/2171
[45] Date of Publishing the Grant of the Patent: 29/06/2005 4/2005	Date of the Decision to Grant the Patent: 27/12/2004
[21] Application No.: GCC/P/2000/574 [22] Filing Date: 25/03/2000 [30] Priority: [31] Priority No. [32] Priority date [33] State 09/273508 22/03/1999 US 09/275010 24/03/1999 US 09/304345 04/05/1999 US [72] Inventors: 1- Emmanuel Kanterakis, 2- Kourosh Parsa [73] Owner: Golden Bridge Technology Inc., 185 Route 36, West Long Branch, New Jersey 07764, USA [74] Agent: Suleiman Ibrahim Al-Ammar	[51] Int. Cl. ⁷ : H04Q 7/38; H04B 7/26; H04L 12/56 [56] Cited Documents: - "3 rd Generation Partnership Project (3GPP); Technical Specification Group (TSG) Radio Access Network (RAN); Working Group 1 (WG1); Physical Channels And Mapping Of Transport Channels Onto Physical Channels (FDD)" 3GPP TS 25.211 V2.4.0, 03 September 1999 - US 5841768 A (OZLUTURK, F.M. et al.) 24 November 1998 - WO 93/18601 A1 (QUALCOMM INCORPORATED) 16 September 1993 - WO 96/04721 A1 (MOTOROLA, INC.) 15 February 1996

[54] COMMON PACKET CHANNEL

[57] Abstract: An improvement to a code-division-multiple-access (CDMA) system employing spread-spectrum modulation, with the CDMA system having a base station (BS) and a plurality of remote stations. The base station has a BS-spread-spectrum transmitter and a BS-spread-spectrum receiver. A remote station has an RS-spread-spectrum transmitter and an RS-spread-spectrum receiver. The BS transmitter transmits a broadcast common-synchronization channel, which includes a frame-timing signal. The broadcast common-synchronization channel has a common chip-sequence signal, which is common to the plurality of remote stations. In response to the RS-spread-spectrum receiver receiving the broadcast common-synchronization channel, and determining frame timing from the frame-timing signal, an RS-spread-spectrum transmitter transmits an access-burst signal, which RS-power-control signals transmitted in time, at increasing power levels. The BS-spread-spectrum transmitter, responsive to the BS-spread-spectrum receiver receiving the access-burst signal, and detecting an RS-preamble signal, transmits an acknowledgment signal. In response to the first RS-spread-spectrum receiver receiving the acknowledgment signal, the first RS-spread-spectrum transmitter transmits a spread-spectrum signal having data. The BS-spread-spectrum transmitter transmits either data or power-control information to RS-spread-spectrum receiver.



No. of claims: 50

No. of figures: 16