



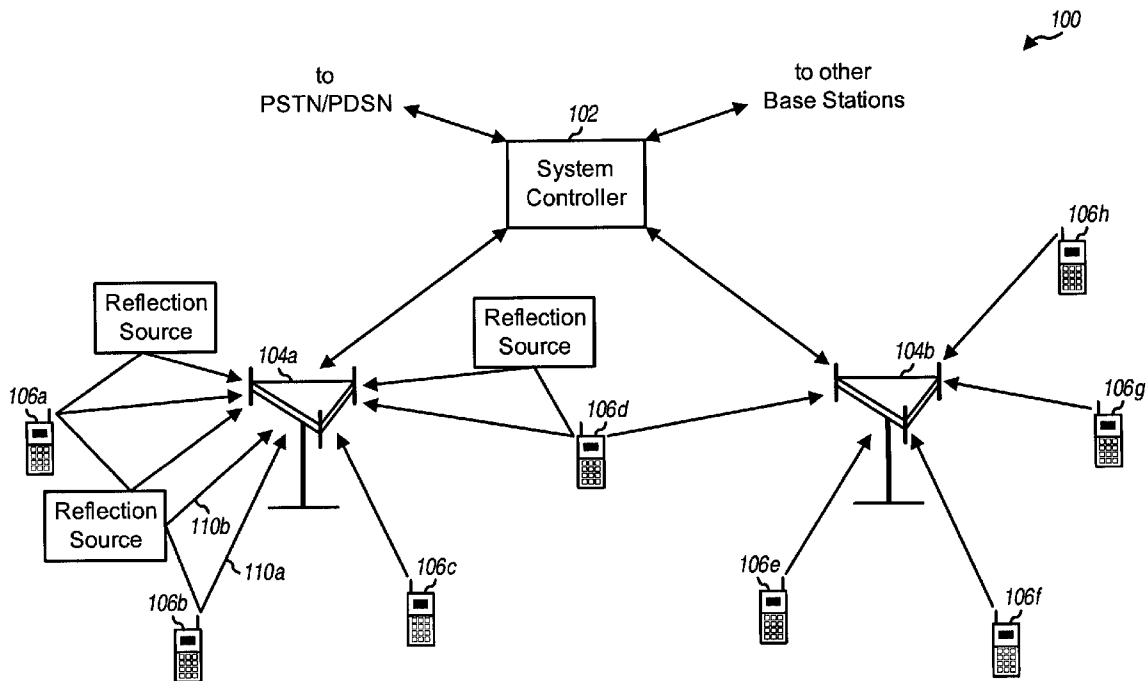
US 20060141933A1

(19) **United States**(12) **Patent Application Publication****Smee et al.**(10) **Pub. No.: US 2006/0141933 A1**(43) **Pub. Date: Jun. 29, 2006**(54) **CHANNEL ESTIMATION FOR  
INTERFERENCE CANCELLATION****Related U.S. Application Data**

(60) Provisional application No. 60/638,666, filed on Dec. 23, 2004.

(76) Inventors: **John Edward Smee**, San Diego, CA (US); **Henry David Pfister**, San Diego, CA (US); **Jilei Hou**, Carlsbad, CA (US); **Stefano Tomasin**, Venice (IT)**Publication Classification**(51) **Int. Cl.**  
**H04B 1/00** (2006.01)(52) **U.S. Cl.** ..... **455/63.1; 455/67.13**Correspondence Address:  
**QUALCOMM, INC**  
**5775 MOREHOUSE DR.**  
**SAN DIEGO, CA 92121 (US)**(57) **ABSTRACT**

A method and system for interference cancellation (IC). One aspect relates to traffic interference cancellation. Another aspect relates to joint IC for pilot, overhead and data. Another aspect relates to improved channel estimation. Another aspect relates to adaptation of transmit subchannel gains.

(21) Appl. No.: **11/192,503**(22) Filed: **Jul. 29, 2005**

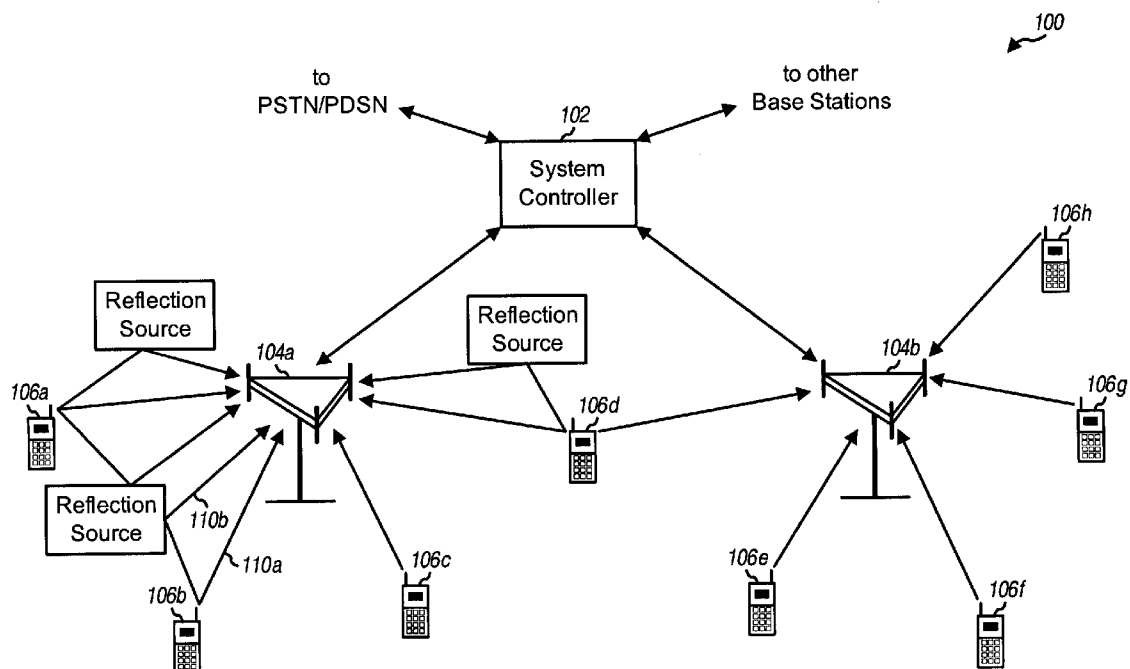
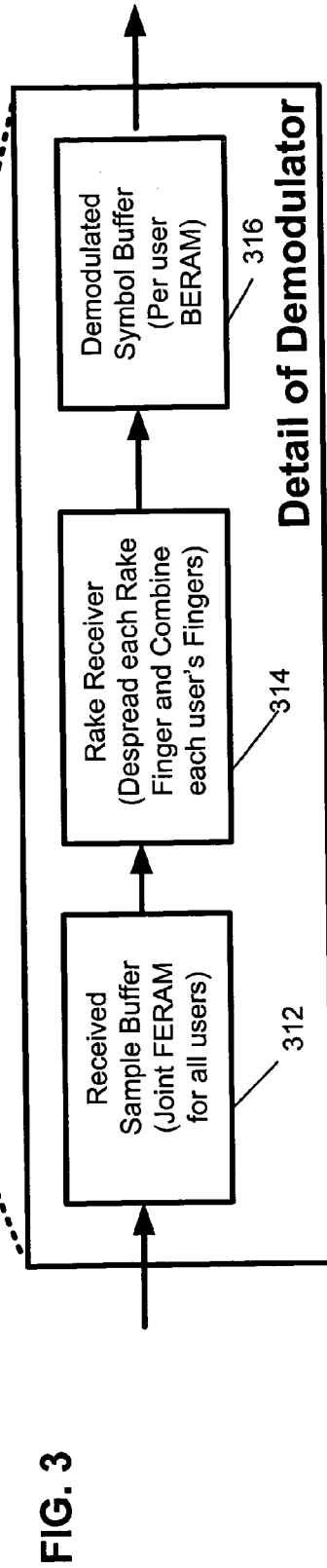
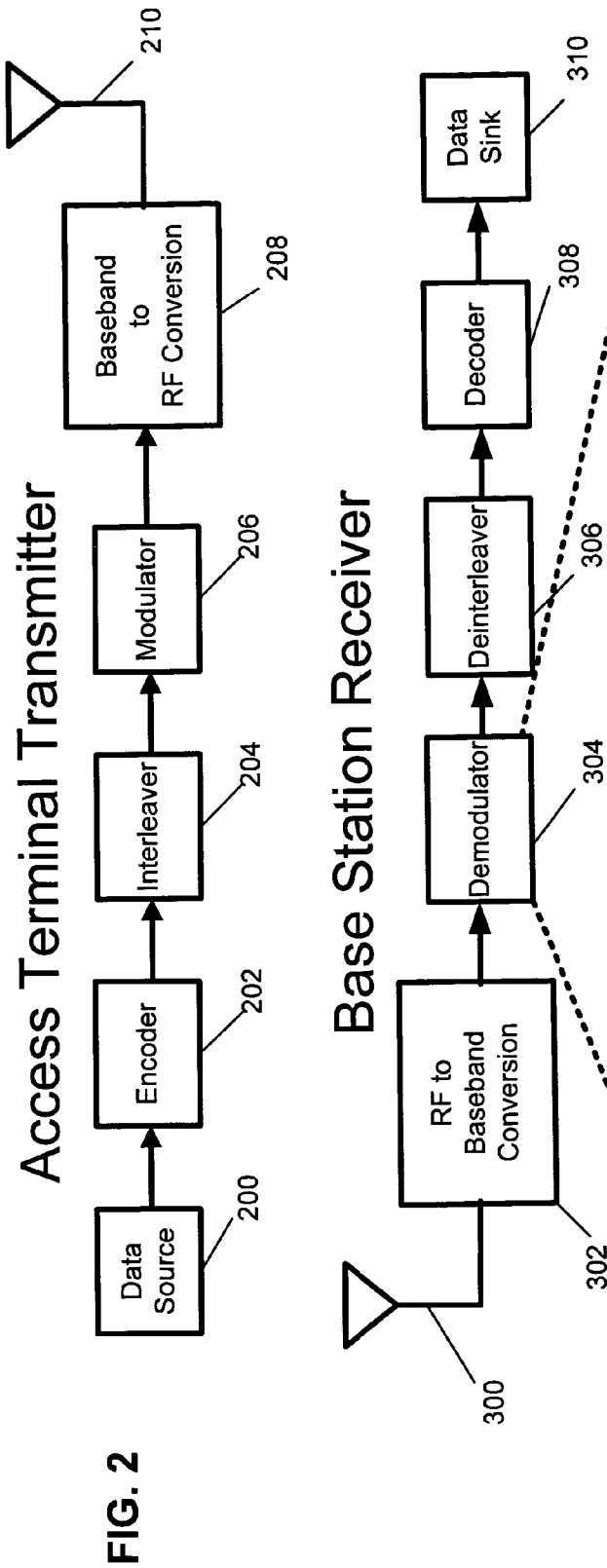
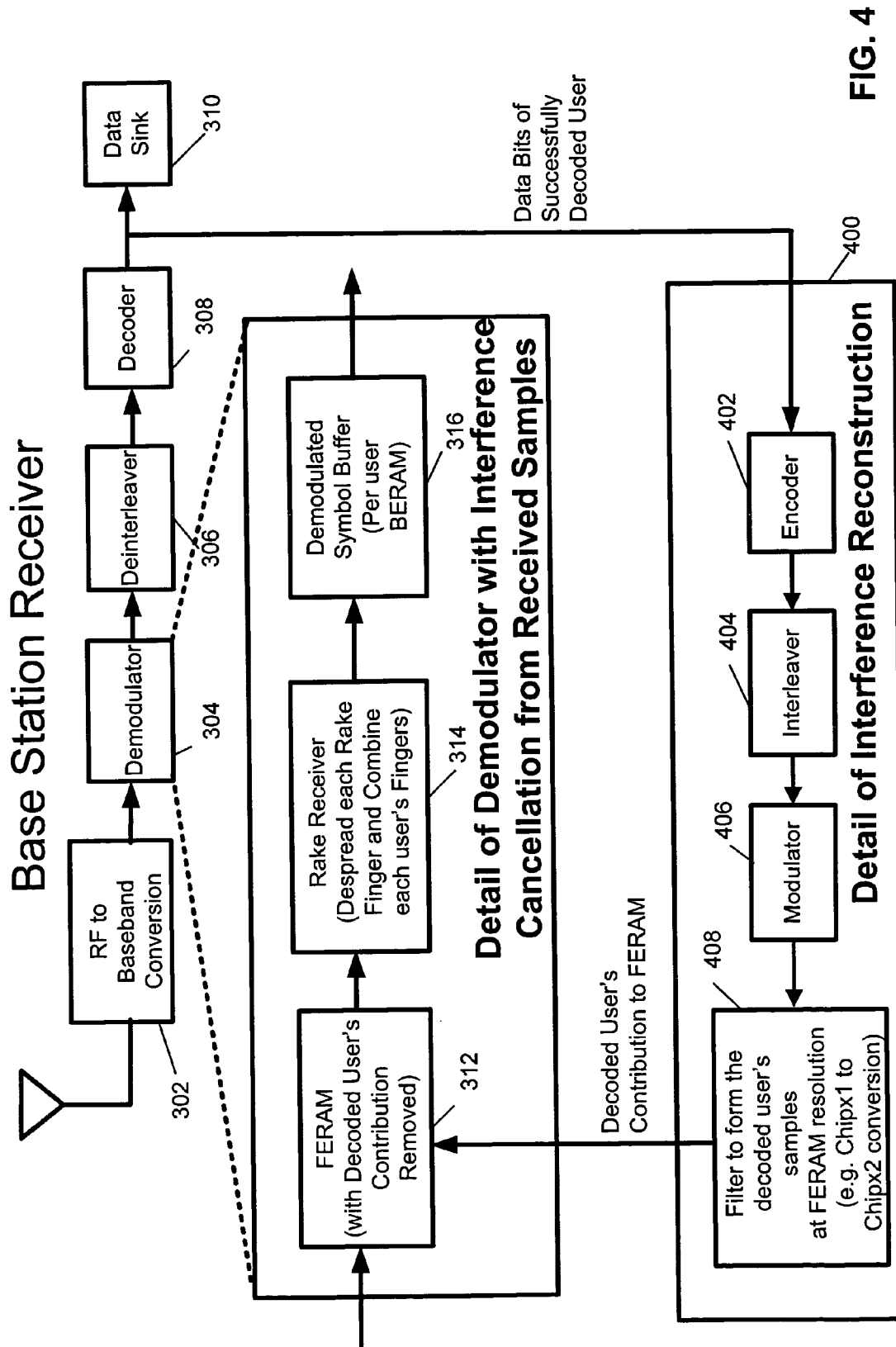


FIG. 1





**FIG. 4**

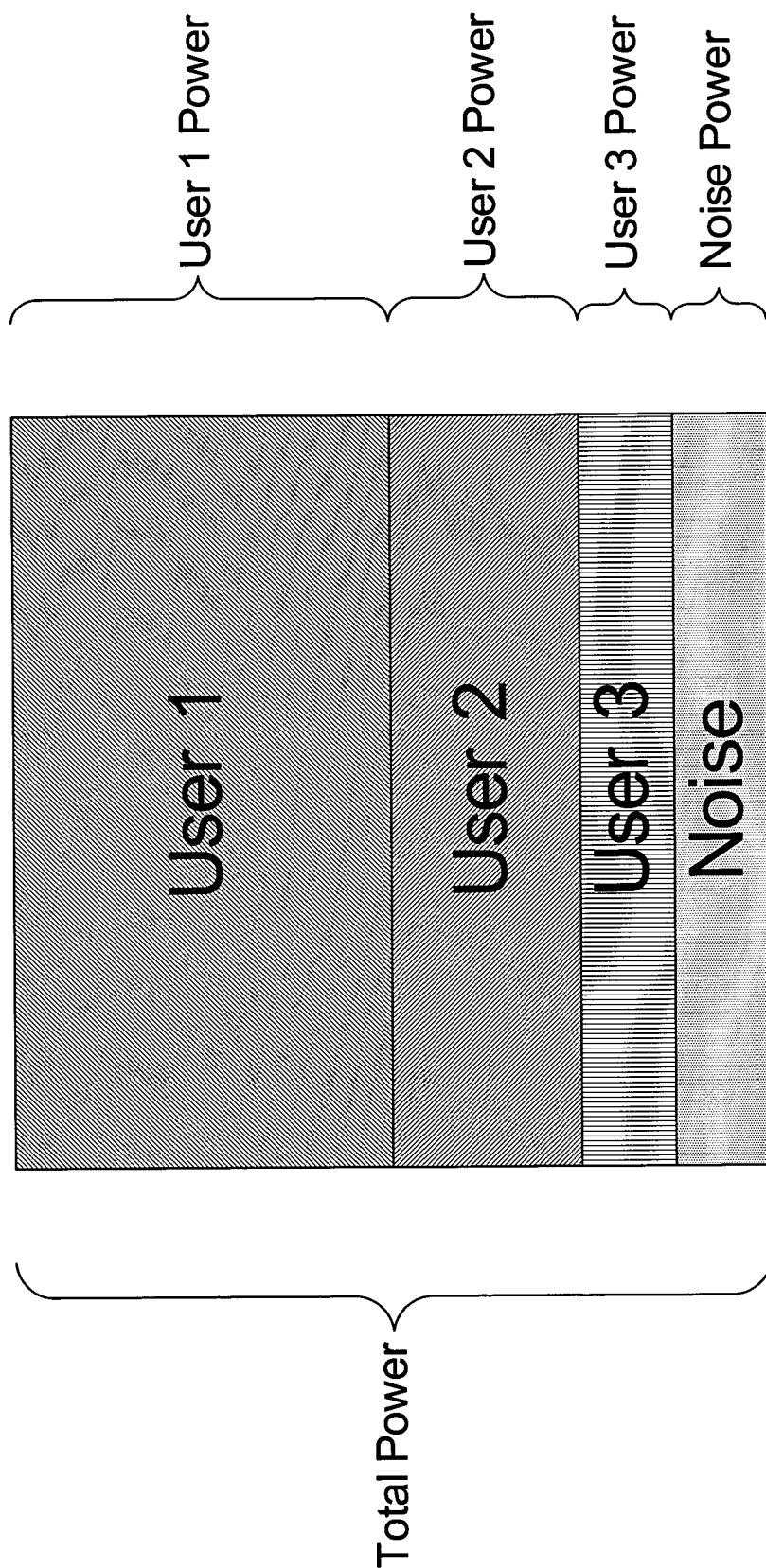


FIG. 5

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