

EXHIBIT C



(12) **United States Patent**
Esmailzadeh et al.

(10) **Patent No.:** **US 6,813,261 B1**
 (45) **Date of Patent:** **Nov. 2, 2004**

(54) **METHOD OF MOBILE COMMUNICATION AND APPARATUS THEREFOR**

6,111,869 A * 8/2000 Esmailzadeh et al. 370/342
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Nobukazu Doi, Hachioji (JP)

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Tobagi et al, Packet Switching in Radio Channels: Part III—Polling and (Dynamic) Split-Channel Reservation Multiple Access, IEEE, pp. 832–845, Aug. 1976.*
 R. Esmailzadeh et al, Spread Spectrum Slot Reservation Multiple Access, IEEE (1996), pp. 1715–1719.

(73) Assignee: **Hitachi, Ltd.**, Tokyo (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

* cited by examiner

(21) Appl. No.: **09/512,820**

Primary Examiner—Frank Duong

(22) Filed: **Feb. 25, 2000**

(74) *Attorney, Agent, or Firm*—Mattingly, Stanger & Malur, P.C.

Related U.S. Application Data

(63) Continuation of application No. 08/907,088, filed on Aug. 6, 1997, now Pat. No. 6,111,869.

Foreign Application Priority Data

Aug. 7, 1996 (JP) 8-208035

(51) **Int. Cl.**⁷ **H04B 7/216**

(52) **U.S. Cl.** **370/342; 370/335**

(58) **Field of Search** 370/320, 335, 370/208, 209, 420, 441, 342, 348, 329, 913; 375/130, 140, 145, 149; 455/550, 561, 575, 567, 95

(57) **ABSTRACT**

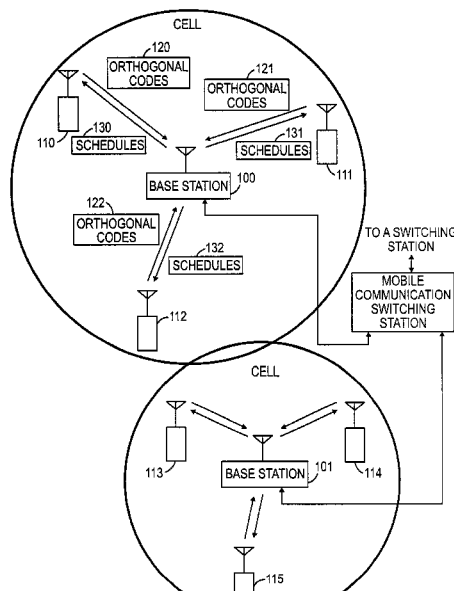
In order to accomplish efficient communication of data between a base station and a plurality of mobile terminals, particular orthogonal codes are transmitted from the mobile stations to the base station as alert signals indicating the presence of data to be transmitted. The base station checks whether particular orthogonal codes are contained in the alert signals, and when the particular orthogonal codes are detected in the alert signals, information representing the detected orthogonal codes and the schedules for transmitting the data from the mobile terminals to the base station are transmitted from the base station to the mobile terminals as an alert response to the alert signals. When the information representing the orthogonal codes used for the alert signals are contained in the alert response transmitted from the base station to the mobile terminals, the data waiting to be transmitted is transmitted from the mobile terminals to the base station according to the data transmission schedules in the alert response.

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36 Claims, 10 Drawing Sheets



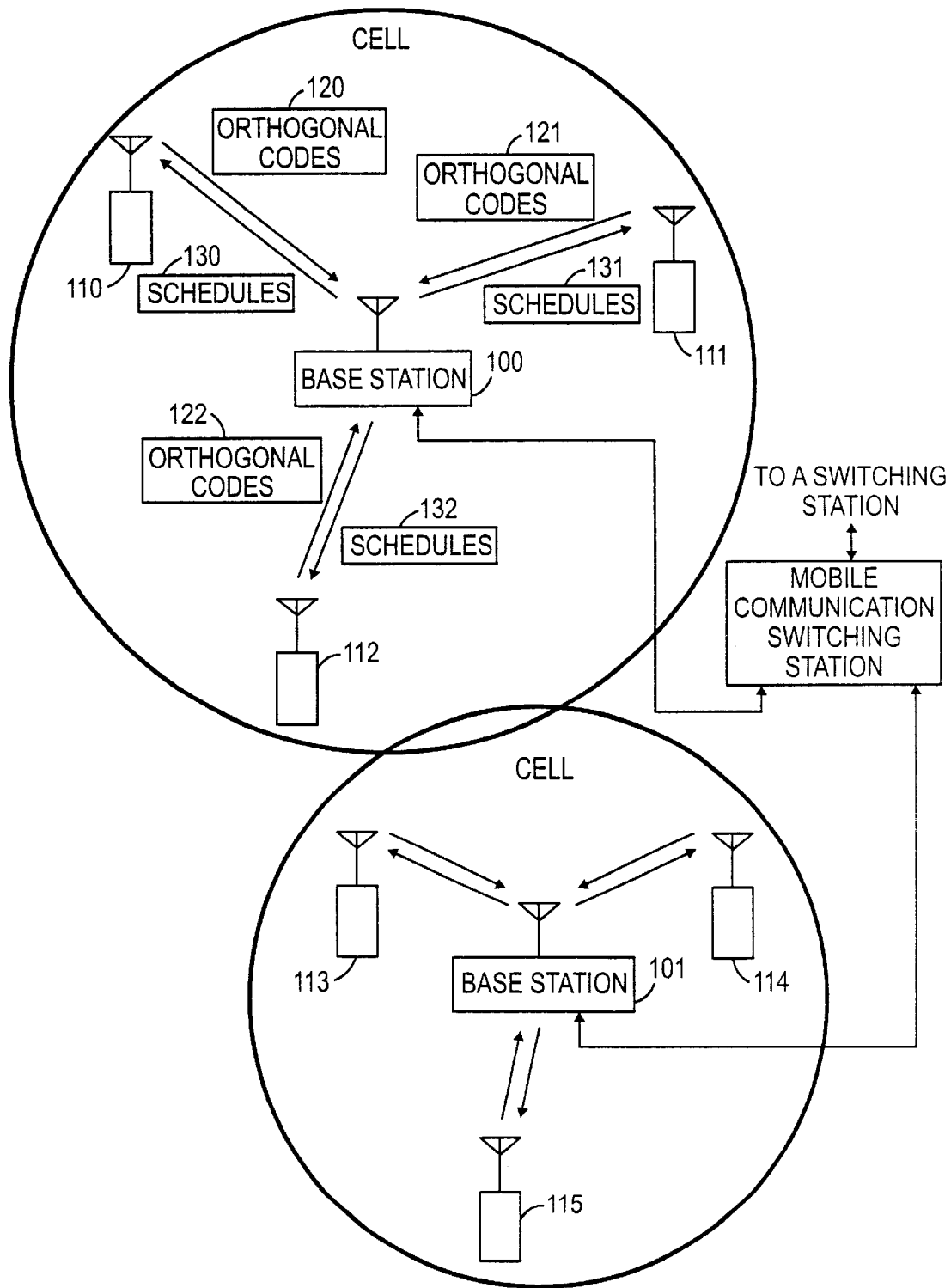
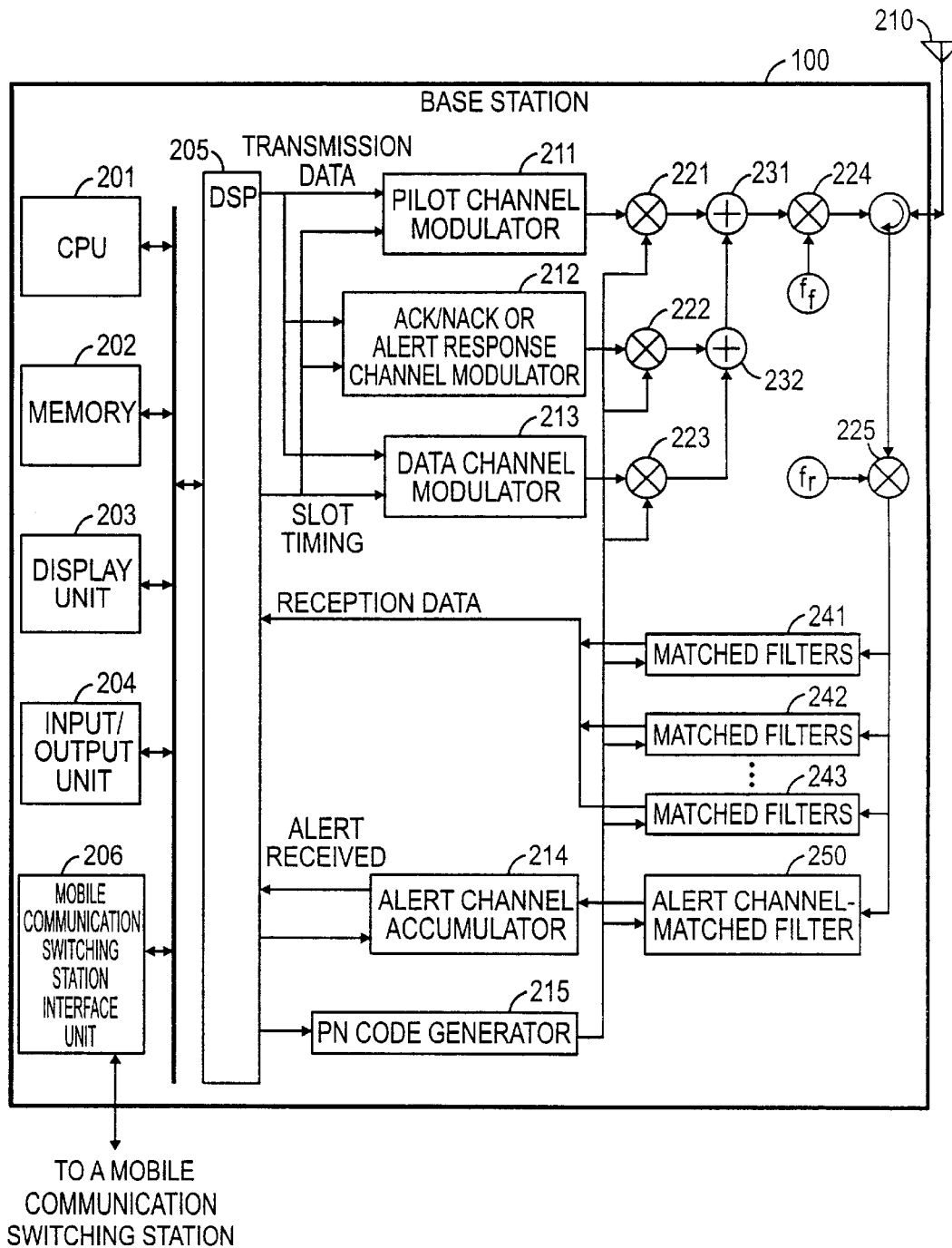


FIG. 1



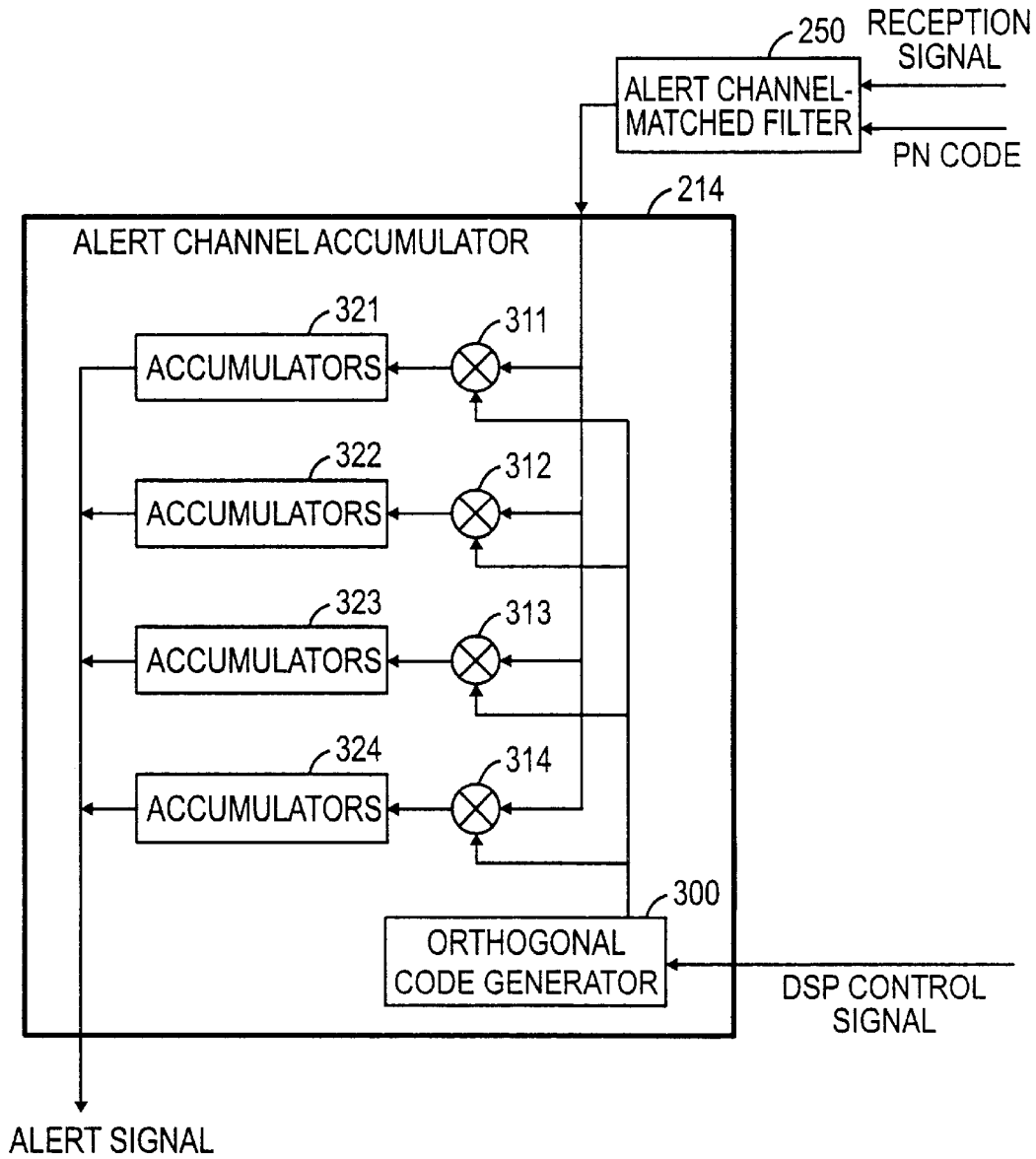


FIG. 3

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