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Han et al.

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(54) **METHOD AND APPARATUS FOR GENERATING AND TRANSMITTING CODE SEQUENCE IN A WIRELESS COMMUNICATION SYSTEM**

(75) Inventors: **Seung Hee Han**, Seoul (KR); **Min Seok Noh**, Seoul (KR); **Yeon Hyeon Kwon**, Suwon-si (KR); **Hyun Hwa Park**, Anyang-si (KR); **Hyun Woo Lee**, Anyang-si (KR); **Dong Cheol Kim**, Uiwang-si (KR)

(73) Assignee: **LG Electronics Inc.**, Seoul (KR)

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(51) **Int. Cl.**
H04B 1/00 (2006.01)
(52) **U.S. Cl.** **375/142**; 370/203; 370/208;
375/131; 375/140; 375/146; 375/148
(58) **Field of Classification Search** 370/203;
375/131, 142
See application file for complete search history.

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Primary Examiner—David C Payne
Assistant Examiner—Adolf Dsouza

(74) *Attorney, Agent, or Firm*—Lee, Hong, Degerman, Kang & Waimey

(57) **ABSTRACT**

A method of generating a code sequence in a wireless communication system is disclosed. More specifically, the method includes recognizing a desired length of the code sequence, generating a code sequence having a length different from the desired length, and modifying the length of the generated code sequence to equal the desired length. Here, the step of modifying includes discarding at least one element of the generated code sequence or inserting at least one null element to the generated code sequence.

11 Claims, 18 Drawing Sheets

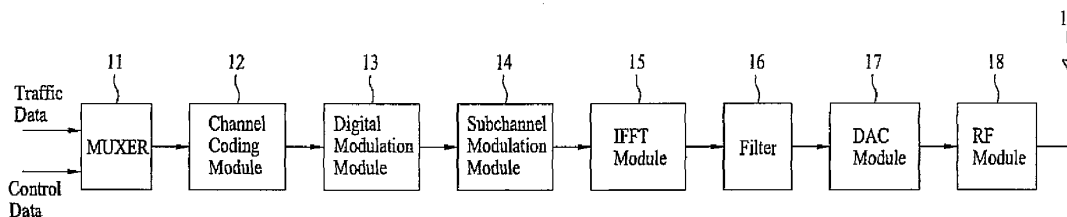


FIG. 1

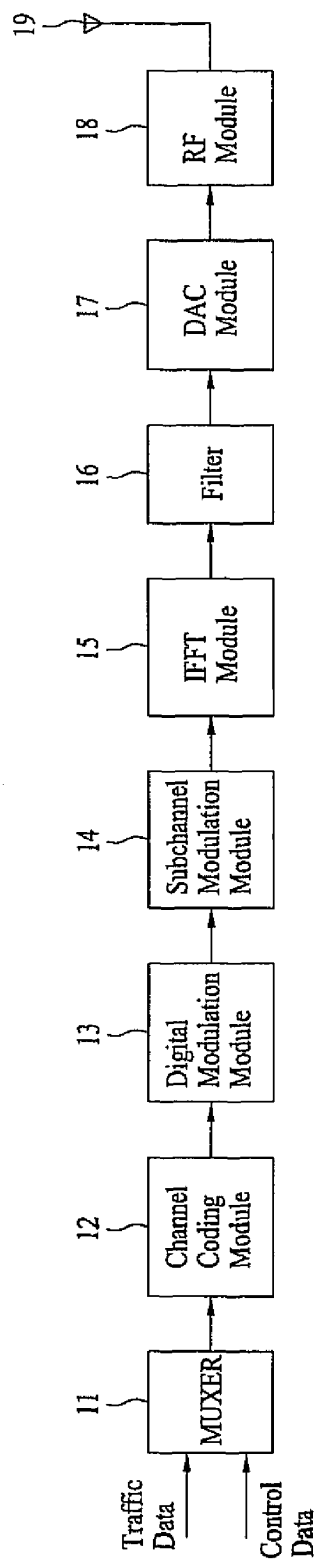


FIG. 2

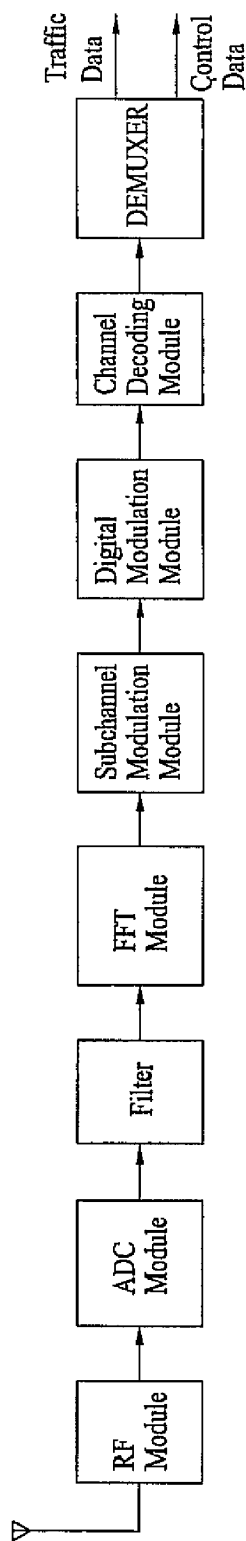


FIG. 3

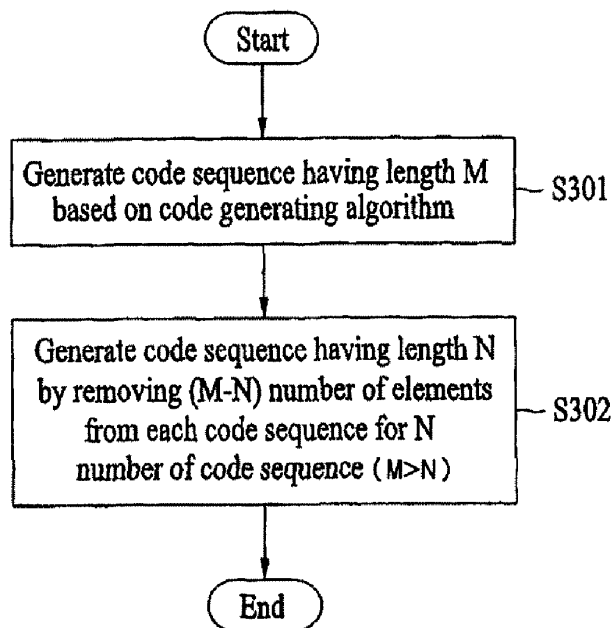
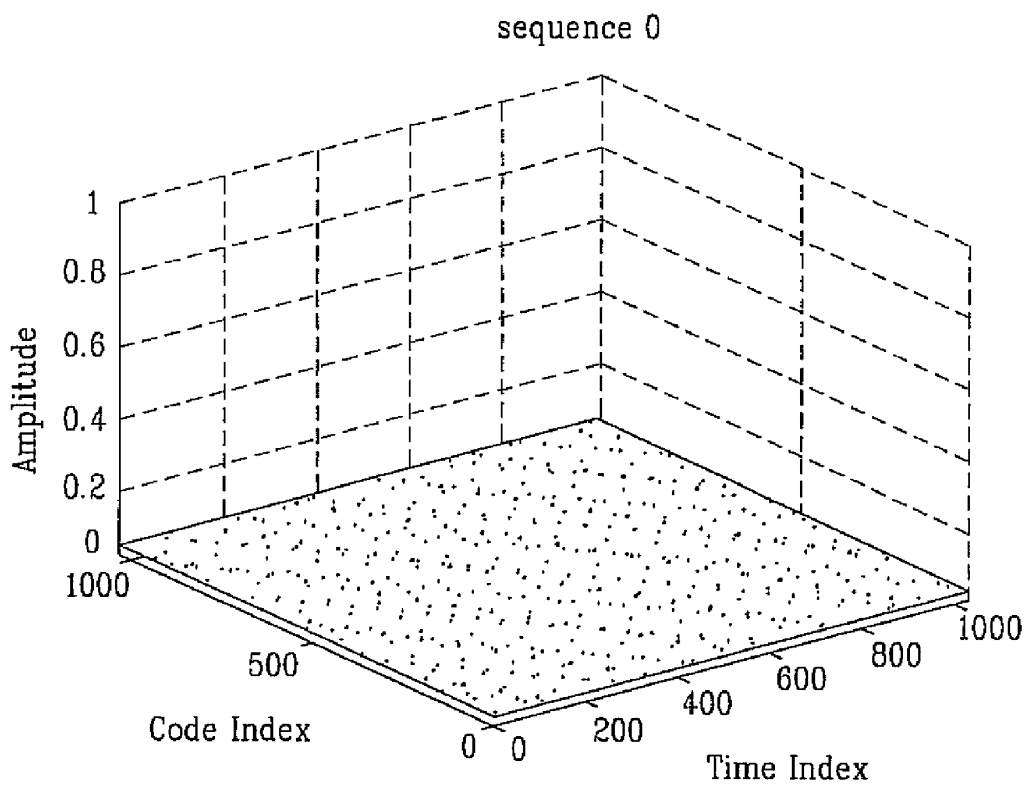


FIG. 4



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