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Esteves et al.

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(54) **METHOD AND APPARATUS FOR FAST CLOSED-LOOP RATE ADAPTATION IN A HIGH RATE PACKET DATA TRANSMISSION**

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H04B 7/212 (2006.01)

(52) **U.S. Cl.** **370/322; 370/348; 370/443**

(58) **Field of Classification Search** 370/395.2, 370/442, 232, 243, 230.1, 352, 252, 253, 370/335, 340, 412, 337, 450, 451, 454, 458, 370/459, 468, 452, 322, 348, 347, 524; 375/225, 375/133, 227, 222; 455/69, 62, 67.11, 67.13, 455/452.2, 450, 436, 509, 519; 340/502, 340/825.25

See application file for complete search history.

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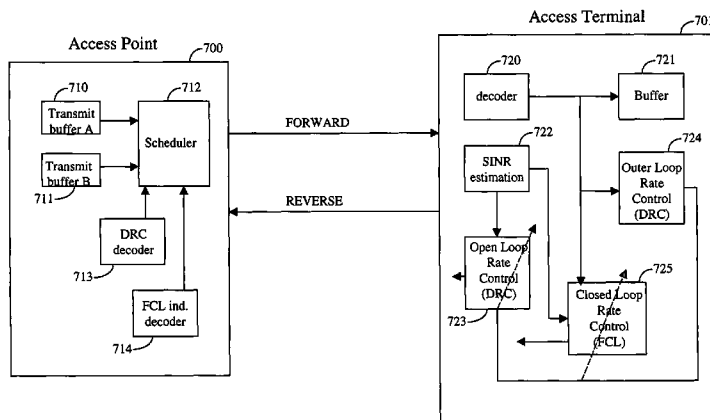
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(57) **ABSTRACT**

In a high data rate communication system capable of variable rate transmission, an open loop rate control can be adjusted with a closed loop rate control to maximize throughput. An access point generates interleaved multi-slot packets that allow an access terminal to transmit indicator messages to the access point in accordance with recently received data carried within slots of the multi-slot packets.

18 Claims, 4 Drawing Sheets



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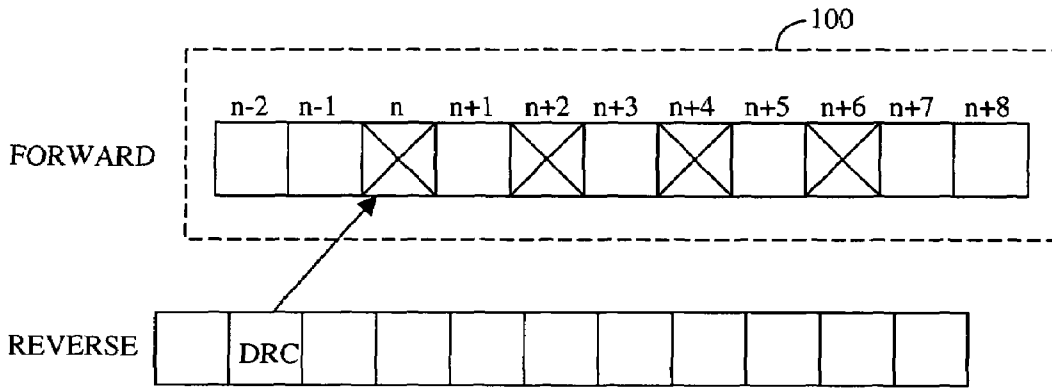


FIG. 1

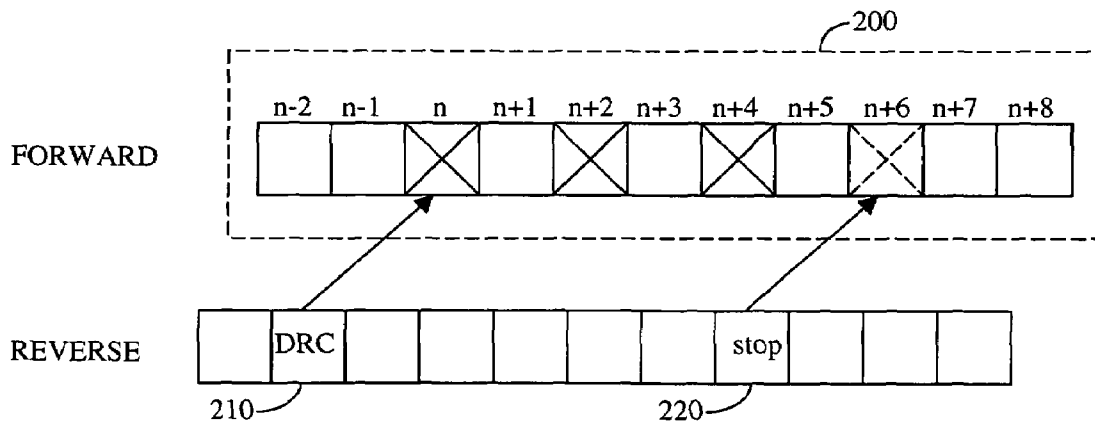


FIG. 2

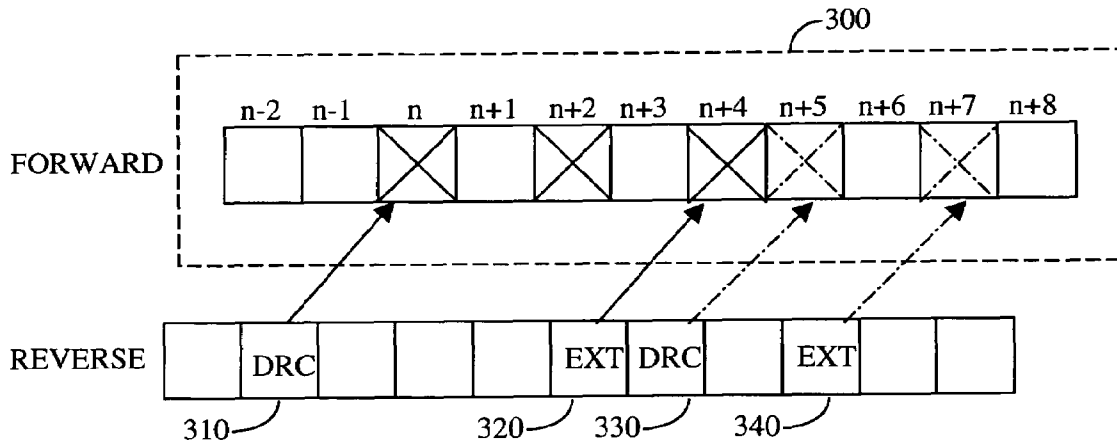


FIG. 3

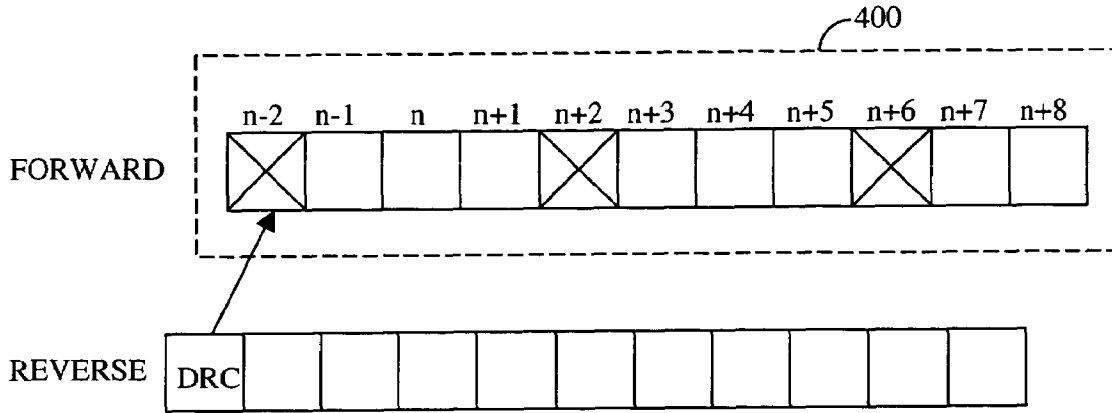


FIG. 4

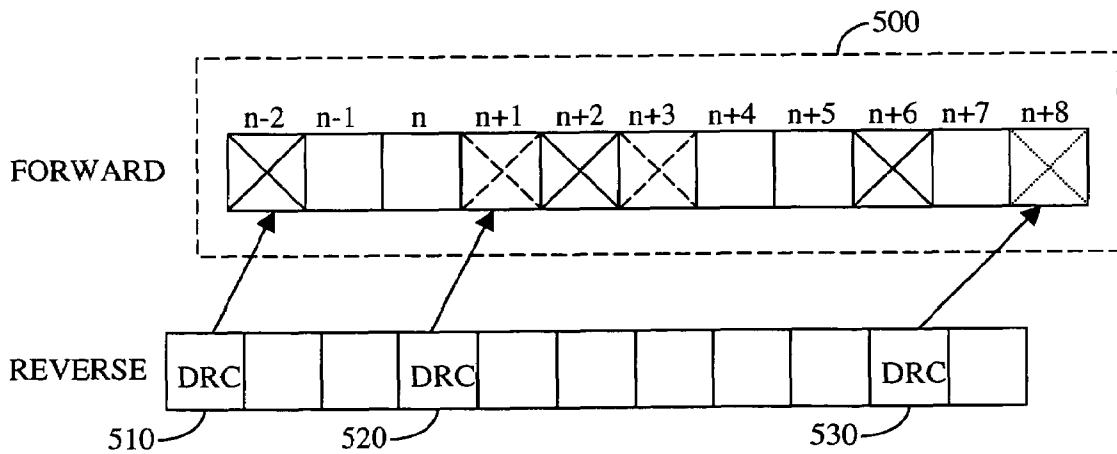


FIG. 5

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