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[54] **METHOD FOR INCREASING THROUGHPUT CAPACITY IN A COMMUNICATION SYSTEM**

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[52] **U.S. Cl.** **370/347**; 370/468; 370/474

[58] **Field of Search** 370/79, 80, 82, 370/84, 95.1, 95.2, 95.3, 99, 347, 350, 442, 465, 468, 469, 474

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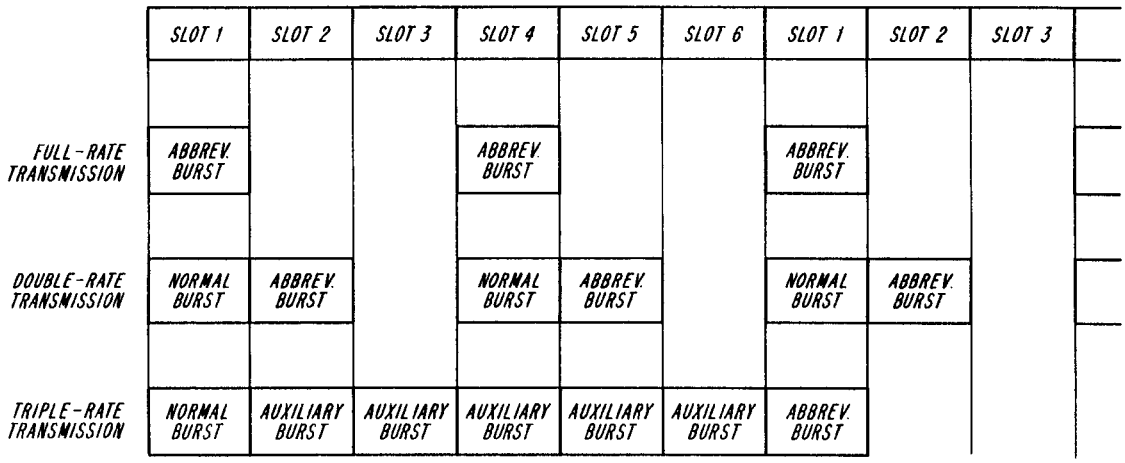
[57] **ABSTRACT**

A method for increasing throughput capacity of a mobile station transmitting a plurality of consecutive bursts to a base station in a communication system is disclosed. The first burst is transmitted using a normal burst format while succeeding consecutive bursts are transmitted using an auxiliary burst format wherein the auxiliary bursts contain larger data fields than normal bursts.

25 Claims, 9 Drawing Sheets