

ABSTRACT

**A SINGLE CARRIER/DS-CDMA PACKET TRANSMISSION METHOD,
AN UPLINK PACKET TRANSMISSION METHOD IN A
MULTI-CARRIER/DS-CDMA MOBILE COMMUNICATIONS SYSTEM,
AND A STRUCTURE OF A DOWNLINK CHANNEL IN A MULTI-
CARRIER/DS-CDMA MOBILE COMMUNICATIONS SYSTEM**

A downlink channel structure is provided in a multi-carrier/DS-CDMA mobile communication system that expands a bandwidth of information symbols by a sequence of spreading codes and transmits spreading information signal obtained by the bandwidth expansion by using a plurality of subcarriers having predetermined frequency intervals. In the downlink channel structure, a plurality of communication channels assigned to the respective subcarriers are divided into predetermined time frames and multiplexed, and the plurality of communication channels assigned to the respective subcarriers are configured to include a common-control channel shared by a plurality of users and communication channels specific to the respective users.

Figure 49