

ABSTRACT

**METHOD AND APPARATUS FOR ALLOCATING RESOURCES OF A
CONTROL CHANNEL IN A MOBILE COMMUNICATION SYSTEM USING
ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING**

A method is provided for allocating resources of a control channel in a mobile communication system using Orthogonal Frequency Division Multiplexing (OFDM). The method includes, when a time index and a frequency index of available Resource Elements (REs) are defined as l and k , respectively, dividing the available REs in a two-dimensional structure of (k, l) ; and time-first-allocating each RE to a plurality of RE groups while increasing the time index l for each frequency index k from an initial value up to a predetermined range.

FIG. 2