

ABSTRACT

USER DEVICE, BASE STATION APPARATUS, AND METHOD

5 User equipment that is capable of transmitting at least
an uplink control channel to a base station apparatus
using a single carrier method and to which persistent
scheduling is applied, the user equipment includes a
unit providing data arrival acknowledgement information,
10 a unit providing channel quality information, a control
channel generation unit generating an uplink control
channel including at least one of the data arrival
acknowledgement information or the channel quality
information, and a transmission unit transmitting the
15 uplink control channel using a predetermined dedicated
bandwidth, in which the uplink control channel includes
at least one unit block including a sequence in which a
same factor reported using an upper-layer signaling is
multiplied to each chip of an orthogonal code sequence
20 for the user equipment.

Fig. 5