

ABSTRACT

USER DEVICE, BASE STATION DEVICE, AND METHOD

5 A disclosed user device generates an uplink
control channel including at least one of
acknowledgement information and a channel quality
indicator regarding downlink and transmits the uplink
control channel via a dedicated frequency band when no
10 resource is allocated for transmission of an uplink data
channel. The uplink control channel includes multiple
unit blocks constituting a subframe and each of the unit
blocks includes a sequence generated by multiplying all
chips of an orthogonal code sequence assigned to the
15 user device by the same factor.

FIG. 8