

(11) EP 3 402 108 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication: 14.11.2018 Bulletin 2018/46

(51) Int Cl.: **H04L 1/16** (2006.01)

(21) Application number: 18181360.1

(22) Date of filing: 18.06.2010

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

(30) Priority: 19.06.2009 JP 2009146592 02.11.2009 JP 2009252051

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 10789258.0 / 2 445 249

(71) Applicant: Godo Kaisha IP Bridge 1 Tokyo 101-0051 (JP) (72) Inventors:

 NAKAO, Seigo Chiyoda-ku, Tokyo 101-0051 (JP)

 IMAMURA, Daichi Chiyoda-ku, Tokyo 101-0051 (JP)

(74) Representative: Grünecker Patent- und Rechtsanwälte
PartG mbB
Leopoldstraße 4
80802 München (DE)

Remarks:

This application was filed on 03-07-2018 as a divisional application to the application mentioned under INID code 62.

(54) TERMINAL DEVICE AND RETRANSMISSION CONTROL METHOD

(57) Provided are a terminal device and a retransmission control method which enable the avoidance of the degradation of transmission characteristics of a response signal and the minimization of the increase of the overhead of an uplink control channel when ARQ is applied in communication using an uplink unit band and a plurality of downlink unit bands associated with the uplink unit band. In a terminal (200), a control unit (209) transmits a bundle response signal using a resource in a basic region of an uplink control channel in an uplink unit band of a unit band group when no error is detected in each of a plurality of pieces of downlink data of the unit band group, the uplink control channel in the uplink unit band being associated with a downlink control channel in a basic unit band that is a downlink unit band in which a broadcast channel signal including information relating to the uplink unit band is transmitted, and the control unit transmits the bundle response signal using a resource in an additional region of the uplink control channel when an error is detected in each of the plurality of pieces of downlink data.

