

PHYSICAL UPLINK CONTROL CHANNEL SENDING METHOD, RECEIVING METHOD, AND COMMUNICATION APPARATUS

ABSTRACT

This application discloses a physical uplink control channel sending method, a receiving
5 method, and a communication apparatus. The method includes: A terminal device determines a
first transmission manner from a plurality of transmission manners including a first non-frequency
hopping transmission manner, and sending a PUCCH in the first transmission manner. The first
non-frequency hopping transmission manner is: sending the PUCCH without frequency hopping
in a time unit. UCI on the PUCCH includes a first part and a second part, the first part is sent by
10 using an orthogonal sequence whose length is $L1$, and the second part is sent by using an
orthogonal sequence whose length is $L2$. The UCI is divided into two parts, and is sent without
frequency hopping by using orthogonal sequences with a same length or different lengths. Even if
a normal terminal device and a reduced capability terminal device share a PUCCH resource,
interference to PUCCH transmission of the normal device can be avoided.

15

FIG. 12