Abstract

A method for multiplexing~~The present application relates to an~~ uplink control information (UCI) for unlicensed band transmission is performed by a terminal device. The method includes: in response to a time-domain overlap between a configure grant-physical uplink share channel (CG-PUSCH) and a hybrid automatic repeat request acknowledgement (HARQ-ACK) carried on a physical uplink control channel (PUCCH), determining, based on a priority of the CG-PUSCH and a priority of the HARQ-ACK, a multiplexing mode for CG-UCI carried on the CG-PUSCH and the HARQ-ACK; and transmitting information to a network device based on the multiplexing mode, wherein the information transmitted includes at least one of the CG-UCI or the HARQ-ACK~~multiplexing method and apparatus. Embodiments of the present application provide a UCI multiplexing method. In response to occurrence of overlapping in time domain between a CG-PUSCH and a HARQ-ACK carried on a PUCCH, a multiplexing mode for CG-UCI carried on the CG-PUSCH and the HARQ-ACK can be determined on the basis of the priority of the CG-PUSCH and the HARQ-ACK; the CG-UCI and/or the HARQ-ACK are/is transmitted to a network device on the basis of the multiplexing mode. The present application is applied to the scenario that overlapping in time domain occurs between a CG-PUSCH and a HARQ-ACK carried on a PUCCH over an unlicensed band. The multiplexing transmission of the CG-PUSCH and the HARQ-ACK can be achieved over the unlicensed band according to the priority of the CG-PUSCH and the HARQ-ACK, such that the transmission latency and reliability of UCI in a URLLC service can be ensured~~.

FIG. 2