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(54) **DATA TRANSMISSION METHOD FOR HYBRID ARQ TYPE II/III DOWNLINK OF WIDE-BAND RADIO COMMUNICATION SYSTEM**

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(57) **ABSTRACT**

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A data processing method for a hybrid ARQ type II/III on a downlink of a wide-band radio communication system, wherein SRNC which is directly connected to a user equipment to allocate wireless resources to the user equipment and provides services by interlocking with a wireless communication core network in case of a call connection and CRNC which controls a sharing channel of a radio network are located on the different radio network includes the steps of: a) generating a RLC-PDU in a RLC layer of the SRNC and generating a part having RLC-PDU information needed for supporting the hybrid ARQ type II/III based on a header of the RLC-PDU (hereinafter, referred to as a HARQ-RLC-Control-PDU); b) transmitting the RLC-PDU and the HARQ-RLC-Control-PDU to MAC-D treating a general user part of a MAC layer through a logical channel; c) transmitting the RLC-PDU and the HARQ-RLC-Control-PDU of the MAC-D of the SRNC to MAC-C/SH treating common/shared channel part on the MAC layer of the CRNC; d) transforming the RLC-PDU and the HARQ-RLC-Control-PDU of the MAC-C/SH of the CRNC to a transmission block and transmitting it to a physical layer of a base station through a transport channel; and e) processing the transmission block to a radio transmission form in the physical layer of the base station and transmitting it to the base station through the physical layer.

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