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(54) **Title:** COMMUNICATION APPARATUS AND COMMUNICATION METHOD FOR TRANSMISSION OVER COMBINATIONS OF MULTIPLE RESOURCE UNITS

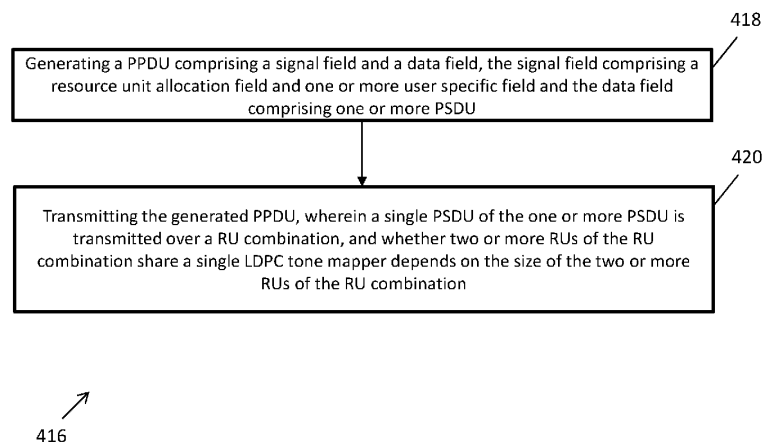


Fig. 4B

(57) **Abstract:** The present disclosure provides communication apparatus and communication method for transmission over combinations of multiple resource units. The communication apparatus comprises: circuitry, which, in operation, generates a physical layer protocol data unit (PPDU) comprising a signal field and a data field, the signal field comprising a resource unit (RU) allocation field and one or more user specific field and the data field comprising one or more physical layer service data unit (PSDU); and a transmitter, which, in operation, transmits the generated PPDU, wherein a single PSDU of the one or more PSDU is transmitted over a RU combination, and whether two or more RUs of the RU combination share a single low density parity check tone mapper depends on the size of the two or more RUs of the RU combination.

[Continued on next page]

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