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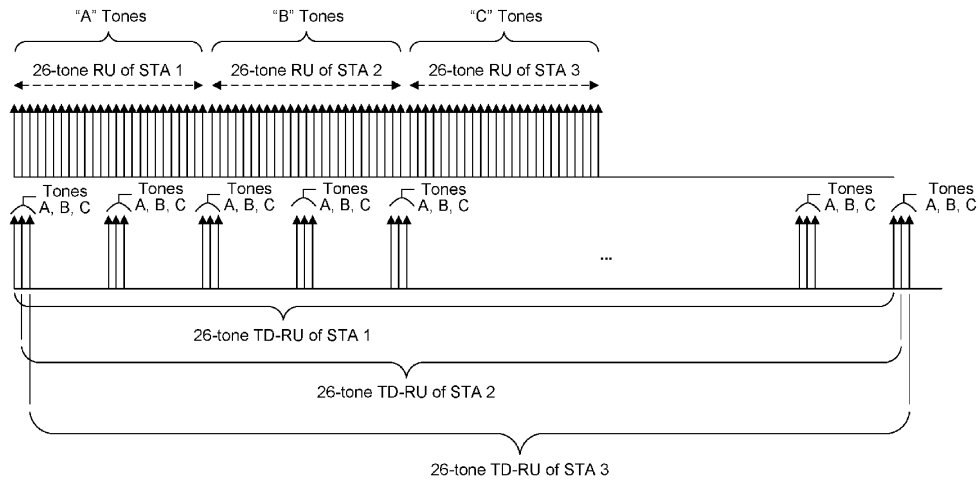
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- (71) Applicant: **INTERDIGITAL PATENT HOLDINGS, INC.** [US/US]; 200 Bellevue Parkway, Suite 300, Wilmington, Delaware 19809 (US).
- (72) Inventors: **SAAD, Mahmoud**; 1000 Sherbrooke St, Montreal, Québec H3A 3G4 (CA). **LOU, Hanqing**; 425 Broadhollow, Suite 203, Melville, New York 11747 (US). **HOQUE, Safi Shams Muhtasimul**; 111 West 33rd Street, Suite 1420, New York, New York 10120 (US). **YANG, Rui**; 425 Broadhollow, Suite 203, Melville, New York 11747 (US). **LIN, Zinan**; 74 Liberty Ridge Rd, Basking Ridge, New Jersey 07920 (US).
- (74) Agent: **SANTOS, Julian F.**; 200 Bellevue Parkway, Suite 300, Wilmington, Delaware 19809 (US).
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(54) Title: PHYSICAL LAYER METHODS TO ENABLE TONE-DISTRIBUTED RESOURCE UNITS



Example Tone Distribution of 26-tone regular RUs into a Combined TD-RU in 20 MHz

FIG. 7

(57) Abstract: A method for communication performed by a wireless transmit/receive unit (WTRU) in a wireless local area network includes transmitting a message in a group of data tones in a combined tone-distributed resource unit (TD-RU), wherein a signal field of a preamble of a protocol data unit (PDU) indicates the data tones used for the transmission of the message, and wherein the combined TD-RU is composed of a tone plan that includes an arrangement of data tones such that a first and second small TD-RUs are included in the combined TD-RU, where the combined TD-RU has a bandwidth that encompasses a combined bandwidth of the first small TD-RU and a bandwidth of the second small TD-RU, wherein the arranged data tones in the combined TD-RU are organized in multiple groups of one or more tones, and receiving a message via the data tones of the combined TD-RU.

[Continued on next page]

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