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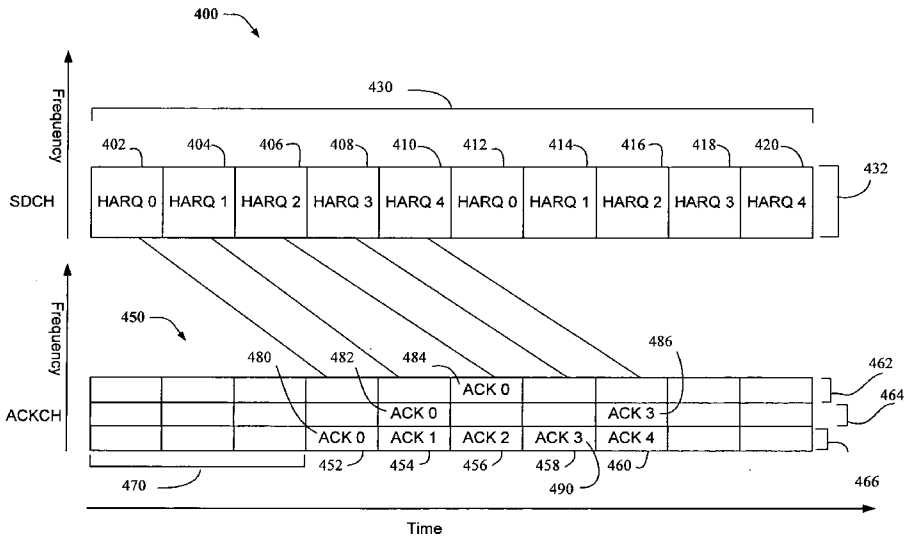
Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

[Continued on next page]

(54) **Title:** METHOD AND APPARATUS FOR ACKNOWLEDGMENT REPETITION IN ORTHOGONAL SYSTEMS



(57) **Abstract:** A method and apparatus for a wireless communication system, using a repetition factor to determine how many times a acknowledgement should be repeated in response to receiving a first data transmission, selecting an acknowledgement transmission (ACK TX) pattern, wherein the ACK TX pattern comprises of resources information of a plurality of blocks used for transmitting the first acknowledgement, and transmitting, repeatedly, the acknowledgements according to the ACK TX pattern.

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