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(54) **Title:** CHANNEL RESERVATION IN FREQUENCY MULTIPLEXED COMMUNICATION IN DENSE WIRELESS ENVIRONMENTS

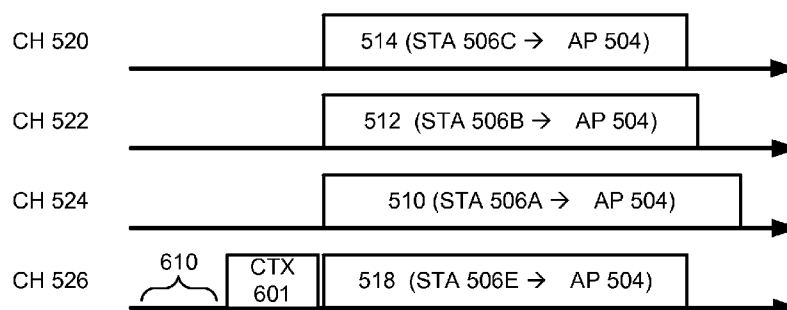


FIG. 6C

(57) **Abstract:** Systems, methods, and devices for high-efficiency wireless frequency division multiplexing are provided. A method includes receiving, at a first wireless device, a reference signal from an associated access point, the reference signal indicative of a time of joint transmission with at least a second wireless device. The method further includes transmitting a first communication to the access point based on the reference signal, the communication utilizing a first subset of wireless frequencies available for use. The first communication is concurrent with a second communication, from the second wireless device, utilizing a second subset of wireless frequencies, the second subset excluding the first subset.