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(54) Title: MULTIPLEXING OF FEEDBACK CHANNELS IN A WIRELESS COMMUNICATION SYSTEM

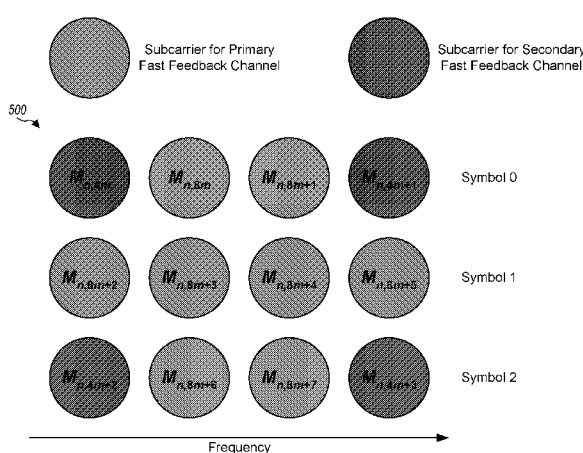


FIG. 5

(57) Abstract: Techniques for sending signaling in a wireless communication system are described. Multiple feedback channels may be multiplexed such that they can share time frequency resources. Each feedback channel may be allocated a different subset of subcarriers in each of at least one tile. In one design, a subscriber station may determine time frequency resources including first and second portions of time frequency resources for first and second feedback channels, respectively. The subscriber station may send vectors of modulation symbols of a first length on the first feedback channel and/or vectors of modulation symbols of a second length on the second feedback channel. A base station may receive the first and second feedback channels and may perform detection on vectors of received symbols for each feedback channel to recover the signaling sent on that feedback channel.

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