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(54) **SUB-SLOT BASED CODEBOOK CONSTRUCTION TECHNIQUES**
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(57) **ABSTRACT**

Techniques are described to perform sub-slot based codebook construction. An example wireless communication method includes determining, by a communication node, a plurality of shared channels that are valid for constructing a hybrid automatic repeat request (HARQ) acknowledgement (ACK) codebook for a first time slot, where the plurality of shared channels are determined based on locations of the plurality of shared channels relative to one or more second time slots; determining, by the communication node, one or more groups of shared channels for the plurality of shared channels for the first time slot, where each group of shared channels comprises at least one shared channel from the plurality of shared channels; and performing, by the communication node, the HARQ-ACK codebook transmission.

