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(54) **TECHNIQUES FOR CYCLIC PREFIX  
COMPATIBLE FORMULATION OF SINGLE  
CARRIER WAVEFORMS**

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(57) **ABSTRACT**

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Methods, systems, and devices for wireless communications are described. Techniques described herein provide for formulating single carrier waveforms into an orthogonal frequency-division multiple access (OFDMA) framework. To fit into the cyclic prefix OFDM (CP-OFDM) grid, a frequency domain fast Fourier transform (FFT) may be applied to the single carrier waveform, a bandwidth expansion and spectrum shaping may be applied to the output of the FFT and inverse FFT (IFFT) processing may be applied to the output of the bandwidth expansion and spectrum shaping. The output of the IFFT may then be represented in an OFDM compatible manner.

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