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Remarks:

This application was filed on 18-04-2011 as a
divisional application to the application mentioned
under INID code 62.

(54) **Multi-sector broadcast paging channel**

(57) Systems and methods are described that facilitate improving paging signal strength at or near sector perimeters in a wireless network region by transmitted identical paging waveforms simultaneously from all sectors in the region and permitting over-the-air signal aggregation to combine signal energy near sector perimeters. Waveforms can be modulated using an orthogonal frequency division multiplexing technique and can be simultaneously transmitted according to predefined transmission resources over a multi-sector broadcast paging channel reserved for such identical waveforms. Cyclic prefix can be added to the identical waveforms to mitigate problems associated with delay spread and/or time-of-arrival differences at or near sector perimeters.

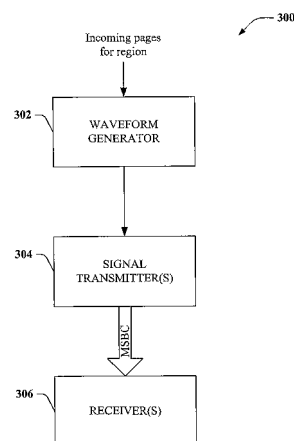


FIG. 3