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Chen et al.

- (54) METHOD OF PROCESSING AN OFDM SIGNAL AND OFDM RECEIVER USING THE SAME
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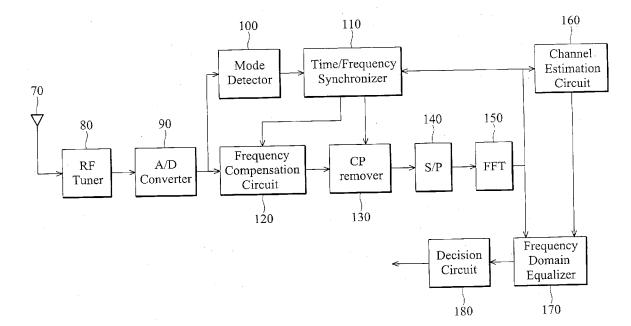
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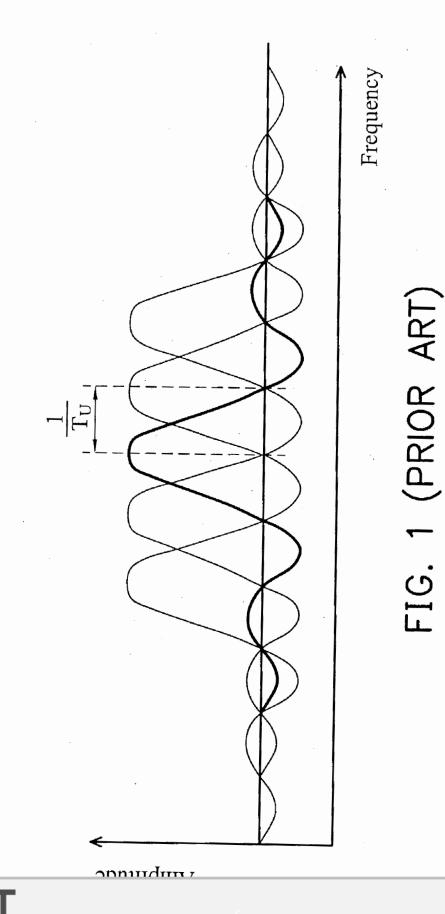
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(57) **ABSTRACT**

A method of processing an OFDM signal to determine its FFT mode or the number of carriers without regard to the pilot pattern. The OFDM receiver determines autocorrelation functions corresponding to a plurality of possible FFT modes and variation-to-average ratios of these autocorrelation functions, respectively. The correct FFT mode is determined based on the variation-to-average ratios. In addition, a novel time and frequency synchronization scheme is performed after the correct FFT mode is detected.





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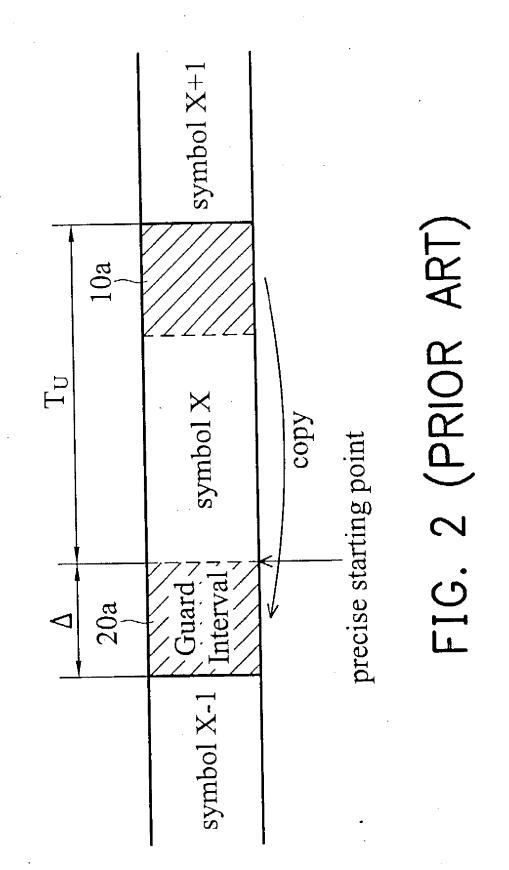
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(+) TPS Carrier

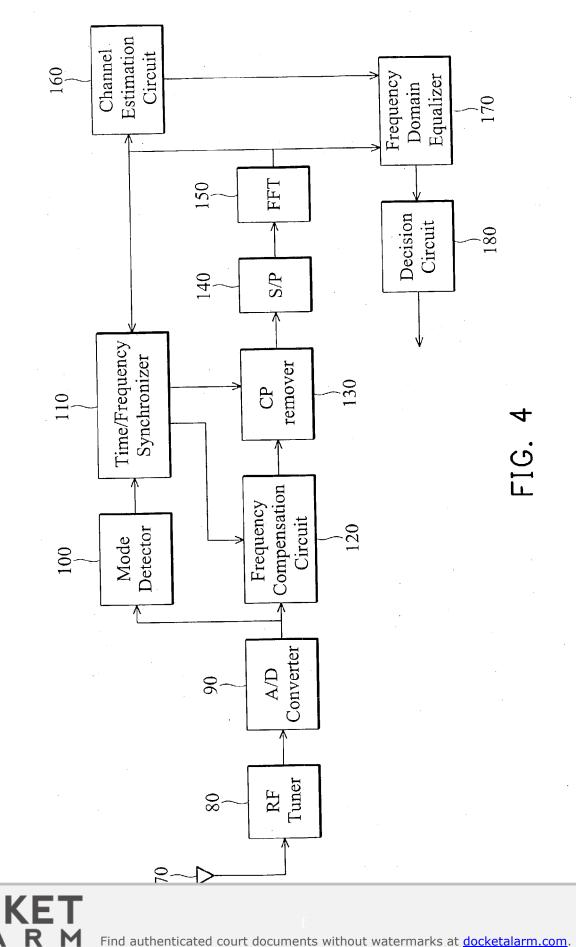
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