

Power Amplifier Having Nested Amplitude Modulated
Controller and Phase Modulation Controller

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Abstract of the Disclosure

Transmitting signals containing amplitude modulated (AM) and phase modulation (PM) components requires a transmitter having AM and PM control loops (515, 517). The PM control loop provides phase modulation, frequency translation and phase predistortion for a transmitter. The phase predistortion/correction is accomplished by using an oscillator (505), thus, the amount of PA phase correction is essentially unlimited. Additionally, the PM control loop (517) is nested about a power amplifier (507) (PA), allowing the PM control loop (517) to correct for any distortion introduced by the PA (507).

THIS SHEET HAS BEEN
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