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(54) **RF AMPLIFIER ARCHITECTURE AND RELATED TECHNIQUES**

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See application file for complete search history.

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(57) **ABSTRACT**

A radio frequency (RF) power amplifier system or transmitter includes one or more power amplifiers and a controller that is configured to adjust amplitudes and phases of RF input signals of the one or more power amplifiers and supply voltages applied to the one or more power amplifiers. In embodiments where multiple power amplifiers are used, a combiner may be provided to combine outputs of the power amplifiers.

22 Claims, 21 Drawing Sheets

