RF AMPLIFIER ARCHITECTURE AND RELATED TECHNIQUES

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Appl. No.: 14/338,671
Filed: Jul. 23, 2014

Prior Publication Data

Related U.S. Application Data
Continuation of application No. 13/663,878, filed on Oct. 30, 2012, and a continuation of application No. 13/663,887, filed on Oct. 30, 2012, now Pat. No. 8,824,978.

Int. Cl.
H04B 1/04 (2006.01)
H03F 1/02 (2006.01)

U.S. Cl.
CPC ............ H03G 3/3042 (2013.01); H04B 1/0483 (2013.01)

Field of Classification Search
CPC ............ H04B 1/04; H03F 1/04; H03F 1/02; H03F 3/68; H03F 1/025; H03F 3/60; H03F 3/20; H03F 3/21; H03F 1/0294; H03F 3/602; H03F 3/211; H03F 2203/21163


See application file for complete search history.

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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