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(54) **HYBRID DISTORTION SUPPRESSION SYSTEM AND METHOD**

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(57) **ABSTRACT**

A method for reducing distortions of a radio frequency (RF) system includes configuring a plurality of mixers to convert between a plurality of phase signals and a plurality of RF signals, configuring a first mixer of the plurality of mixers to operate in a six-phase operating mode to reduce the distortions of the RF system, and configuring a second mixer of the plurality of mixers to operate in a three-phase operating mode to reduce power consumption of the RF system.