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(54) **COMPENSATION CIRCUIT OF AMPLITUDE  
MODULATION-PHASE MODULATION,  
RADIO FREQUENCY POWER AMPLIFIER  
AND DEVICE**

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(57) **ABSTRACT**

An amplitude modulation-phase modulation compensation circuit includes a detection circuit, a reconfigurable current control voltage source circuit and a phase shifting circuit, in which, the detection circuit is configured to detect the power of an input signal and output a control current according to the power of the input signal when the power of the input signal is greater than a preset power threshold; the reconfigurable current control voltage source circuit is configured to generate a bias voltage according to the control current; the phase shifting circuit is configured to compensate the AM-PM distortion of the radio frequency power amplifier according to the bias voltage. In this way, by the compensation circuit, when the power of the input signal is greater than a preset power threshold, the AM-PM distortion of the radio frequency power amplifier can be compensated according to the power of the input signal.

