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Yamamoto et al.(10) **Pub. No.: US 2022/0368299 A1**(43) **Pub. Date: Nov. 17, 2022**(54) **GAIN STABILIZATION****H03F 3/19** (2006.01)**H03F 3/21** (2006.01)(71) Applicant: **Qualcomm Incorporated**, San Diego,
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(57)

ABSTRACT

An apparatus is disclosed for gain stabilization. In an example aspect, the apparatus includes an amplifier and a gain-stabilization circuit. The amplifier has a gain that is based on a bias voltage and an amplification control signal. The gain-stabilization circuit is coupled to the amplifier and includes a replica amplifier. The replica amplifier has a replica gain that is based on the bias voltage and the amplification control signal. The gain-stabilization circuit is configured to adjust at least one of the bias voltage or the amplification control signal based on a gain error associated with the replica amplifier.

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