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(54) **DIGITAL TRIMMING OF OP AMP OFFSET VOLTAGE AND QUIESCENT CURRENT USING NON-VOLATILE MEMORY**

(75) Inventors: **James B. Nolan**, Chandler; **Bonnie Baker**, Tucson, both of AZ (US)

(73) Assignee: **Microchip Technology Incorporated**, Chandler, AZ (US)

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(58) **Field of Search** 330/2, 9; 327/307

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Primary Examiner—Steven J. Mottola
(74) *Attorney, Agent, or Firm*—Swidler Berlin Shereff Friedman, LLP

(57) **ABSTRACT**

An operational amplifier is trimmed electrically using non-volatile fuses. The non-volatile fuses may be programmed electrically without destroying any passivation layers or other devices on the electronic component. In the case of an integrated circuit analog component, the trimming may be performed either at the wafer level or at the packaging level. The trimming may be performed specifically to adjust the quiescent current or offset voltage of the operational amplifier.

26 Claims, 9 Drawing Sheets

