

Title (en)

PROGRAMMABLE TEMPERATURE COEFFICIENT ANALOG SECOND-ORDER CURVATURE COMPENSATED VOLTAGE REFERENCE AND TRIM TECHNIQUES FOR VOLTAGE REFERENCE CIRCUITS

Title (de)

ANALOGUE KRÜMMUNGSKOMPENSIERTE SPANNUNGSREFERENZ ZWEITER ORDNUNG MIT PROGRAMMIERBAREM TEMPERATURKOEFFIZIENT UND TRIMMUNGSVERFAHREN FÜR SPANNUNGSREFERENZSCHALTUNGEN

Title (fr)

TECHNIQUES DE RÉFÉRENCE ET DE COMPENSATION DE TENSION À COMPENSATION DE COURBURE ANALOGIQUE DE SECOND ORDRE À COEFFICIENT DE TEMPÉRATURE PROGRAMMABLE POUR CIRCUITS DE RÉFÉRENCE DE TENSION

Publication

EP 3721314 A1 20201014 (EN)

Application

EP 18829584 A 20181204

Priority

- US 201715832515 A 20171205
- US 201715848357 A 20171220
- US 2018063911 W 20181204

Abstract (en)

[origin: WO2019113111A1] An example voltage reference circuit includes: a reference circuit (202) comprising a first circuit (308) configured to generate a proportional-to-temperature current and corresponding first control voltage and a second circuit (316) configured to generate a complementary-to-temperature current and corresponding second control voltage; a first current source (5141) coupled to a first load circuit (512), the first current source generating a sum current of the proportional-to-temperature current and the complementary-to-temperature current in response to the first and second control voltages, the first load circuit generating a zero temperature coefficient (Tempco) voltage from the sum current; and a second current source (7151) coupled to a second load circuit (718, 720), the second current source generating the sum current of the proportional-to-temperature current and the complementary-to-temperature current in response to the first and second control voltages, the second load circuit generating a negative Tempco voltage from the sum current and the complementary-to-temperature current.

IPC 8 full level

G05F 3/24 (2006.01); **G01K 7/01** (2006.01); **G05F 3/30** (2006.01)

CPC (source: EP KR)

G05F 3/245 (2013.01 - EP KR); **G05F 3/30** (2013.01 - EP KR)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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