

Title (en)

Temperature controller for the characteristics of an integrated circuit.

Title (de)

Temperaturregler für die Kennzeichen eines integrierten Schaltkreises.

Title (fr)

Dispositif de contrôle en température des caractéristiques d'un circuit intégré.

Publication

EP 0376787 B1 19940713 (FR)

Application

EP 89403487 A 19891214

Priority

FR 8817091 A 19881223

Abstract (en)

[origin: US4952865A] A circuit dedicated to the stabilization of integrated circuit temperature characteristics is achieved by integrating on the same semiconductor material chip as the integrated circuit and a device comprised of a sensor having at least two resistors (R1, R2 and/or R3, R4) supplied between two voltages (DC1, DC2) used alone or in conjunction with differential circuit structure (T2, T3) supplied by a current source (T1), comprising a transistorized variable load impedance (T4, T5, T6, T7). The resistors have different temperature coefficients, and the output voltage (VA or VB) of the bridge is temperature dependent. The integrated must incorporate a voltage-controlled element (transistor or diode).

IPC 1-7

G05F 3/08; **G05F 3/24**

IPC 8 full level

H01L 27/04 (2006.01); **G05D 23/24** (2006.01); **G05F 3/08** (2006.01); **G05F 3/24** (2006.01); **H01L 21/822** (2006.01)

CPC (source: EP US)

G05F 3/08 (2013.01 - EP US); **G05F 3/245** (2013.01 - EP US); **Y10S 323/907** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

DE GB GR IT NL

DOCDB simple family (publication)

EP 0376787 A1 19900704; **EP 0376787 B1 19940713**; DE 68916774 D1 19940818; DE 68916774 T2 19941110; FR 2641127 A1 19900629; FR 2641127 B1 19931224; JP H02264310 A 19901029; US 4952865 A 19900828

DOCDB simple family (application)

EP 89403487 A 19891214; DE 68916774 T 19891214; FR 8817091 A 19881223; JP 33620389 A 19891225; US 45386589 A 19891220