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Nolan et al.

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[54] **PRECISION RELAXATION OSCILLATOR INTEGRATED CIRCUIT WITH TEMPERATURE COMPENSATION**

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[58] **Field of Search** 331/111, 143, 331/176

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[57] **ABSTRACT**

A precision relaxation oscillator with temperature compensation produces a stable clock frequency over wide variations of ambient temperature. The invention has a oscillation generator and two independent current generators. The outputs of the two programmable, independent current generators are combined to provide a capacitor charging current which is independent of temperature. The precision relaxation oscillator with temperature compensation is implemented on a single, monolithic integrated circuit.

21 Claims, 5 Drawing Sheets

