

Title (en)

Circuit for self-regulating the oscillation frequency of an oscillating mechanical system and device including same

Title (de)

Schaltkreis zur Selbstregulierung der Schwingungsfrequenz eines schwingenden mechanischen Systems, und diesen umfassende Vorrichtung

Title (fr)

Circuit d'autorégulation de la fréquence d'oscillation d'un système mécanique oscillant, et dispositif le comprenant

Publication

**EP 2590035 B1 20201230 (FR)**

Application

**EP 11187360 A 20111101**

Priority

EP 11187360 A 20111101

Abstract (en)

[origin: EP2590035A1] The circuit (10) has a rectifier (11) for rectifying the alternating voltage (VP). An oscillator stage (15) provides a reference signal (VR). A comparison unit compares the frequency of the alternating voltage with the frequency of the reference signal. A frequency adjusting unit (18) is connected to the piezoelectric element or electro-active polymer (23) for providing a frequency adjustment signal (VA) to the piezoelectric element or polymer based on the result of the comparison by the comparison unit to regulate oscillation frequency of an oscillating mechanical system.

IPC 8 full level

**G04C 3/04** (2006.01); **G04C 3/06** (2006.01)

CPC (source: EP)

**G04C 3/04** (2013.01); **G04C 3/065** (2013.01)

Cited by

EP3540528A1; CN110275420A; EP3457223A1; EP3457224A1; US11415946B2; EP4194960A1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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