

Title (en)  
INTEGRATED, TUNABLE OSCILLATING CIRCUIT

Title (de)  
INTEGRIERTER ABSTIMMBARER SCHWINGKREIS

Title (fr)  
CIRCUIT OSCILLANT INTEGRE ACCORDABLE

Publication  
**EP 1987588 A1 20081105 (DE)**

Application  
**EP 07723857 A 20070331**

Priority  
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• DE 102006023352 A 20060517

Abstract (en)  
[origin: US2007268007A1] An integrated tunable resonance circuit is provided for providing a high-frequency output signal with a frequency dependent on a control signal, comprising a parallel resonance circuit with a first inductive element and an output for providing the high-frequency output signal, a switching unit with a controlled path, and a control terminal for switching between states, whereby the switching unit is designed to exhibit a predominantly capacitive behavior in a first state and a predominantly resistive behavior in a second state, whereby the resonance circuit is designed to drive the control terminal of the switching unit as a function of the control signal. According to the invention, the resonance circuit has a second inductive element which can be mutually coupled to the first inductive element, whereby the controlled path is connected parallel to the second inductive element. The invention relates furthermore to a voltage-controlled oscillator and to an integrated circuit.

IPC 8 full level  
**H03J 3/20** (2006.01)

CPC (source: EP US)  
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Designated contracting state (EPC)  
DE FR

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