

Title (en)  
AN ELECTRICALLY TUNABLE OSCILLATOR

Title (de)  
ELEKTRISCH ABSTIMMBARER OSZILLATOR

Title (fr)  
OSCILLATEUR ÉLECTRIQUEMENT RÉGLABLE

Publication  
**EP 2724415 A1 20140430 (EN)**

Application  
**EP 11727696 A 20110627**

Priority  
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Abstract (en)  
[origin: WO2013000496A1] The present invention relates to an oscillator device (1, 1") comprising an amplifier unit (2) and a waveguide cavity resonator (3, 3', 3"). The waveguide cavity resonator (3, 3') comprises a first tuning element (4, 4") arranged for mounting in the waveguide cavity resonator (3, 3', 3"). The waveguide cavity resonator (3, 3', 3") has a first cavity length (a, a") between two opposing inner walls (7, 8; 37, 38) of the waveguide cavity resonator (3, 3', 3"), where a resonance frequency (fr) of the waveguide cavity resonator (3, 3', 3") is dependent on the first cavity length (a, a"). The first tuning element (4, 4") is arranged for altering the first cavity length (a, a") between at least two values (aeff1, aeff2; aeff1", aeff2") such that the resonance frequency (fr) of the waveguide cavity resonator (3, 3', 3") is adjustable between at least two corresponding magnitudes.

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Citation (search report)  
See references of WO 2013000496A1

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