

Title (en)

METHOD FOR MAINTAINING AND ADJUSTING A CLOCK PIECE RESONATOR

Title (de)

WARTUNGS- UND REGULIERUNGSVERFAHREN EINES UHRENRESONATORS

Title (fr)

PROCEDE D'ENTRETIEN ET DE REGULATION D'UN RESONATEUR D'HORLOGERIE

Publication

**EP 3108305 B1 20180314 (FR)**

Application

**EP 15700569 A 20150114**

Priority

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- EP 2015050588 W 20150114

Abstract (en)

[origin: WO2015121014A1] Method for servicing and regulating the frequency of an horology resonator mechanism (1) about its natural frequency ( $\omega_0$ ), characterized in that use is made of at least one regulator device (2) acting on said resonator mechanism (1) with a periodic movement. Said periodic movement imposes a periodic modulation of the resonant frequency and/or of the Q factor/or of the position of the quiescent point of said resonator mechanism (1), with a regulating frequency ( $\omega_R$ ) that is comprised between 0.9 and 1.1 times the value of an integer multiple of said natural frequency ( $\omega_0$ ), said integer being greater than or equal to 2 and less than or equal to 10. Said periodic movement imposes a periodic modulation of the Q factor of said resonator mechanism (1) by acting on the losses and/or the damping and/or the friction of said resonator mechanism (1).

IPC 8 full level

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CPC (source: EP RU US)

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