

Title (en)

ATOMIC CLOCK REGULATED BY A STATIC FIELD AND TWO OSCILLATING FIELDS

Title (de)

ANHAND EINES STATISCHEN FELDES UND ZWEIER SCHWINGENDER FELDER GEREDELTE ATOMUHR

Title (fr)

HORLOGE ATOMIQUE REGLEE PAR UN CHAMP STATIQUE ET DEUX CHAMPS OSCILLANTS

Publication

EP 2220541 B1 20111102 (FR)

Application

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Priority

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Abstract (en)

[origin: WO2009074616A1] This atomic clock comprises means (8, 9, 10) for applying both a static magnetic field and two oscillating magnetic fields, all mutually perpendicular, in a magnetic shield (11). The amplitudes and frequencies of the oscillating magnetic fields may be chosen so as to annihilate the energy variations between sub-transition levels of the excited atoms and to reinforce the clock output signal, and with low sensitivity to defects in regulation.

IPC 8 full level

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