

Title (en)
Atomic clock operated with Helium-3

Title (de)
Mit Helium-3 angetriebene Atomuhr

Title (fr)
Horloge atomique fonctionnant à l'hélium 3

Publication
EP 2261758 B1 20111207 (FR)

Application
EP 10165184 A 20100608

Priority
FR 0953901 A 20090611

Abstract (en)
[origin: EP2261758A1] The clock has a cell (1) filled with a measuring medium, and an exciter (2) i.e. laser diode, for exciting particles of the medium until a higher energy level. A photodetector (4) collects frequency of light energy reproduced by the medium, and transmits a signal to a counting device (5). An application device (9) applies static magnetic field parallel to a laser beam. A control unit (8) controls the application device to adjust the magnetic field. The medium includes helium-3 plasma. Another exciter (10) provokes the helium-3 plasma from gaseous helium-3.

IPC 8 full level
G04F 5/14 (2006.01)

CPC (source: EP US)
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Cited by
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