

Title (en)

REMOTE COMMUNICATION METHOD AND DEVICE USING NUCLEAR ISOMERS

Title (de)

NUKLEARISOMERE VERWENDENDES FERNKOMMUNIKATIONSVERFAHREN UND -GERÄT

Title (fr)

PROCEDE ET APPAREILLAGE POUR COMMUNIQUER A DISTANCE EN UTILISANT DES NUCLEIDES ISOMERES.

Publication

EP 1743344 B1 20091223 (FR)

Application

EP 05733600 A 20050328

Priority

- EP 2005051405 W 20050328
- FR 0403904 A 20040413

Abstract (en)

[origin: WO2005112041A2] The invention relates to a method and device which are intended for remote control and communication using nuclear isomers. Several samples of nuclides that can have a metastable state are irradiated together and simultaneously with cascade gamma-rays emitted from a radioactive source or a particle accelerator. According to quantum mechanics, the gamma-rays produced are entangled, and said entanglement is transferred to the nuclear isomers. When the samples are separated and one of said samples, namely the master , is stimulated using a standard gamma- or X-ray irradiation method, the other samples, namely the slaves , are also deexcited. There is no known method for interference between the masters and slaves. Only the slave(s) can receive the signal instantly from the master through any medium and over any distance. The method and device are particularly suitable for communication and control applications.

IPC 8 full level

G21K 1/00 (2006.01); **G21K 5/04** (2006.01)

CPC (source: EP US)

G21K 1/00 (2013.01 - EP US); **G21K 5/04** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2868868 A1 20051014; AT E453197 T1 20100115; DE 602005018472 D1 20100204; EP 1743344 A2 20070117; EP 1743344 B1 20091223; US 2008317207 A1 20081225; WO 2005112041 A2 20051124; WO 2005112041 A3 20060105; WO 2005112041 B1 20060601

DOCDB simple family (application)

FR 0403904 A 20040413; AT 05733600 T 20050328; DE 602005018472 T 20050328; EP 05733600 A 20050328; EP 2005051405 W 20050328; US 59986805 A 20050328