

Title (en)

METHOD AND DEVICE FOR DETECTING THE PRESENCE, IN A LOAD, OF OBJECTS SUSPECTED OF CONTAINING AT LEAST ONE MATERIAL HAVING A GIVEN ATOMIC WEIGHT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERFASSUNG VON OBJEKTEN IN EINER LADUNG MIT VERDACHT AUF MINDESTENS EIN MATERIAL MIT EINEM BESTIMMTEN ATOMGEWICHT

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR DÉTECTER LA PRÉSENCE, DANS UNE CHARGE, D'OBJETS SUSPECTS RENFERMANT AU MOINS UN MATÉRIAU À POIDS ATOMIQUE DONNÉ

Publication

EP 2297597 A2 20110323 (FR)

Application

EP 09772762 A 20090706

Priority

- FR 2009051336 W 20090706
- FR 0854551 A 20080704

Abstract (en)

[origin: WO2010001080A2] Method for detecting, in a load (2), the presence of objects suspected of containing at least one material having a given atomic weight, in which the load (2) is exposed to at least a first X-ray beam having a first spectrum and an atomic number class to which the materials, comprising the load through which the X-rays pass, is determined by high-energy discrimination. Furthermore, at least one g-ray or neutron beam spontaneously emitted by the load is measured, a spontaneous g and/or neutron radiation emission class of the material comprising the load is determined from the spontaneous radiation measurement, and a class of interest of the material of the load is determined from the atomic number class and the spontaneous radiation class that were determined.

IPC 8 full level

G01V 5/00 (2006.01)

CPC (source: EP US)

G01V 5/224 (2024.01 - EP US); **G01V 5/281** (2024.01 - EP US)

Citation (examination)

- EP 2287636 A1 20110223 - UNIV TSINGHUA [CN], et al
- JONES, JL ET AL: "Photofission-based, NuclearMaterial Detection:Technology Demonstration", 1 December 2002 (2002-12-01), Retrieved from the Internet <URL:http://www.inl.gov/technicalpublications/Documents/2699808.pdf> [retrieved on 20141222]
- See also references of WO 2010001080A2

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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