

Title (en)

METHOD AND APPARATUS FOR DETECTION OF A PARTICULAR MATERIAL IN AN OBJECT BY MEANS OF ELECTROMAGNETIC RADIATION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DETEKTION EINES BESTIMMTEN MATERIALS IN EINEM OBJEKT MITTELS ELEKTROMAGNETISCHER STRAHLEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LA DÉTECTION D'UN CERTAIN MATÉRIAU DANS UN OBJET À L'AIDE DE RAYONS ÉLECTROMAGNÉTIQUES

Publication

EP 2265938 A1 20101229 (DE)

Application

EP 09733361 A 20090408

Priority

- EP 2009002603 W 20090408
- DE 102008019754 A 20080418

Abstract (en)

[origin: WO2009127353A1] A method is described for detection of a particular material in an object (1), in particular in an item of luggage, by means of electromagnetic radiation in which the intensities of non-absorbed radiation from at least three radiation planes are measured and evaluated in associated detector apparatus, wherein an image is produced, initially from the intensities of the non-absorbed radiation, and then if single regions (E) of low complexity are found which are characterized by approximately constant intensities, an estimation of the attenuation coefficient μ is performed and a material detection is carried out in the region (E) according to an algorithm which calculates a three-dimensional reconstruction from different views.

IPC 8 full level

G01N 23/08 (2006.01); **G01V 5/00** (2006.01)

CPC (source: EP US)

G01N 23/083 (2013.01 - EP US); **G01N 23/087** (2013.01 - US); **G01V 5/22** (2024.01 - US); **G01V 5/228** (2024.01 - EP US); **G01N 2223/401** (2013.01 - US); **G01N 2223/633** (2013.01 - US); **G01N 2223/639** (2013.01 - US)

Citation (search report)

See references of WO 2009127353A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

WO 2009127353 A1 20091022; CA 2725217 A1 20091022; EP 2265938 A1 20101229; US 2011091013 A1 20110421; US 9128200 B2 20150908

DOCDB simple family (application)

EP 2009002603 W 20090408; CA 2725217 A 20090408; EP 09733361 A 20090408; US 90643710 A 20101018