

Title (en)

INSPECTION SYSTEM AND SPATIAL RESOLUTION TECHNIQUE FOR DETECTING EXPLOSIVES USING COMBINED NEUTRON INTERROGATION AND X-RAY IMAGING

Title (de)

INSPEKTIONSSYSTEM UND TECHNIK RÄUMLICHER AUFLÖSUNG ZUM NACHWEIS VON SPRENGSTOFFEN UNTER VERWENDUNG VON NEUTRONENNACHWEIS UND RÖNTGENBILDGEBUNG

Title (fr)

SYSTEME D'INSPECTION ET TECHNIQUE DE RESOLUTION SPATIALE POUR LA DETECTION D'EXPLOSIFS PAR INTERROGATION NEUTRONIQUE ET IMAGERIE PAR RAYONS X

Publication

EP 0792509 A1 19970903 (EN)

Application

EP 95936230 A 19951023

Priority

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Abstract (en)

[origin: WO9613839A1] X-ray CT (computed tomography) and neutron interrogation (NI) are combined to provide an inspection system (100) and spatial resolution technique for detecting explosives. X-ray CT (510) is used to derive a physical density map of a bag (B). The density map from X-ray CT (510) and data from neutron interrogation (520) is used to generate three-dimensional maps of the chemical make-up of the bag (B) contents. Information from the X-ray CT procedure is also used to focus the neutron interrogation on particularly suspect regions of interest in the bag (B).

IPC 1-7

G21G 1/06

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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