

Title (en)

X-RAY INSPECTION SYSTEM AND METHOD

Title (de)

RÖNTGENSTRAHLPRÜFUNGSSYSTEM UND -VERFAHREN

Title (fr)

SYSTÈME ET PROCÉDÉ D'INSPECTION PAR RAYONS X

Publication

EP 2678668 A1 20140101 (EN)

Application

EP 11859314 A 20110222

Priority

US 2011025777 W 20110222

Abstract (en)

[origin: WO2012115629A1] The present specification discloses an X-ray system for processing X-ray data to determine an identity of an object under inspection. The X-ray system includes an X-ray source for transmitting X-rays, where the X-rays have a range of energies, through the object, a detector array for detecting the transmitted X-rays, where each detector outputs a signal proportional to an amount of energy deposited at the detector by a detected X-ray, and at least one processor that reconstructs an image from the signal, where each pixel within the image represents an associated mass attenuation coefficient of the object under inspection at a specific point in space and for a specific energy level, fits each of pixel to a function to determine the mass attenuation coefficient of the object under inspection at the point in space; and uses the function to determine the identity of the object under inspection.

IPC 8 full level

G01N 23/087 (2006.01)

CPC (source: EP GB)

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Cited by

US10901112B2; US11796711B2; US10976271B2

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DOCDB simple family (publication)

WO 2012115629 A1 20120830; EP 2678668 A1 20140101; EP 2678668 A4 20170405; GB 201315125 D0 20131009; GB 2501661 A 20131030; GB 2501661 B 20170412

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