

Title (en)

METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR MULTIPLEXING COMPUTED TOMOGRAPHY

Title (de)

VERFAHREN, SYSTEME UND COMPUTERPROGRAMMPRODUKTE FÜR DIE RECHNERGESTÜTZTE MULTIPLEX-TOMOGRAPHIE

Title (fr)

METHODES, SYSTEMES, ET PROGRAMMES INFORMATIQUES DE TOMODENSITOMETRIE MULTIPLEXEE

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Application

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Abstract (en)

[origin: WO2007038306A2] Methods, systems, and computer program products for multiplexing computed tomography are disclosed. According to one aspect, the subject matter described herein can include illuminating an object with a plurality of x-ray beams from a plurality of viewing angles, wherein each x-ray beam has a distinct waveform; detecting the x-ray intensities of the plurality of pulsed x-ray beams as a function of time, and extracting individual projection image data from the detected x-ray intensities based on the distinct waveforms of the x-ray beams for combining the projection image data to generate three-dimensional tomographic image data of the object.

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Citation (search report)

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- [A] US 2004240616 A1 20041202 - QIU QI [US], et al
- [XP] ZHANG J ET AL: "Multiplexing radiography using a carbon nanotube based x-ray source", APPLIED PHYSICS LETTERS, AIP, AMERICAN INSTITUTE OF PHYSICS, MELVILLE, NY, US, vol. 89, no. 6, 9 August 2006 (2006-08-09), pages 64106 - 064106, XP012088449, ISSN: 0003-6951, DOI: 10.1063/1.2234744
- See references of WO 2007038306A2

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