

Title (en)

TOMOGRAPHIC DEVICE AND METHOD WITH TRANSLATIONAL MOVEMENT BETWEEN OBJECT AND DETECTOR

Title (de)

VORRICHTUNG UND VERFAHREN ZUR TOMOGRAPHIE MIT TRANSLATIONSBEWEGUNG ZWISCHEN OBJEKT UND DETEKTOR

Title (fr)

TOMOGRAPHIE D'EMISSION MONOPHOTONIQUE

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Application

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Abstract (en)

[origin: WO2005040635A2] The invention relates to a device for carrying out a tomographic method, in particular for carrying out single-photon tomography, with at least one multi-hole collimator and at least one detector, for recording photons which pass through the multi-hole collimator. The above is characterised in comprising means which permit a relative translational movement between an object under investigation and the detector(s) with a positional accuracy of less than 1 millimetre. The relative positional change between object and detector(s) during the execution of the method is taken into account in the subsequent reconstruction method to an accuracy of less than 1 mm, in particular, less than 0.1 mm. A reconstruction method is used for the above which takes into account the positional and angular information between object and detector. Said method may be controlled by and carried out on a current PC.

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