

Title (en)

ASYMMETRIC AXIAL FILTER FOR PET IMAGING SYSTEMS

Title (de)

ASYMMETRISCHES AXIALFILTER FÜR PET-BILDGEBUNGSSYSTEME

Title (fr)

FILTRE AXIAL ASYMETRIQUE POUR SYSTEMES D'IMAGERIE TEP

Publication

EP 1709463 A1 20061011 (EN)

Application

EP 05702588 A 20050105

Priority

- IB 2005050058 W 20050105
- US 53668304 P 20040115

Abstract (en)

[origin: WO2005071439A1] A radiographic imaging system (10) includes an array of detectors (16) for detecting emission radiation emitted from a subject (14). The detectors (16) are arranged around a circular bore (18), defining a field of view of the imaging system (10). End shields (40) are disposed at an entrance and at an exit of the axial field-of-view (18) defining a subject receiving aperture (46). One or more septa (50), partially covering the circumference, shields the detectors (16) from the radiation originating outside of the axial field-of-view (18) as well as the body scattered radiation. Septa (50) are spread out sparsely across the field of view such that a ratio of the area shielded by the septa (50) to the field of view is negligible. The patient aperture (46) is increased without compromising the 3D imaging.

IPC 8 full level

G01T 1/29 (2006.01)

CPC (source: EP)

A61B 6/037 (2013.01); **G01T 1/1615** (2013.01); **G01T 1/2985** (2013.01)

Citation (search report)

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