

Title (en)

SOLID-STATE X-RAY DETECTOR

Title (de)

FESTKÖRPER-RÖNTGENSTRAHLUNGSDETEKTOR MIT SZINTILLATOR

Title (fr)

DETECTEUR DE RAYONNEMENT X A L'ETAT SOLIDE COMPORTANT UN SCINTILLATEUR

Publication

EP 1438606 A1 20040721 (FR)

Application

EP 02790545 A 20021025

Priority

- FR 0203681 W 20021025
- FR 0113899 A 20011026

Abstract (en)

[origin: WO03036329A1] The invention concerns a solid-state x-ray detector comprising a photosensitive sensor associated with a radiation converter called scintillator (5), transforming the X-radiation into a radiation to which the sensor (1) is responsive, and an input window (10) traversed by the X-radiation upstream of the scintillator (5). The input window (10) is set on the scintillator (5) without being fixed to the scintillator (5), and a moisture-proof sealing joint (11) fixes the input window (10) and the sensor (1). The scintillator (5) comprises a support (8) and a scintillating substance (7). The support (8) is separate from the sensor (1). Such type of detector is useful in particular in radiology, radiography, fluoroscopy, mammography, but also for non-destructive control.

IPC 1-7

G01T 1/20; **G01T 1/00**

IPC 8 full level

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CPC (source: EP US)

G01T 1/20 (2013.01 - EP US); **G01T 1/2002** (2013.01 - EP US); **H01L 27/14618** (2013.01 - EP US); **H01L 27/14658** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

C-Set (source: EP US)

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Citation (search report)

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DOCDB simple family (publication)

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