

Title (en)

PLASMA PANEL BASED IONIZING-PHOTON RADIATION DETECTOR

Title (de)

DETEKTOR FÜR IONISIERENDE PHOTONENSTRAHLUNG AUF DER BASIS EINER PLASMATAFEL

Title (fr)

DETECTEUR DE RAYONNEMENTS PHOTONIQUES IONISANTS BASE SUR UN ECRAN A PLASMA

Publication

**EP 1891464 A4 20130213 (EN)**

Application

**EP 06836050 A 20060331**

Priority

- US 2006012775 W 20060331
- US 15353505 A 20050616

Abstract (en)

[origin: WO2007044068A2] A plasma panel based ionizing-photon radiation detector includes an input and output substrate with gamma-ray to free-electron conversion occurring primarily on the input plate and a sealed discharge gas between the substrates. X-electrodes and Y-electrodes are formed on the two substrates and configured to form a plurality of pixels. Impedances are coupled to the X and Y electrodes and a power supply is coupled to the X-electrodes. Discharge event detectors coupled to impedances detect discharge events on the Y electrodes and at the pixel locations, which leads to the detection of ionizing-photon radiation.

IPC 8 full level

**G01T 1/185** (2006.01)

CPC (source: EP)

**G01T 1/18** (2013.01); **G01T 1/2935** (2013.01)

Citation (search report)

- [XY] US 6011265 A 20000104 - SAULI FABIO [CH]
- [Y] EP 0887752 A2 19981230 - JAPAN SCIENCE & TECH CORP [JP]
- See references of WO 2007044068A2

Citation (examination)

EP 1274115 A2 20030108 - CRUICKSHANK GARTH [GB]

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2007044068 A2 20070419; WO 2007044068 A3 20080110**; EP 1891464 A2 20080227; EP 1891464 A4 20130213; JP 2008544249 A 20081204; JP 5023058 B2 20120912

DOCDB simple family (application)

**US 2006012775 W 20060331**; EP 06836050 A 20060331; JP 2008516866 A 20060331