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GAMMA RAY DETECTION WITH ENCODING THE ENERGY, POSITION, AND TIME COORDINATES OF THE INTER-
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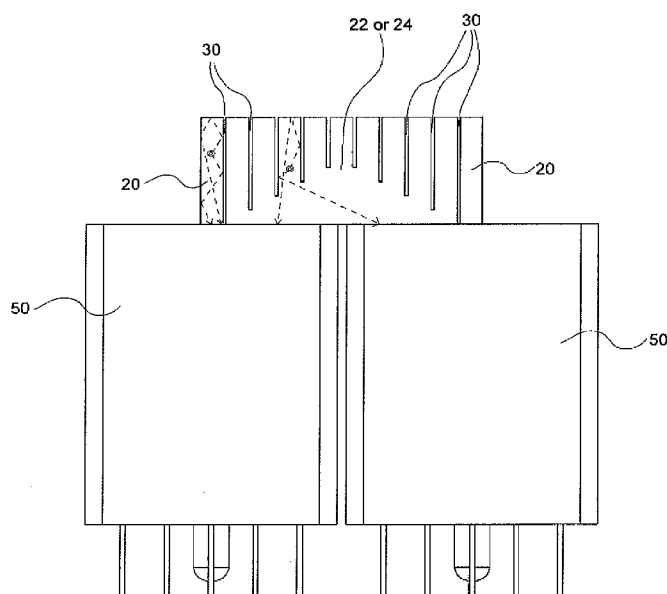


FIG. 2

(57) Abstract: A gamma ray detector module includes at least one scintillation detector configured to operate in a dot-decoding mode, or at least two scintillation detectors configured to operate in a line-decoding mode, wherein the at least one scintillation detector is each coupled to a single photodetector, and wherein the at least two scintillation detectors are coupled to at least two photodetectors arranged substantially along a line; and at least four scintillation detectors configured to operate in a plane-decoding mode, wherein the at least four scintillation detectors are coupled to a plurality of photodetectors arranged in a two-dimensional array.

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A. CLASSIFICATION OF SUBJECT MATTER**G01T 1/20(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC G01T 1/20, 1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS (KIPO internal), NDSL

keywords: "gamma ray" "tomography", "scintillator" and similar terms.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,114,703 A (LEVIN, CRAIG S. & HOFFMAN, EDWARD J.) 5 September 2000 see column 6, line 9 ~ column 7, line 25; Figures 1, 2 and 5	1-6
Y	Moses, William W. et al., "PET Detector Modules Based on Novel Detector Technologies", Nuclear Instruments and Methods A, 1994, Vol. 353, pp. 189-194	1-6
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A	Tornai, Martin P. et al., "Discrete Scintillator Coupled Mercuric Iodide Photodetector Arrays for Breast Imaging", IEEE Transactions on Nuclear Science, June 1997, Vol. 44, No.3, pp. 1127-1133	1-6
A	US 5,349,191 A (ROGERS, JOEL G.) 20 September 1994 see the whole document	1-6



Further documents are listed in the continuation of Box C.



See patent family annex.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US 2004/0200966 A1 (RAMSDEN, DAVID) 14 October 2004 see the whole document	1-6
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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