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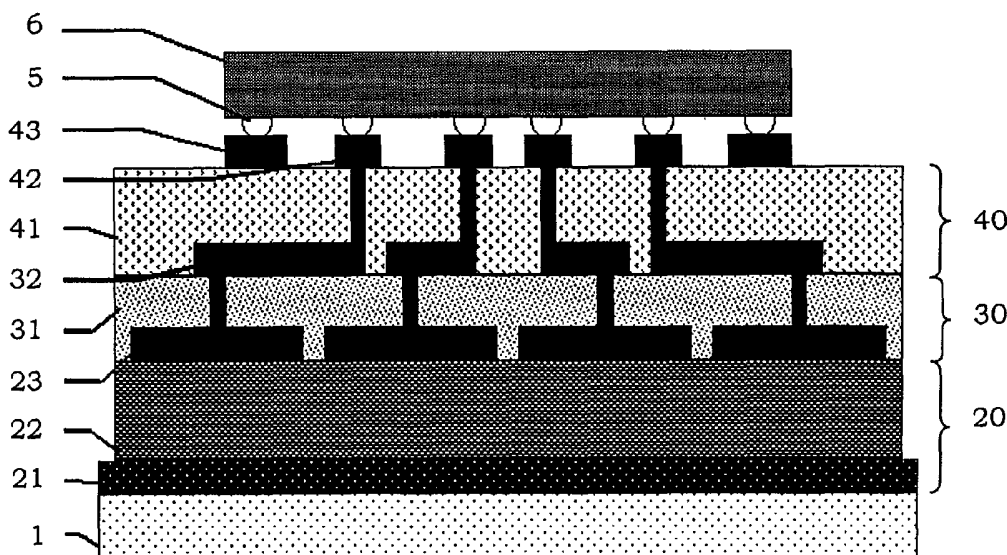
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- (71) Applicant (for AT, BE, BG, CH, CN, CY, CZ, DK, EE, ES, FI, FR, GB, GR, IE, IT, JP, LU, MC, NL, PT, SE, SK, TR only): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
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(54) Title: SENSOR ARRANGEMENT CONSISTING OF LIGHT-SENSITIVE AND/OR X-RAY SENSITIVE SENSORS



(57) Abstract: The invention relates to a large-area sensor arrangement, notably a flat dynamic X-ray detector (FDXD). The light-sensitive and/or X-ray-sensitive sensors (pixels) of the sensor arrangement are arranged in a planar distribution on a substrate (1), thus forming a sensitive layer (20). On the top surface of the layer (20) there is provided a contact point (23) for each sensor, which contact point is connected to an integrated circuit (6) via one or more connection layers (30, 40). A multi-layer, very compact construction is thus obtained in which the electronic evaluation circuitry (6) is arranged in a planar fashion and parallel to the sensors (20). Preferably, a respective evaluation circuit in the circuit (6) is associated with each sensor, resulting in very short paths and also in a reduction of noise.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H01L27/146 H01L31/0248

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 7 H01L

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

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
 PAJ, WPI Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 5 726 500 A (BOIS PHILIPPE ET AL) 10 March 1998 (1998-03-10)	1-6,9-11
Y	column 3, line 1 - line 27; figures 4,5 column 5, line 1 - line 67 ---	7,8
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X	EP 0 853 427 A (SIMAGE OY) 15 July 1998 (1998-07-15) page 14, line 48 - line 52; figure 10 page 15, line 17 - line 23 page 15, line 43 - line 56 --- -/--	1-3,9-11

Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

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Date of the actual completion of the international search 28 February 2003	Date of mailing of the international search report 12/03/2003
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Agne, M
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International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08, 30 June 1999 (1999-06-30) & JP 11 087682 A (NIKON CORP), 30 March 1999 (1999-03-30) abstract ---	1-3,9-11
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