

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 September 2004 (16.09.2004)

PCT

(10) International Publication Number
WO 2004/080130 A3

(51) International Patent Classification⁷: **G01N 23/02**,
A61B 6/00

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(21) International Application Number:
PCT/SE2004/000278

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(22) International Filing Date: 2 March 2004 (02.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0300589-9 6 March 2003 (06.03.2003) SE

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

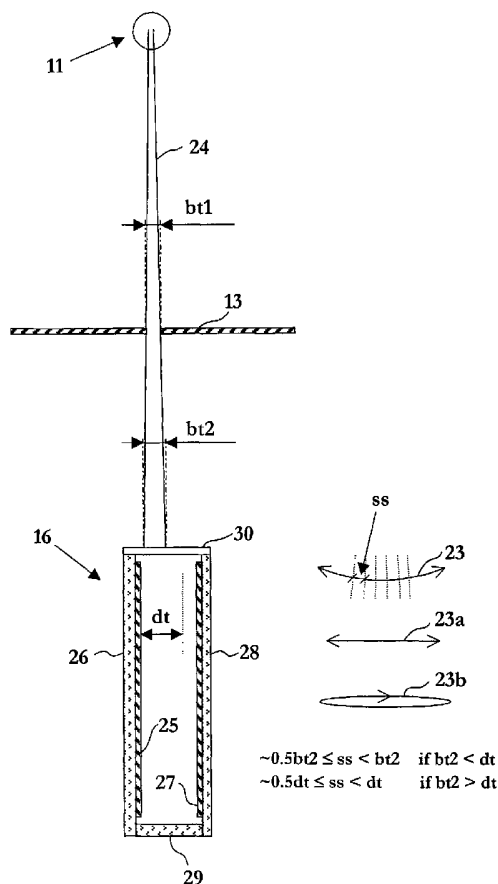
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(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: SCANNING-BASED DETECTION OF IONIZING RADIATION



(57) Abstract: A scanning-based radiation detector apparatus for recording an image of an object comprises a 1D detector unit (41) exposed to a fan-shaped ionizing radiation beam, after having interacted with the object; a device (87-89, 91) for moving the 1D detector unit (41) and the fan-shaped beam relative the object while repeatedly detecting to thereby create a 2D image of the object; and a control device for controlling the repeated detections. The one-dimensional detector unit (41) has an ionizing radiation sensitive thickness (dt), which is larger than the thickness of the fan-shaped beam when impinging on the one-dimensional detector unit. To obtain a short exposure time of each 1D image, but still a high spatial resolution in the 2D image, a 1D image of the fan-shaped beam is recorded every n'th length unit of the movement, where n is not lower than essentially half the thickness of the fan-shaped beam in that length unit, but lower than the ionizing radiation sensitive thickness (dt) of the 1D detector unit (41) in that length unit.



Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
11 November 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000278

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G01N 23/02, A61B 6/00

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)

IPC7: G01N, A61B

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

SE,DK,FI,NO classes as above

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

EPO-INTERNAL, WPI, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0046609 A1 (N.V. PHILIPS'GLOEILAMPENFABRIEKEN), 3 March 1982 (03.03.1982), abstract --	1-19
A	US 5650626 A (D.P. TRAUERNICHT ET AL), 22 July 1997 (22.07.1997), abstract -- -----	1-19



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Date of the actual completion of the international search

19 August 2004

Date of mailing of the international search report

09-09-2004

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Swedish Patent Office

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INTERNATIONAL SEARCH REPORT

Information on patent family members

03/07/2004

International application No.

PCT/SE 2004/000278

EP	0046609	A1	03/03/1982	BR	8105272	A	27/04/1982
				CA	1165904	A	17/04/1984
				DE	3167308	D	00/00/0000
				IL	63603	A	31/05/1984
				JP	4078940	B	14/12/1992
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				NL	8004727	A	16/03/1982

US	5650626	A	22/07/1997	NONE			
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