(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
10 October 2002 (10.10.2002)

PCT

(10) International Publication Number
WO 2002/080100 A3

(51) International Patent Classification[7]: G06T 5/20, 11/00

(21) International Application Number:
PCT/IB2002/000593

(22) International Filing Date: 25 February 2002 (25.02.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
01201180.5 29 March 2001 (29.03.2001) EP

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(81) Designated State (national): JP.

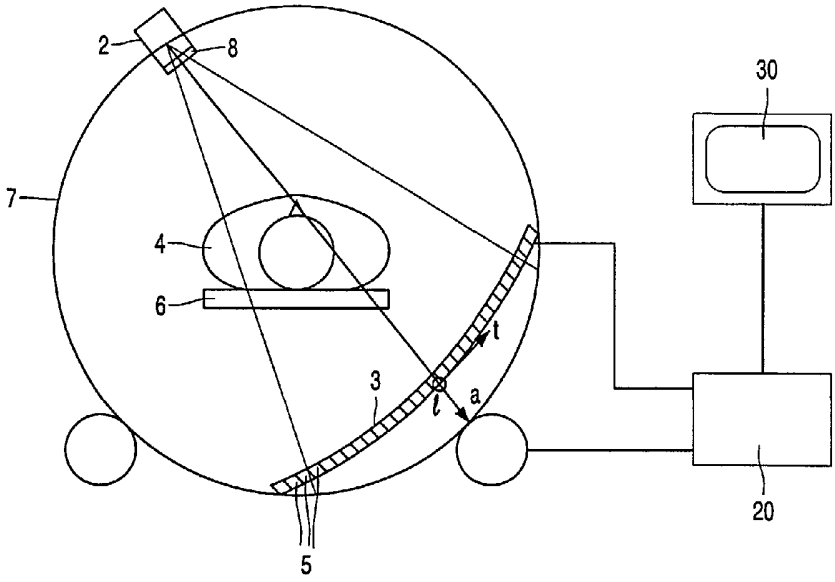
(84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

Published:
— with international search report

(88) Date of publication of the international search report:
29 April 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.

(54) Title: A METHOD OF REDUCING ARTIFACTS IN OBJECT IMAGES



(57) Abstract: The invention concerns a method of reducing artifacts in object images acquired by means of measurement signals sent by a source through the object onto a detector, which method comprises the steps of: a) adaptively filtering the data signals received by the detector in dependence of the data value; b) processing the data signals to indicate the attenuation of the measurement signals passing through the object; and c) reconstructing an image of the object based on the filtered and processed data signals. The method according to the invention is characterized in that step b) is performed on the adaptively filtered data signals resulting from step a). The invention also refers to a computed tomography device that comprises a processing unit for carrying out the method according the invention and to a computer program for carrying out said method.

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INTERNATIONAL SEARCH REPORT

ational Application No
PCT/IB 02/00593

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06T5/20 G06T11/00

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)
IPC 7 G06T

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)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HSIEH J: "ADAPTIVE STREAK ARTIFACT REDUCTION IN COMPUTED TOMOGRAPHY RESULTINGFROM EXCESSIVE X-RAY PHOTON NOISE" MEDICAL PHYSICS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 25, no. 11, November 1998 (1998-11), pages 2139-2147, XP000865065 ISSN: 0094-2405	1-10
X	abstract	1
X	section III., "Adaptive filtering approach", p. 2142	2,3
X	page 2143, line 5 - line 10	5-7

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
30 April 2003	09/05/2003

Name and mailing address of the ISA	Authorized officer
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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.
X	DE 198 53 143 A (VAMP VERFAHREN UND APPARATE DE) 17 June 1999 (1999-06-17) page 2, line 63 -page 3, line 57; claims 2-5	1-3,5-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

ıational Application No
PCT/IB 02/00593

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 19853143 A	17-06-1999	DE 19853143 A1	17-06-1999