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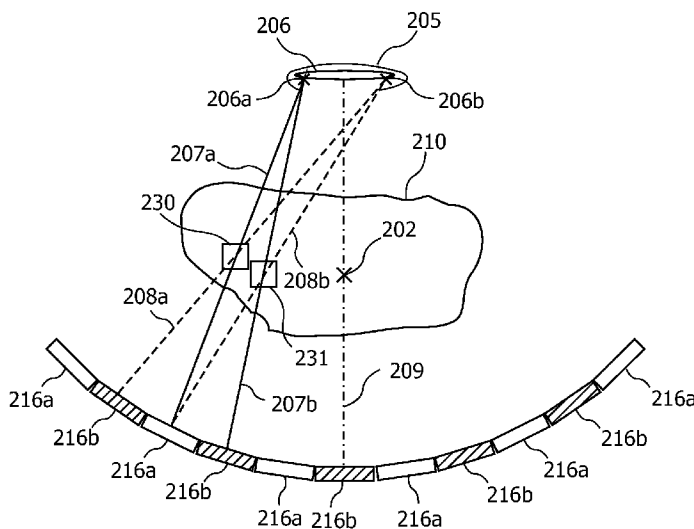
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(54) Title: EFFECTIVE DUAL-ENERGY X-RAY ATTENUATION MEASUREMENT



(57) Abstract: It is described a method and a CT system for measuring dual-energy X- ray attenuation data of an object. The CT system comprises a rotatable holder, an X-ray source comprising two different X-ray focus points, and an X-ray detection device comprising a plurality of detector elements exhibiting different spectral sensitivities. The method comprises the steps of (a) adjusting the X-ray source such that it emits X-rays originating a first focus point, (b) acquiring first attenuation data separately with first detector elements and with second detector elements, (c) moving the X-ray focus discretely to a second focus point, and (d) acquiring second attenuation data separately with both types of detector elements. Thereby the two focus points are spatially separated from each such that a first beam path originating from the first focus point penetrates a certain voxel within the object and impinges on a first detector element and a second beam path originating from the second X-ray focus point penetrates the same voxel and impinges on a second detector element.

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## B. FIELDS SEARCHED

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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)

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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 231 037 A (PHILIPS NV [NL]) 5 August 1987 (1987-08-05) cited in the application column 2, line 47 - column 3, line 32; claims; figures	1,8, 16-18
A	DE 34 26 934 A1 (ELSCINT LTD [IL]) 23 May 1985 (1985-05-23) page 28, paragraph 4 - page 30, paragraph 3; figures	1,8, 16-18
A	EP 0 365 084 A (PHILIPS NV [NL]) 25 April 1990 (1990-04-25) column 2, line 18 - column 3, line 11; figures	1,8, 16-18

 Further documents are listed in the continuation of Box C. See patent family annex.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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