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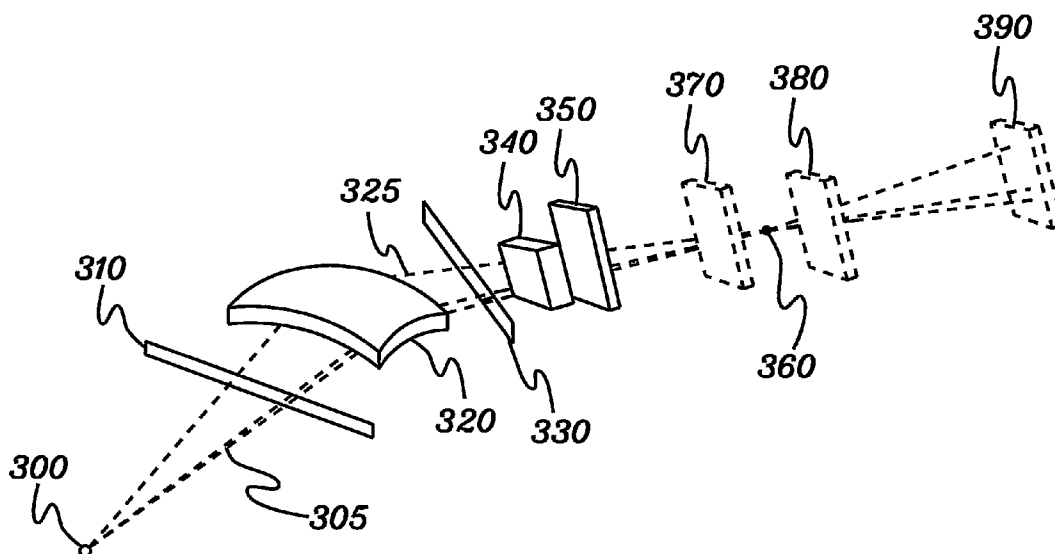
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(54) Title: X-RAY IMAGING SYSTEMS EMPLOYING POINT-FOCUSING, CURVED MONOCHROMATING OPTICS



(57) Abstract: An x-ray imaging system includes an optical device having at least one point-focusing, curved monochromating optic 320 for directing x-rays from an x-ray source 300 towards a focal point 360. The at least one point-focusing, curved monochromating optic provides a focused monochromatic x-ray beam directed towards the focal point, and a detector 350 is aligned with the focused monochromatic x-ray beam. The optical device facilitates x-ray imaging of an object 340 when the object is located between the optical device and the detector within the focused monochromatic x-ray beam. In various embodiments: each point-focusing, curved monochromating optic has an optical surface that is doubly-curved; the optical device facilitates passive image demagnification or magnification depending upon placement of the object and detector relative to the focal point; and at least one second point-focusing, curved monochromating optic can be employed to facilitate refractive index or polarized beam imaging of the object.

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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.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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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)
G21K

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, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ALIANELLI L ET AL: "Optical configurations for X-ray imaging by projection" JOURNAL DE PHYSIQUE IV (PROCEEDINGS) EDP SCIENCES FRANCE, vol. 104, March 2003 (2003-03), pages 267-270, XP001248723 ISSN: 1155-4339	1-3,5,7, 12,24
Y	page 267, lines 1-3 page 268, lines 5,6,14,15 page 270, lines 2,3,6,7,11,12	13
X	EP 0 459 833 A2 (CANON KK [JP]) 4 December 1991 (1991-12-04) figure 4	1-4

☒ 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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