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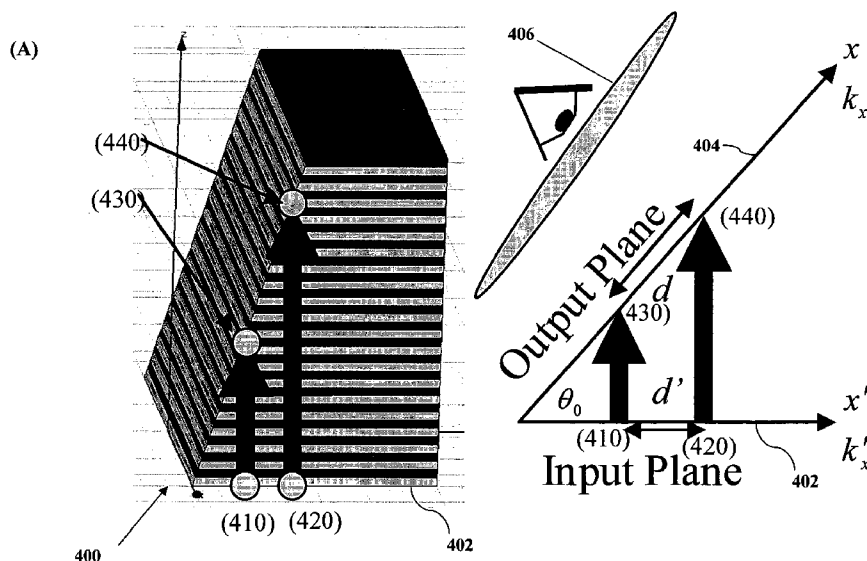
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[Continued on next page]

(54) Title: FAR-FIELD SUB-DIFFRACTION OPTICAL LENSES (FASDOL)

Figure 4



(57) Abstract: Far-field sub-diffraction optical lenses "FaSDOLs" comprise an anisotropic crystal having special dispersion characteristics such that it supports diffraction free propagation. An image with subwavelength features on the input surface is transferred through a propagation function to the output surface with effectively no, or minimal, loss in information. These special properties may be exploited in several ways, including but not limited to, magnification of an image at the input surface through the use an oblique cut at the output surface, magnification of an image at the input surface through use of a curved crystalline structure, and more generally near-field optical processing.



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PCT/US07/11685

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G02B 5/18(2006.01)

USPC: 359/576

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)

U.S. : 359/576,558,642

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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,392,792 B1 (NAULLEAU) 21 May 2002 (21.05.2002), whole document.	1-55

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Date of the actual completion of the international search

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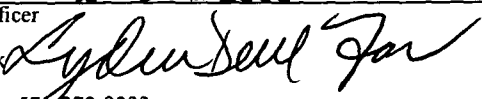
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