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GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
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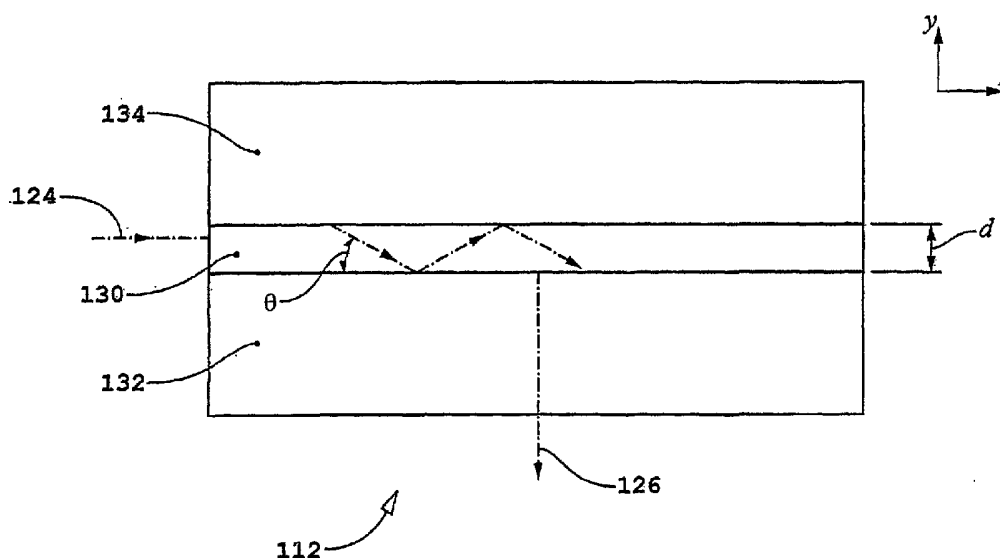
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(54) Title: MULTIPLE-SOURCE ARRAYS FED BY GUIDED-WAVE STRUCTURES AND RESONANT GUIDED-WAVE
STRUCTURE CAVITIES



(57) Abstract: A multiple source array including a guided-wave structure having a dielectric core and a cladding covering the di-
electric core; and an array of dielectric-filled, guided-wave cavities in the cladding extending transversely from the dielectric core
and forming an array of apertures through which optical energy that is introduced into the core exits from the core.



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

International application No.

PCT/US04/03377

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G02B 6/26

US CL : 385/39,129

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. : 385/39,129,28,37,130-133,902; 356/477,482,901,902

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONEElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,597,721 B1 (HUTCHINSON et al.) 22 July 2003 (22.07.2003), see entire document.	1,2,5,6,8,11-14,23,26,27
A	US 2003/0174992 A1 (LEVENE et al.) 18 September 2003 (18.09.2003), see entire document.	1-34
A	US 6,552,805 B2 (HILL) 22 April 2003 (22.04.2003), see entire document.	1-34
A	US 5,633,972 A (WALT et al.) 27 May 1997 (27.05.1997), see entire document.	1-34



Further documents are listed in the continuation of Box C.



See patent family annex.

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

USPAT, USPGPUB, EPO, JPO, DERWENT, IBM_TDB search terms: ((sub adj wavelength) subwavelength) with (grating aper ture),
(((sub adj wavelength) subwavelength) with (grating apeerture)) and microscop\$6) and (core clad cladding)