



(51) International Patent Classification:
G02B 26/08 (2006.01)

(21) International Application Number:
PCT/US2011/025773

(22) International Filing Date:
22 February 2011 (22.02.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/306,827 22 February 2010 (22.02.2010) US

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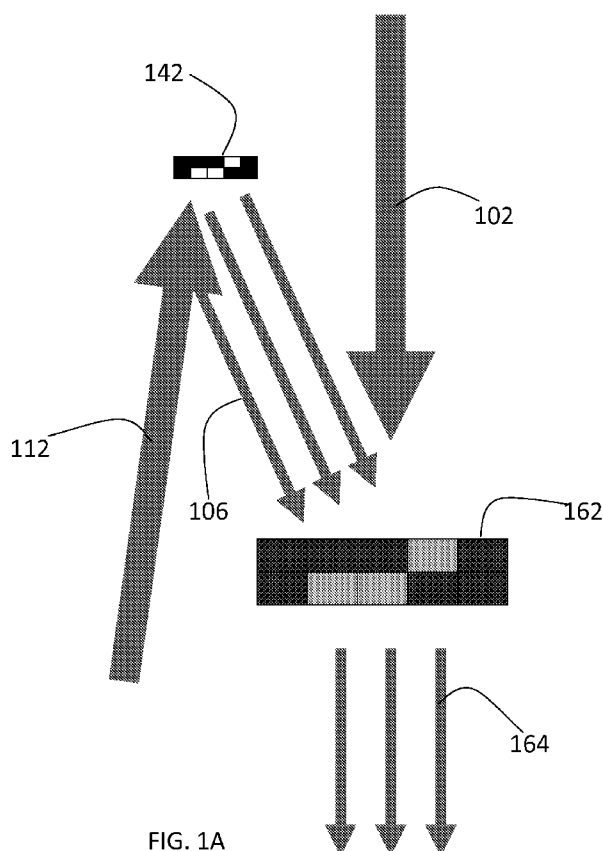
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

[Continued on next page]

(54) Title: OPTICALLY DRIVEN TERAHERTZ MODULATOR



(57) Abstract: A system and method for high-resolution imaging terahertz radiation utilizing a spatial terahertz modulator based on interactions of photons at other energies with an intermediate screen to create very high speed modulation.

FIG. 1A



(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
29 December 2011

A. CLASSIFICATION OF SUBJECT MATTER**G02B 26/08(2006.01)i**

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)

G02B 26/08; G01J 1/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: compressive sensing, compressive imaging, nanotube

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CHAN, WAI LAM et al., A single-pixel terahertz imaging system based on compressed sensing, APPLIED PHYSICS LETTERS, Vol. 93, No. 12, 121105, September 2008 See Abstract; Figure 1	1-10
A	WAKIN, M. B. et al., An architecture for compressive imaging, 2006 IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, pp. 1273-1276, 8-11 October 2006 See Abstract; Figure 1	1-10
A	US 2009-0316141 A1 (FELDKHUN DANIEL) 24 December 2009 See Abstract; Figure 1; Claim 1	1-10



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

31 OCTOBER 2011 (31.10.2011)

Date of mailing of the international search report

31 OCTOBER 2011 (31.10.2011)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 189 Cheongsa-ro,
Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/025773Patent document
cited in search reportPublication
datePatent family
member(s)Publication
date

US 2009-0316141 A1

24. 12. 2009

None