

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 September 2007 (27.09.2007)

PCT

(10) International Publication Number
WO 2007/109725 A3

- (51) **International Patent Classification:**
G03B 21/60 (2006.01)
- (21) **International Application Number:**
PCT/US2007/064521
- (22) **International Filing Date:** 21 March 2007 (21.03.2007)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
60/784,203 21 March 2006 (21.03.2006) US
60/784,202 21 March 2006 (21.03.2006) US
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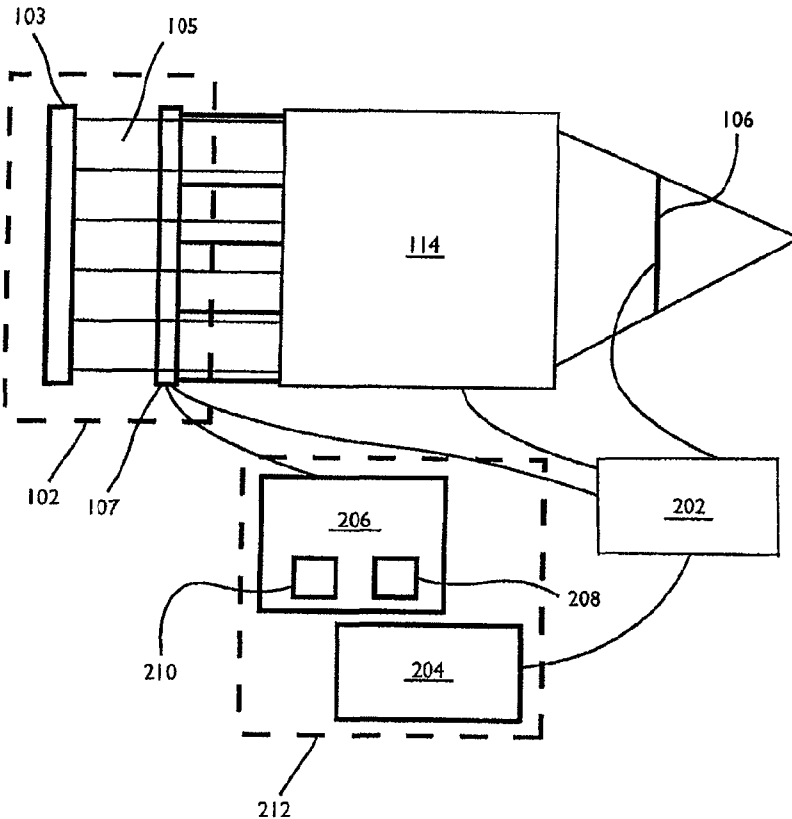
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(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, 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, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

(84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) **Title:** ACTIVE MASK VARIABLE DATA INTEGRAL IMAGING SYSTEM AND METHOD



(57) **Abstract:** A system for forming an integral image includes an optics system (114) spaced between an active digital mask (102) and the first side (108) of an integral lens array (106), where the integral lens array (106) has a light sensitive material layer (112) spaced relative to the second side (110) of the integral lens array (106). The active digital mask (102) may provide the image directly to the integral lens array (106), or the image may be focused on a projection screen (140) placed relative to the integral lens array (106). The active digital mask (102) can vary the provided image to create a three dimensional image and to account for distortions caused by the optics system (114) or curvature in the integral lens array (106) and/or the light sensitive material (112). Edible materials may be used for the integral lens array (106) and light sensitive material (112).

WO 2007/109725 A3



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, **IS**, **IT**, LT, LU, LV, MC, MT, NL, PL,
PT, **RO**, SE, **SI**, SK, TR), OAPI (BF, **BJ**, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

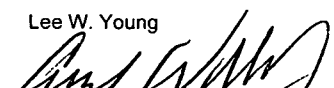
— *with international search report*

(88) Date of publication of the international search report:
29 May 2008

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/64521

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - G03B 21/60 USPC - 359/458 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) IPC(8)- G03B 21/60 (2007 01) USPC- 359/458 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched IPC(8)-G02B 6/26 G02B 6/42 (2007.01) USPC: 359/450; 359/379; 359/462 (text search); Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PUBWEST(USPT, PGPB, EPAB, JPAB); DialogPRO(Engineering and Patent); Google Scholar Search Terms: variable lens array active integral imaging distortion ray tracing adaptive programmable computer illumination pattern active matrix three dimensional 3d display projection systems masking technique projector variable mask edible		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	STERN, A. AND JAVIDI, B Three-Dimensional Image Sensing, Visualization, and Processing Using Integral Imaging [online], MARCH 2006 PROCEEDINGS OF THE IEEE, VOL. 94, NO. 3, Retrieved from the Internet [23.09 2007] t: <URL: http://ieeexplore.ieee.org/Xplore/login.jsp?url=/iel5/5/33728/01_605205.pdf > entire document and particularly Fig. 2 (a-c), Fig 3 (a-b), Fig. 7. pg 592, para 5, pg 594, para 3, pg 600, para 8	1-49
Y	US 6,570,623 B1 (LI et al) 27 May 2003 (27 05 2003) entire document and particularly col 3, ln 25-44, col 5, ln 35-44,	1-49
Y	US 2003/0203078 A1 (SUMMERS) 30 October 2003 (30.10 2003) para [0027]	7-8 and 26-27
Y	US 3,154,415 (KAULEN) 27 October 1964 (27.10 1964) col 2, ln 45-60	9-12 and 28-29
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
<ul style="list-style-type: none"> * Special categories of cited documents "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family 		
Date of the actual completion of the international search 23 September 2007 (23.09.2007)		Date of mailing of the international search report 25 FEB 2008¹
Name and mailing address of the ISA/US Mail Stop PCT, Attn- ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Lee W. Young  PCT Helpdesk. 571-272(*)300 PCTOSP 571-272-7774