

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 September 2006 (28.09.2006)

PCT

(10) International Publication Number
WO 2006/102368 A3

- (51) International Patent Classification:
G02B 27/14 (2006.01)
- (21) International Application Number:
PCT/US2006/010322
- (22) International Filing Date: 22 March 2006 (22.03.2006)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/664,254 22 March 2005 (22.03.2005) US
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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, 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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, 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, 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).

Declarations under Rule 4.17:

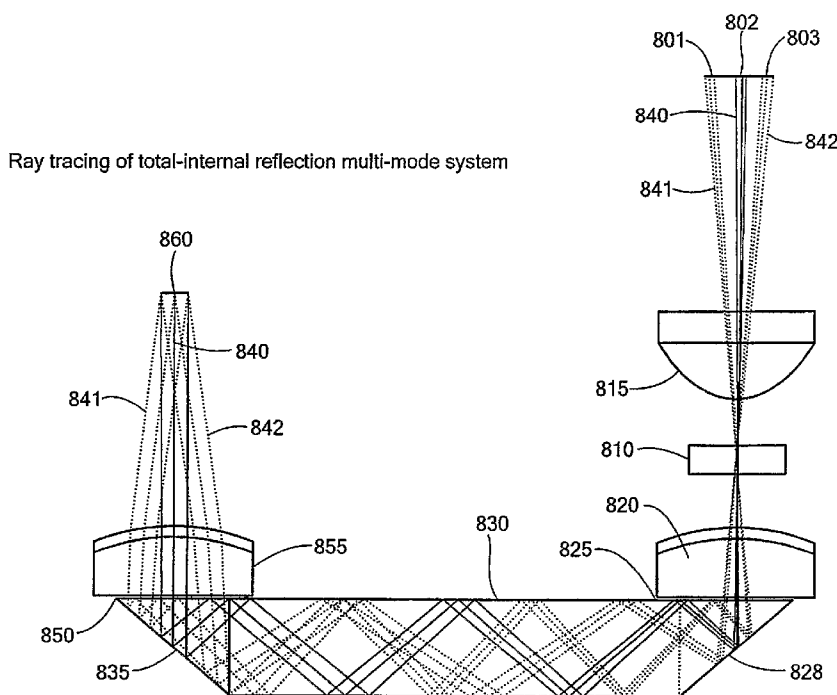
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report

[Continued on next page]

(54) Title: OPTICAL SYSTEM USING TOTAL INTERNAL REFLECTION IMAGES



(57) Abstract: An optical system for a head mounted display includes a light pipe having two parallel surfaces along which modes can travel by total internal reflection. An illumination element allows selection of modes so that the desired modes can be transmitted along the light pipe, either axially or by total internal reflection.

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(88) Date of publication of the international search report:

10 May 2007

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/US06/10322

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G02B 27/14**(2006.01)

USPC: 359/630

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. : 359/630,629,631,633,636,641,738,739; 345/7-9; 349/11

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic 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.
A	US 6,204,974 B1 (SPITZER) 20 March 2001 (20.03.2001), see entire document.	1-28
A	US 6,356,392 B1 (SPITZER) 12 March 2002 (12.03.2002), see entire document.	1-28
A	US 6,384,982 B1 (SPITZER) 07 May 2002 (07.05.2002), see entire document.	1-28
A	US 5,886,822 A (SPITZER) 23 March 1999 (23.03.1999), see entire document.	1-28
A	US 6,349,001 B1 (SPITZER) 19 February 2002 (19.02.2002), see entire document.	1-28

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:		
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means		
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Date of the actual completion of the international search

11 January 2007 (11.01.2007)

Date of mailing of the international search report

31 JAN 2007

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US06/10322

Continuation of B. FIELDS SEARCHED Item 3:

USPGPUB, USPAT, USOCR search notes: ((head near2 display) and pipe and display and collimat\$4 and conden\$3 and aperture and (TIR or (total near@ reflection))) .clm.