(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(10) International Publication Number WO 2011/135542 A3

(43) International Publication Date 3 November 2011 (03.11.2011)

(51) International Patent Classification: H04N 13/00 (2006.01) G02B 27/22 (2006.01) G02B 27/02 (2006.01)

(21) International Application Number:

PCT/IB2011/051895

(22) International Filing Date:

29 April 2011 (29.04.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

12/770,228

29 April 2010 (29.04.2010)

US

- (72) Inventor; and
- Applicant: LEE, Yan Yan [CN/CN]; 11/F. King Fook Building, 30-32 Des, Voeux Road Central, Hong Kong
- (72) Inventor: CHAN, Hoi Ming; 3/F. Block E, Braemar Terrace, North Point, Hong Kong (CN).
- (74) Agent: ONC Lawyers; 14-15th Floor, The Bank of East, Asia Building, 10 Des Voeux Road, Central Hong Kong
- (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.

(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:

22 December 2011

(54) Title: 3-D MOVING PICTURE VIEWING APPARATUS

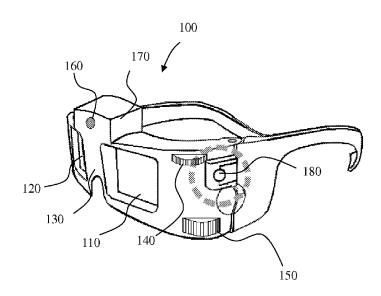


Figure 1

(57) Abstract: A 3-D viewing apparatus for viewing moving pictures, the apparatus comprising a left-channel viewer and a right-channel viewer respectively for viewing by left-eye and right-eye of a user, and an electronically controlled shutter mechanism which is arranged to alternatively shut the left-channel viewer and the right-channel viewer such that a user only sees the left- and right- channels through the left- and right viewers respectively. The shutting frequency of the shutter mechanism is predetermined or preset by an electronic controller. The 3-D viewing glass has a shutting mechanism which is arranged to shut the left- and right-viewers at a predetermined, preset or pre-programmed means there is no need to extract electronic synchronization signals from the video source and this makes the 3-D viewing glass more economical and more convenient to use.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2011/051895

		PCI	Γ/IB2011/051895
A. CLAS	SIFICATION OF SUBJECT MATTER		
	See ex	tra sheet	
According	to International Patent Classification (IPC) or to both na	ational classification and IPC	
B. FIEL	DS SEARCHED		
Minimum c	documentation searched (classification system followed	by classification symbols)	
	IPC: G0	2B; H04N	
Documenta	tion searched other than minimum documentation to th	e extent that such documents are incl	uded in the fields searched
Electronic o	data base consulted during the international search (nan	ne of data base and, where practicable	e, search terms used)
	BS, CNTXT, CNKI: 3D, three dimensional, solid, tric glass, eyeglass, specs, spectacles, specks, peeper, vision	•	ality, stereo, eye, frequency, lef
C. DOCU	JMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.
X	CN1104776A (GAO Weimin) 05 Jul. 1995(05.0 description page 1, line 2 to page 3, line 10	7.1995)	1-21
A	A WO2010032927A2 (SAMSUNG ELECTRONICS CO LTD) 25 Mar. 2010(25.03.2010) the whole document		1-21
Α			1-21
A	CN1060004A (LIU Zhiping) 01 Apr. 1992(01.04	4.1992) the whole document	1-21
☐ Furtl	her 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 "E" earlier application or patent but published on or after the		"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	
international filing date "L" document which may throw doubts on priority claim (S) or		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	
which is cited to establish the publication date of another citation or other special reason (as specified)		cannot be considered to involve an inventive step when the document is combined with one or more other such	
other	ment referring to an oral disclosure, use, exhibition or means	documents, such combination being obvious to a person skilled in the art "&"document member of the same patent family	
	ment published prior to the international filing date ater than the priority date claimed		
Date of the actual completion of the international search		Date of mailing of the international search report 03 Nov. 2011 (03.11.2011)	
Tama c 4	17 Oct. 2011(17.10.2011)	U3 NOV. 2011 ((U3.11.2U11)
Jame and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 00088		Authorized officer SONG, Zuozhi Talanhana Na (8) 10) 62/411804	
acsimile No. 86-10-62019451		Telephone No. (86-10) 6241189 4	+

Form PCT/ISA /210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/IB2011/051895

Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN1104776A	05.07.1995	None	
WO2010032927A2	25.03.2010	US2010066820A1	18.03.2010
		KR20100032284A	25.03.2010
		MX2011002842A	28.04.2011
		EP2327228A2	01.06.2011
		WO2010032927A3	24.06.2010
CN2845364Y	06.12.2006	None	
CN1060004A	01.04.1992	None	

Form PCT/ISA /210 (patent family annex) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2011/051895

Continuation of: second sheet: A. CLASSIFICATION OF SUBJECT MATTER				
H04N13/00 (2006.01) i G02B27/02 (2006.01) i G02B27/22 (2006.01) i				

Form PCT/ISA /210 (extra sheet) (July 2009)