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<i>G02B 27/22</i> (2006.01) <i>G02B 27/02</i> (2006.01) | (81) Designated States (<i>unless otherwise indicated, for every kind of national protection available</i>): 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. |
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[Continued on next page]

- (54) Title:** METHOD AND APPARATUS FOR PROVIDING A 3D IMAGE VIA MEDIA DEVICE

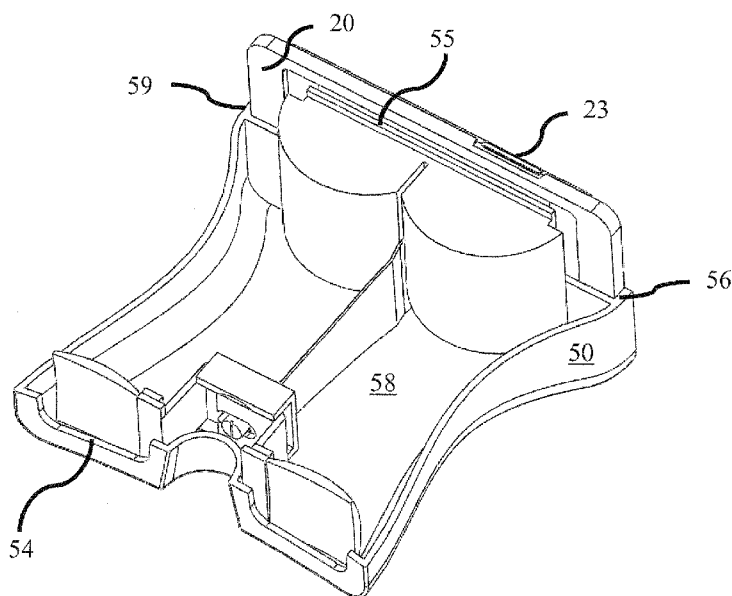


FIG. 1D

and/or distance.

(57) Abstract: Embodiments of the subject invention relate to a method and apparatus for providing a 3D image and/or 3D video. Specific embodiments can provide a 3D image and/or 3D video via a handheld media player. Examples of handheld media players via which embodiments can provide a 3D image and/or 3D video include, but are not limited to, an iPod®, a personal digital assistant (PDA), a cell phone, or an iPhone®. In accordance with specific embodiments of the invention, the problem of viewing three-dimensional (3D) images on personal or handheld media devices is solved by the use of a compatible 3D viewer. Embodiments of the viewer, can provide a 3D experience to a user from images provided on the smaller viewscreen of a smaller, personal, or handheld media device. Specific embodiments described herein provide a 3D viewer that can present two stereoscopic images (i.e., 2-Dimensional (2D) images, having horizontal disparity) to a user's or viewer's eyes, such that each eye sees only one of the two stereoscopic images. By the process of stereopsis, the images are combined by the brain into a single 3D image giving the sensation, or perception, of depth



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INTERNATIONAL SEARCH REPORT

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PCT/US2010/033233**A. CLASSIFICATION OF SUBJECT MATTER****G02B 27/22(2006.01)i, G02B 27/02(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 27/22; A63F 13/08; G03B 21/00; G02B 27/04

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: 3d, stereoscope, portable, HMD, landscape, portrait, lens, prism, and similar terms.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1932572 A1 (KONAMI DIGITAL ENTERTAINMENT CO., LTD.) 18 June 2008 See abstract, claims 1-9, and figures 1-12.	1-78
Y	US 2006-0238718 A1 (DAVID ERICKSON et al.) 26 October 2006 See abstract, claims 1-39, and figures 1-9.	1-78
A	US 5390047 A1 (MIZUKAWA; SHIGEO) 14 February 1995 See abstract, claims 1-4, and figures 1-4.	1-78
A	WO 98-14819 A1 (JONES, CHARLES, W.) 09 April 1998 See abstract, claims 1-17, and figures 1-40.	1-78

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

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"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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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