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(54) Title: SEGMENTED DIRECTIONAL BACKLIGHT AND RELATED METHODS OF BACKLIGHT ILLUMINATION

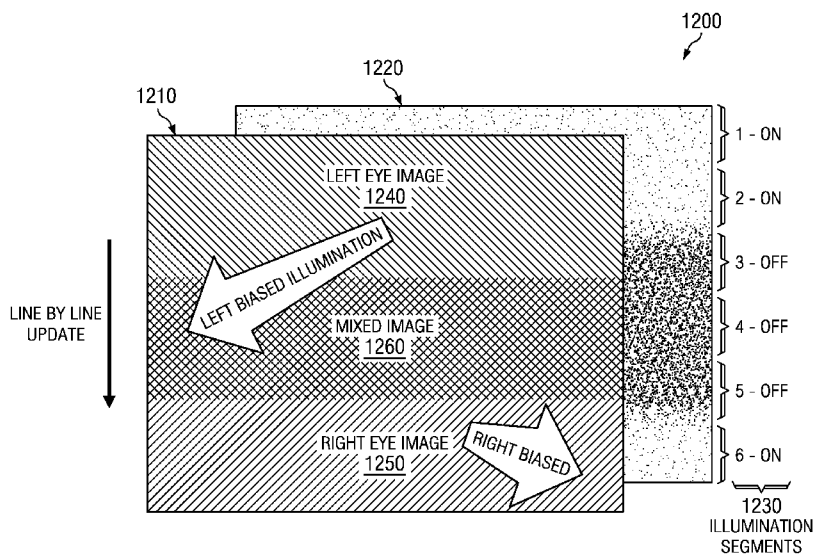


FIG. 12

(57) **Abstract:** Backlit display systems, such as those employed with LED backlit displays, including those configured for autostereoscopic operation, may employ synchronization between the backlight and the presentation of sequential left and right eye images at a frame rate exceeding approximately 100Hz. To successfully directionally illuminate isolated frames, the disclosed principles provide for segmenting the directional illumination and introducing a phase shifted, synchronized, pulsed drive scheme for the illumination segments. Accordingly, the principles disclosed herein are directed to segmented directional illumination systems and related techniques for segmented directional backlight illumination.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/042279**A. CLASSIFICATION OF SUBJECT MATTER****G02B 27/22(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; G02F 1/13357; F21V 8/00; G02B 6/00; H04N 13/04

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: autostereoscopic display, illumination segments, illumination unit, LED, display segments

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2008-0084519 A1 (BRIGHAM et al.) 10 April 2008	1-6, 9-16, 18-22
A	See abstract, paragraphs [0027], [0034], [0040], [0047] and figures 2A-3.	, 25-29 7-8, 17, 23-24, 30
Y	US 2010-0277575 A1 (ISMAEL et al.) 04 November 2010	1-6, 9-16, 18-22
A	See abstract, paragraph [0075] and figures 3, 5.	, 25-29 7-8, 17, 23-24, 30
A	US 6061489 A (EZRA et al.) 09 May 2000	1-30
A	See abstract, claim 1 and figure 11.	
A	KR 10-2003-0064258 A (FUJITSU DISPLAY TECHNOLOGIES CORPORATION) 31 July 2003	1-30
A	See abstract and figures 1-6.	

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

* Special categories of cited documents:

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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