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(54) **Title:** SEAMLESS DISPLAY PANEL USING FIBER OPTIC CARPET

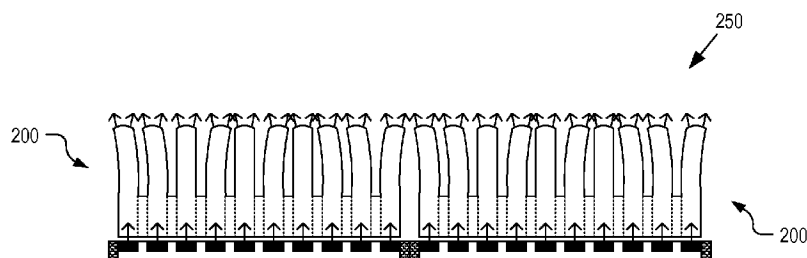


FIG. 2B

(57) **Abstract:** A display panel for use with a multi-panel display includes an array of display pixels to emit pixel light. A fiber bundle including an array of fibers is disposed over the array of display pixels. The fiber bundle includes a first end of the array of fibers rigidly fixed adjacent to the array of display pixels and optically aligned with the array of display pixels and a loose fiber portion that permits a second end of the array of fibers opposite the first end to slump-over and move. The fiber bundle receives the pixel light emitted from the array of display pixels into the first end of the array of fibers and emits the pixel light out the second end of the array of fibers.



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/030026**A. CLASSIFICATION OF SUBJECT MATTER****G09F 9/33(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)

G09F 9/33; D01F 9/12; G02B 3/00; G02B 6/04; H01J 37/073; G02B 1/10; G02F 1/1335; G02B 5/02; H04N 1/028; G02B 6/06

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: display panel, fiber, lens, pixel

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6885010 B1 (PETER JOHN TRAYNOR et al.) 26 April 2005 See column 3, line 53 - column 7, line 21; and figures 2(A)-5.	1-24
Y	JP 2008-309963 A (HITACHI DISPLAYS LTD.) 25 December 2008 See paragraphs [0010]-[0058]; and figures 1-12.	1-24
Y	KR 10-2011-0008486 A (YOON SEOK CHANG) 27 January 2011 See paragraphs [0024]-[0051]; and figures 1-8.	2, 14-16, 19-24
A	JP 2009-098239 A (IDEC CORP.) 07 May 2009 See paragraphs [0028]-[0045]; and figures 1-8.	1-24
A	JP 09-083728 A (NEC CORP.) 28 March 1997 See paragraphs [0030]-[0039]; and figures 1, 2.	1-24



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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