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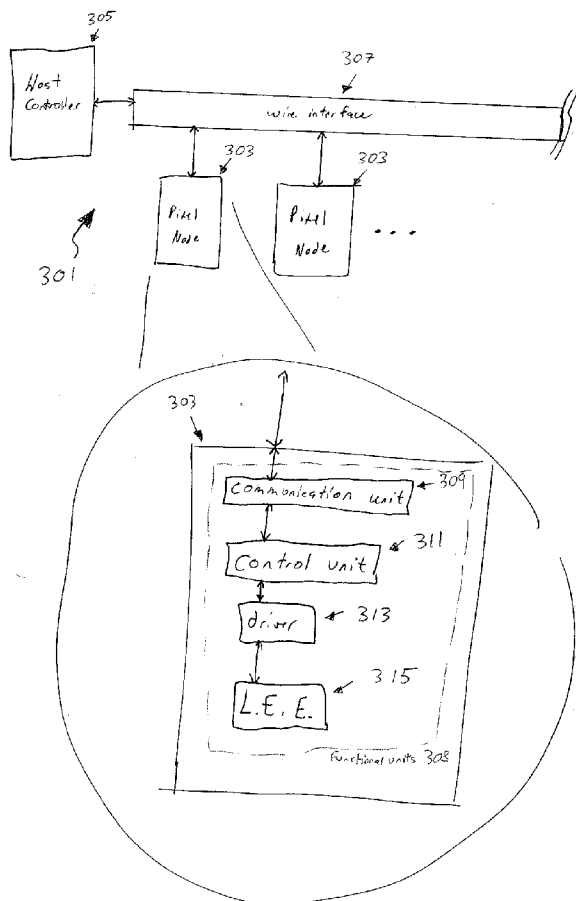
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[Continued on next page]

(54) Title: LIGHT-EMITTING DISPLAY ARCHITECTURE



(57) Abstract: A light-emitting display driver architecture and a method of supplying power and data thereto are disclosed. The driver architecture includes a wire interface with a host controller electrically connected thereto. Further, first and second pixel nodes are connected to the wire interface in parallel. The first and second pixel nodes each include a communication unit, a control unit, a driver, and a light-emitting element. A data signal and a power signal is then transmitted from the host controller through the wire interface, in which data is extracted from the data signal for the first pixel node based upon a fixed unique ID corresponding to the first pixel node.

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PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY,
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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER			
<i>G09F 9/33(2006.01)i, G09G 3/14(2006.01)i, G09G 3/32(2006.01)i</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) IPC 8: G09F, G09G			
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 since 1975 Japanese Utility models and applications for Utility models since 1975			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKIPASS(KIPO internal, Keyword: "LED, module, distribute, control and the similar terms")			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages		
X	JP 11-126047 A(NICHIA CHEM IND LTD) May 11 1999		
Y	See abstract, Fig 1, Fig2, Fig 6, [0007]-[0016], [0024]-[0047], [0055]-[0057]		
Y	US 2005-0112801 A1(Anthony Russell, Gelu Voicu) May 26, 2005 See abstract, Fig 4, description related to Fig 4		
A	US 05410328 A(Yoksza; David R., Waltz; Thomas M.) 25 April 1995 See abstract, Fig 3, description related to Fig 3		
	Relevant to claim No.		
	1,5-11,15-19,21-29		
	2-4		
	2-4		
	1-11, 15-19, 21-29		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> * 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 international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td style="width: 50%; border: none; vertical-align: top;"> "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 </td> </tr> </table>		* 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 international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "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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Date of the actual completion of the international search	Date of mailing of the international search report		
10 DECEMBER 2007 (10.12.2007)	10 DECEMBER 2007 (10.12.2007)		
Name and mailing address of the ISA/KR	Authorized officer		
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2007/070896

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 12, 13, 14, 20
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
The claims are too broad to make meaningful search.

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2007/070896

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 11-126047 A	11.05.1999	JP11126047A2 JP11126047	11.05.1999 11.05.1999
US 2005-112801 A1	26.05.2005	US2005112801AA	26.05.2005
US 05410328 A	25.04.1995	NONE	