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(54) **Pixel structure of organic electroluminescence device**

(57) A pixel structure of an organic electroluminescence device includes a scan line, and a data line, a bias line and a readout line on a substrate, a first switch device, a capacitor, a driving device, an organic light emitting device, a second switch device and a photo sensor device. The first switch device is electrically connected to the scan line and the data line. The capacitor is electrically connected to the first switch device and the bias line. The driving device is electrically connected to the first switch device, the capacitor and the bias line. The organic light emitting device is electrically connected to the driving device. The second switch device is electrically connected to the scan line and the readout line. The photo sensor device is electrically connected to the second switch device and the bias line.

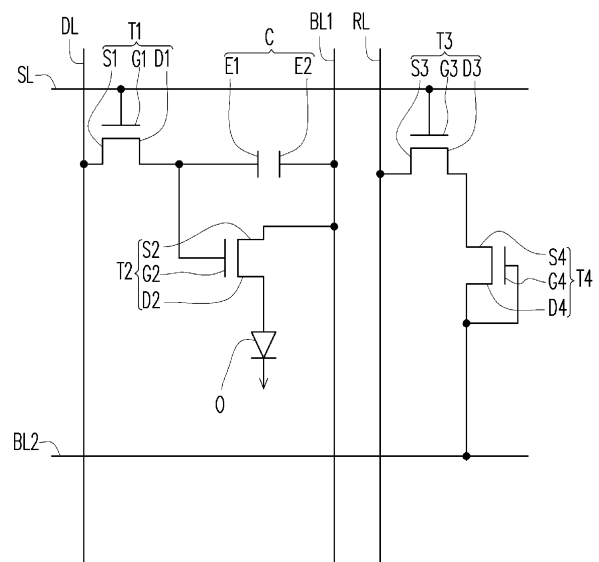


FIG. 1

**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

EP 13 15 2458

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2006/214893 A1 (TSENG HUAI-YUAN [TW] ET AL) 28 September 2006 (2006-09-28) * the whole document *	1-12	INV. G09G3/32 G06F3/041 G06F3/042 H01L27/32
X	EP 2 328 178 A2 (SAMSUNG MOBILE DISPLAY CO LTD [KR]) 1 June 2011 (2011-06-01) * the whole document *	1-12	
A	JP 2009 283676 A (TOSHIBA MOBILE DISPLAY CO LTD) 3 December 2009 (2009-12-03) * paragraphs [0014], [0021] - [0055], [0066]; figures 2,4 *	7,10-12	
A	JP 2009 244638 A (MITSUBISHI ELECTRIC CORP) 22 October 2009 (2009-10-22) * paragraph [0023]; figure 1 *	8,9	
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G G06F H01L

INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.

Claims searched completely :

Claims searched incompletely :

Claims not searched :

Reason for the limitation of the search:

see sheet C

Place of search

The Hague

Date of completion of the search

5 October 2016

Examiner

Vázquez del Real, S

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document



INCOMPLETE SEARCH SHEET C

Application Number

EP 13 15 2458

Claim(s) completely searchable:

1-12

Claim(s) not searched:

13-24

Reason for the limitation of the search:

The present application contains 24 claims, of which 3 are independent. There is no clear distinction between the independent claims because of overlapping scope. There are so many claims and they are drafted in such a way that the claims as a whole do not comply with the provisions of clarity and conciseness in Article 84 EPC, as it is particularly burdensome for a skilled person to establish the subject-matter for which protection is sought. Non-compliance with the substantive provisions is such that a meaningful search of the whole claimed subject-matter could/can not be carried out (Rule 63 EPC and Guidelines B-VIII, 3). In reply to the invitation to indicate the claims on which the search is to be based, the applicant failed to supply the requested indication in due time.

In his letter of reply] he amended the independent claims making them dependent. However, the claims can not be amended at this stage of the procedure.

Thus, the search report has been drawn up on the basis of the first independent claim of each category (Rule 62a(1) EPC):

Claims 1-12

The applicant's attention is drawn to the fact that the application will be further prosecuted on the basis of subject-matter for which a search has been carried out and that the claims should be limited to that subject-matter at a later stage of the proceedings (Rule 62a(2) EPC).

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 13 15 2458

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

05-10-2016

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2006214893 A1	28-09-2006	TW I253846 B US 2006214893 A1	21-04-2006 28-09-2006
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专利名称(译)	有机电致发光器件的像素结构		
公开(公告)号	EP2624245A3	公开(公告)日	2016-11-09
申请号	EP2013152458	申请日	2013-01-24
[标]申请(专利权)人(译)	剑扬股份有限公司		
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IPC分类号	G09G3/32 G06F3/041 G06F3/042 H01L27/32		
CPC分类号	G06F3/0412 G06F3/0421 G06F2203/04103 G09G3/3258 G09G2300/0426 G09G2320/0295 H01L27/326 H01L27/3269 H01L27/3209 H01L27/3218 H01L27/3241 H01L27/3248 H01L27/3265 H01L51/5012 H01L51/504 H01L51/5203 H01L51/5218 H01L51/5234		
优先权	13/366270 2012-02-04 US		
其他公开文献	EP2624245A2		
外部链接	Espacenet		

摘要(译)

有机电致发光装置的像素结构包括扫描线以及基板上的数据线，偏压线和读出线，第一开关装置，电容器，驱动装置，有机发光装置，第二开关装置和光传感器装置。第一开关元件电性连接扫描线与数据线。电容器电连接到第一开关器件和偏置线。驱动装置电连接到第一开关装置，电容器和偏置线。有机发光装置电连接到驱动装置。第二开关元件电性连接扫描线与读出线。光传感器装置电连接到第二开关装置和偏置线。

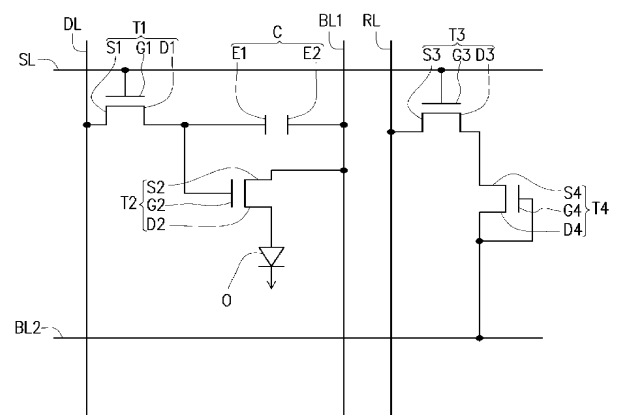


FIG. 1