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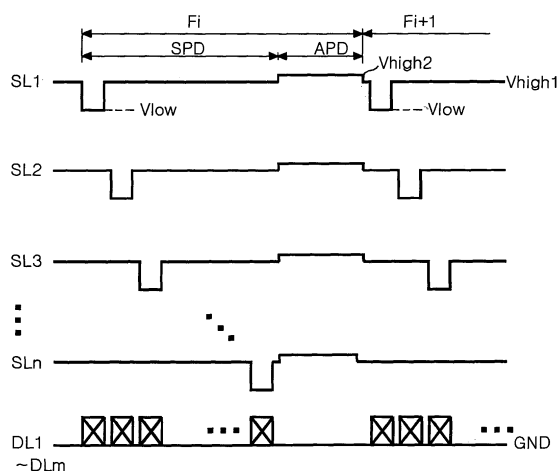
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(54) **Method and apparatus for driving electroluminescence display panel**

(57) The present invention relates to a method and apparatus for driving a passive electro-luminescence display panel capable of doing an aging operation upon driving. The method of driving the display panel according to the present invention includes: a scan period (SPD) when electro-luminescence cells formed at a cross of both a plurality of scan lines and a plurality of data lines are line-sequentially emitted; and an aging period (APD) when an aging is performed in the electro-luminescence cells at the same time by applying a reverse bias, wherein the scan period and the aging period are repeated for each frame.

FIG.3



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EUROPEAN SEARCH REPORT

Application Number
EP 05 01 8001

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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	----- -/--		
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 27 October 2008	Examiner Morris, David
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			

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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 27 October 2008	Examiner Morris, David
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			

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Application Number

EP 05 01 8001

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION
SHEET B

Application Number

EP 05 01 8001

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-3, 35-40

Directed to a method and apparatus of driving an electro-luminescent display panel in which the same high aging voltage is supplied, from shift register comprising a level shifter, to the entire scan lines of the display at the same time in an aging period.

No mention is made of generating a voltage difference between adjacent scan lines or between adjacent data lines. Nor is mention made of floating either the plurality of data lines or the plurality of scan lines during the aging period.

2. claims: 4-27, 41-62

Directed to an apparatus and method of driving an electroluminescence display in which, during an aging period, data lines are floated and a voltage difference is generated between adjacent scan lines.

No mention is made of applying the same high aging voltage, at the same time, to the entire scan lines, or of floating the scan lines.

3. claims: 28-34, 63-66

Directed to an apparatus and method of driving an electroluminescence display in which, during an aging period, scan lines are floated and a voltage difference is generated between adjacent data lines.

No mention is made of applying the same high aging voltage, at the same time, to the entire scan lines, or of floating the data lines

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

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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
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27-10-2008

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	用于驱动电致发光显示板的方法和设备		
公开(公告)号	EP1628284A3	公开(公告)日	2008-12-10
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申请(专利权)人(译)	LG电子株式会社.		
当前申请(专利权)人(译)	LG电子株式会社.		
[标]发明人	BAE HYO DAE KIM HAK SU		
发明人	BAE, HYO DAE KIM, HAK SU		
IPC分类号	G09G3/32		
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优先权	1020040118586 2004-12-31 KR 1020040070600 2004-09-04 KR 1020040070601 2004-09-04 KR 1020040065087 2004-08-18 KR		
其他公开文献	EP1628284A2		
外部链接	Espacenet		

摘要(译)

本发明涉及一种用于驱动无源电致发光显示板的方法和装置，该无源电致发光显示板能够在驱动时进行老化操作。根据本发明的驱动显示面板的方法包括：当在多条扫描线和多条数据线的交叉处形成的电致发光单元按行顺序发射时的扫描周期（SPD）；当通过施加反向偏压同时在电致发光单元中进行老化时的老化周期（APD），其中对于每帧重复扫描周期和老化周期。

FIG. 3

