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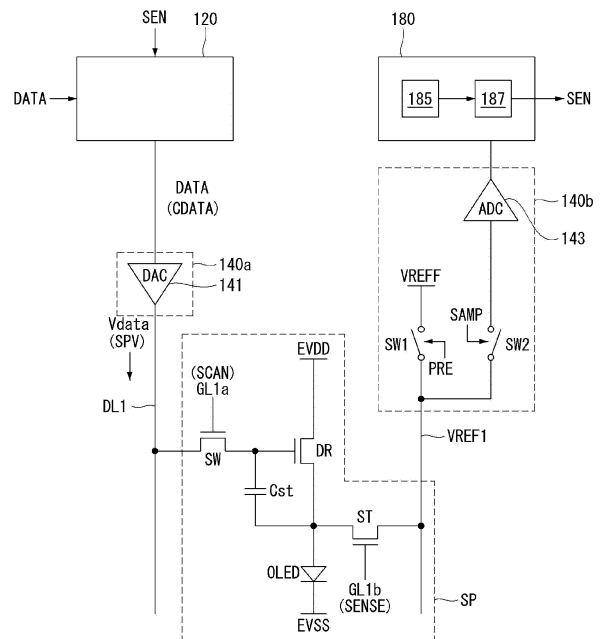
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(54) **ORGANIC LIGHT EMITTING DIODE DISPLAY DEVICE AND DRIVING METHOD THEREOF**

(57) The present invention provides an OLED display device including a display panel, a data driver and a timing controller. The display panel has sub-pixels for displaying images. The data driver supplies a data signal to data lines of the sub-pixels. The timing controller supplies the data signal to the data driver and controls the data driver. The data driver outputs a stress prevention voltage for preventing application of stress to driving transistors included in the sub-pixels in response to a stress compensation signal output from the timing controller, and the stress prevention voltage is applied to M (M being an integer equal to or greater than 1) sub-pixels selected per frame.

Fig. 6



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EUROPEAN SEARCH REPORT

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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 2006/187154 A1 (TSUCHIDA MASAMI [JP]) 24 August 2006 (2006-08-24) * paragraph [0024] - paragraph [0063]; figures 4-9 *	1-4,6,7, 15 5	INV. G09G3/3233
Y	----- US 2006/221092 A1 (NOGUCHI YUKIHIRO [JP] ET AL) 5 October 2006 (2006-10-05) * paragraph [0034] - paragraph [0038]; figures 1-3 *	5	
X	----- US 2009/295422 A1 (HAMER JOHN W [US] ET AL) 3 December 2009 (2009-12-03) * paragraph [0025] - paragraph [0056]; figures 1-5 *	1-5,7-15	
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 9 April 2018	Examiner Harke, Michael
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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**CLAIMS INCURRING FEES**

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

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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):

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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.

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**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:

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see sheet B

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

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

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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:

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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:

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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).

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**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
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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:

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1. claims: 1-7, 15

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The first invention concerns a device as claimed in claim 1, i.e. an OLED display device comprising: a display panel having sub-pixels for displaying images; a data driver configured to supply a data signal to data lines of the sub-pixels; and a timing controller configured to supply the data signal to the data driver and to control the data driver, wherein the data driver is configured to output a stress prevention voltage for preventing application of stress to driving transistors included in the sub-pixels in response to a stress compensation signal output from the timing controller, wherein the stress prevention voltage is applied to M (M being an integer equal to or greater than 1) sub-pixels selected per frame, wherein, as claimed in claim 5, the stress prevention voltage is applied to a driving transistor included in one sub-pixel selected from a white sub-pixel, a red sub-pixel, a green sub-pixel and a blue sub-pixel.

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2. claims: 8-14

The second invention concerns a device as claimed in claim 1 (see the first invention for further details), wherein, as claimed in claim 8, the level of the stress prevention voltage is higher than the level of a black voltage applied to the display panel.

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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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-04-2018

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EPO FORM P0459

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

