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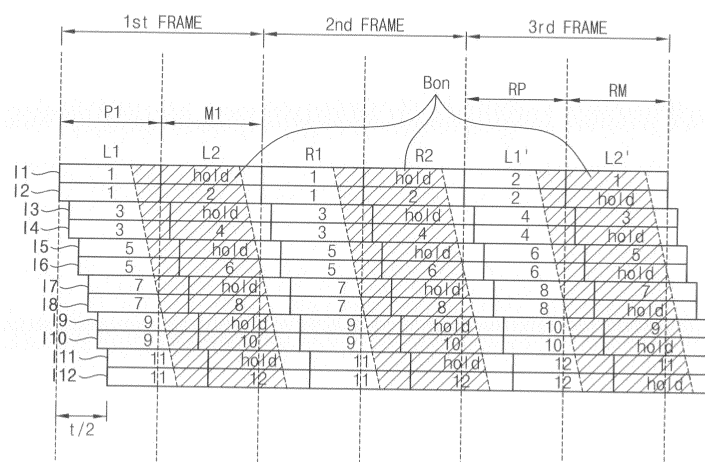
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(54) **Method of driving a display device**

(57) A method of driving a display device includes a preliminary frame charging step (P1) and a main frame charging step (M1). The method comprises a preliminary frame charging step (P1) of simultaneously charging liquid crystal cells of a first pixel row and a second pixel row

with pixel data for the first pixel row, the first and second pixel row being part of a pixel line group, and a main frame charging step (M1) of charging liquid crystal cells of the second pixel row of the pixel line group with pixel data for the second pixel row.

FIG. 8





EUROPEAN SEARCH REPORT

Application Number
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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 2004/041760 A1 (TSUMURA MAKOTO [JP] ET AL) 4 March 2004 (2004-03-04) * paragraphs [0076] - [0109], [0123] - [0132], [0135] - [0138]; figures 1,7,8,13,17 *	1-22	INV. G09G3/00 G09G3/36
A	WO 2007/021457 A2 (CHANG SIN-MIN [US]) 22 February 2007 (2007-02-22) * paragraphs [0004], [0032] - [0035]; figures 1,3C,3D *	13,15,16	
A	US 2003/179221 A1 (NITTA HIROYUKI [JP] ET AL) 25 September 2003 (2003-09-25) * paragraphs [0018], [0122], [0129]; figure 11 *	13	
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G
1 The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 29 July 2013	Examiner Demin, Stefan
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

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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:

1-22

☐ 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 13 16 3381

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: 1-22

A method of driving a display device reducing the delay time of a frame.

2. claims: 23-25

A method of driving a display device avoiding a difference in the charging start time between different groups of rows (e.g. odd and even) and maintaining a sufficient luminance of the display.

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

EP 13 16 3381

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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29-07-2013

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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)	驱动显示设备的方法		
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代理机构(译)	DR.威猛和合作伙伴		
优先权	1020120039317 2012-04-16 KR		
其他公开文献	EP2654035A2		
外部链接	Espacenet		

摘要(译)

一种驱动显示装置的方法包括预备帧充电步骤 (P1) 和主帧充电步骤 (M1)。该方法包括初步帧充电步骤 (P1)，其同时对第一像素行和第二像素行的液晶单元充电，其中第一像素行的像素数据，第一和第二像素行是像素线组的一部分，以及对第二像素行的像素数据，对像素线组的第二像素行的液晶单元进行充电的主帧充电步骤 (M1)。

FIG. 8

