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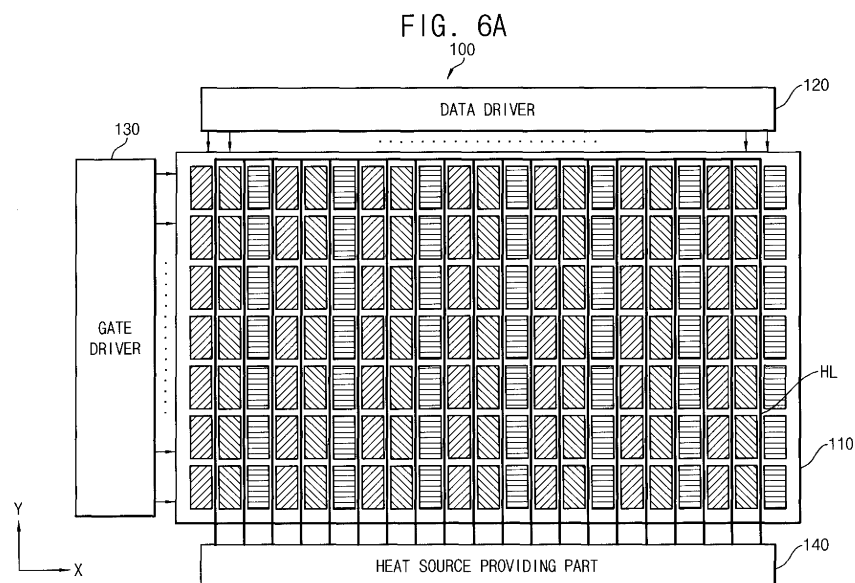
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(54) **Curved liquid crystal display panel and curved display device having the same**

(57) A curved liquid crystal display panel (110) includes an upper substrate having a curved shape, a liquid crystal layer, a lower substrate having a curved shape, where the lower substrate is combined with the upper substrate and the liquid crystal layer is disposed between

the upper substrate and the lower substrate, and a heating line (HL) disposed on at least one of the upper substrate and the lower substrate and which provides heat to the liquid crystal layer such that a temperature of the liquid crystal layer increases.





EUROPEAN SEARCH REPORT

Application Number
EP 12 19 3928

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	EP 1 107 047 A2 (MANNESMANN VDO AG [DE] SIEMENS AG [DE]) 13 June 2001 (2001-06-13) * paragraphs [0009], [0011], [0012], [0015] *	1-3, 13-15 5-12	INV. G02F1/1333 G02F1/1362
Y	----- JP 2007 102210 A (ASAHI GLASS CO LTD) 19 April 2007 (2007-04-19) * abstract *	1,3,15	
X	----- US 2005/073640 A1 (DUNN WILLIAM R [US] ET AL) 7 April 2005 (2005-04-07) * paragraphs [0003], [0045] - [0052]; figures 7,8,10,11 *	5-12	
Y	----- US 2009/161048 A1 (SATAKE TETSUYA [JP] ET AL) 25 June 2009 (2009-06-25) * paragraphs [0004] - [0006]; figure 4 *	1	
A	-----		
			TECHNICAL FIELDS SEARCHED (IPC)
			G02F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 11 December 2014	Examiner Stang, Ingo
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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**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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11-12-2014

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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)	弯曲的液晶显示板和具有该弯曲的液晶显示板的弯曲显示装置		
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其他公开文献	EP2700996A2 EP2700996B1		
外部链接	Espacenet		

摘要(译)

弯曲液晶显示面板 (110) 包括具有弯曲形状的上基板，液晶层，具有弯曲形状的下基板，其中下基板与上基板结合，液晶层设置在上基板和下基板，以及设置在上基板和下基板中的至少一个上的加热线 (HL)，其向液晶层提供热量，使得液晶层的温度增加。

