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(54) **Vertical alignment layer and liquid crystal display including the same**

(57) A liquid crystal display includes: a first substrate and a second substrate facing each other; a pair of field generating electrodes disposed on the first substrate; a liquid crystal layer disposed between the first substrate and the second substrate and including liquid crystal molecules having positive dielectric anisotropy; and at least

one alignment layer disposed between the first substrate and the second substrate, wherein the alignment layer includes a main chain and at least one side chain connected to the main chain, and the side chain includes a vertical functional group or a polar group

EP 2 482 124 A3



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	JP S57 58129 A (CANON KK) 7 April 1982 (1982-04-07) * abstract *	1-29	INV. G02F1/1337
X	DE 41 39 553 A1 (MERCK PATENT GMBH [DE]) 11 June 1992 (1992-06-11) * abstract *	1-29	
			TECHNICAL FIELDS SEARCHED (IPC)
			C08L G02F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 15 October 2013	Examiner Gill, Richard
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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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP S5758129	A	07-04-1982	NONE	

DE 4139553	A1	11-06-1992	NONE	

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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)	垂直取向层和包括其的液晶显示器		
公开(公告)号	EP2482124A3	公开(公告)日	2013-11-20
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[标]申请(专利权)人(译)	三星电子株式会社		
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当前申请(专利权)人(译)	三星DISPLAY CO. , LTD.		
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IPC分类号	G02F1/1337		
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代理机构(译)	DR.威猛和合作伙伴		
审查员(译)	GILL , RICHARD		
优先权	1020110010212 2011-02-01 KR		
其他公开文献	EP2482124A2		
外部链接	Espacenet		

摘要(译)

一种液晶显示器，包括：第一基板和第二基板，彼此面对;一对场发生电极设置在第一基板上;液晶层，设置在第一基板和第二基板之间，并包括具有正电各向异性的液晶分子;至少一个配向层设置在第一基板和第二基板之间，其中配向层包括主链和至少一个连接到主链的侧链，侧链包括垂直官能团或极性基团

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 557 58129 A (CANON KK) 7 April 1982 (1982-04-07) * abstract *	1-29	INV. G02F1/1337
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			TECHNICAL FIELD (IPC) G02F
The present search report has been drawn up for all claims			
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