

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number
EP 15 81 0955

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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X,P	WO 2014/103039 A1 (KYUSHU NANOTEC OPTICS CO LTD [JP]; BABA JUNICHI [JP]; YOSHIDA SHOTA [J]) 3 July 2014 (2014-07-03) * the whole document *	1-5	
			TECHNICAL FIELDS SEARCHED (IPC)
			G02F
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 18 December 2017	Examiner Ammerlahn, Dirk
CATEGORY OF CITED DOCUMENTS		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	
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			

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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18-12-2017

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专利名称(译)	液晶显示元件		
公开(公告)号	EP3163367A4	公开(公告)日	2018-01-24
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申请(专利权)人(译)	NISSAN CHEMICAL INDUSTRIES , LTD.		
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摘要(译)

本发明提供一种液晶显示装置，其中，在不施加电压时良好的透明性，施加电压时的散射性良好，液晶层与垂直液晶取向膜的密合性高。一种液晶显示装置，其包括液晶层，所述液晶层通过在设置有电极的一对基板之间设置液晶组合物并用紫外线照射所述液晶组合物并通过紫外线照射装置使其固化而形成的状态使得液晶层形成成为液晶层。液晶组合物部分或全部显示液晶性，并且至少一个基板设置有液晶取向膜以垂直取向液晶，其中液晶组合物包含液晶，可固化树脂，双功能单体具有选自自由羟基，羧基和磷酸基组成的组中的至少一种极性基团的单体，液晶取向膜是由含有聚合物的液晶取向剂得到的液晶取向膜具有特定的侧链结构。

 European Commission Directorate-General for Research and Innovation		SUPPLEMENTARY EUROPEAN SEARCH REPORT		Application Number EP 15 81 0955	
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				G02F	
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