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(54) Liquid crystal display device

(57) A liquid crystal display device includes a substrate (110), a thin film transistor 154c, 154h, 154l) disposed on the substrate, a plurality of color filters (230) disposed on the substrate, a light blocking member (220) disposed between the plurality of color filters and on the thin film transistor, and a pixel electrode disposed on at least one of the plurality of color filters. The pixel electrode comprises a planar shape electrode (192h, 192l) and a plurality of minute branches (193h, 193l) extending from the planar shape electrode. The at least one of the plurality of color filters or the light blocking member comprises a step forming portion (220p) overlapped by the planar shape electrode.

FIG.1

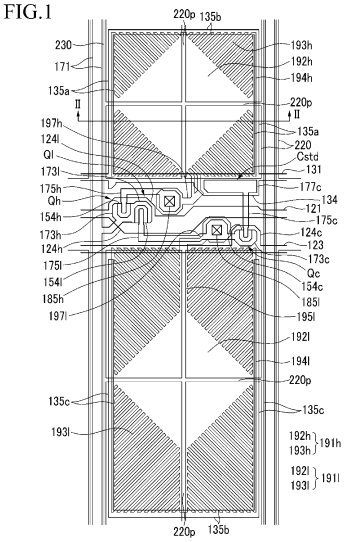

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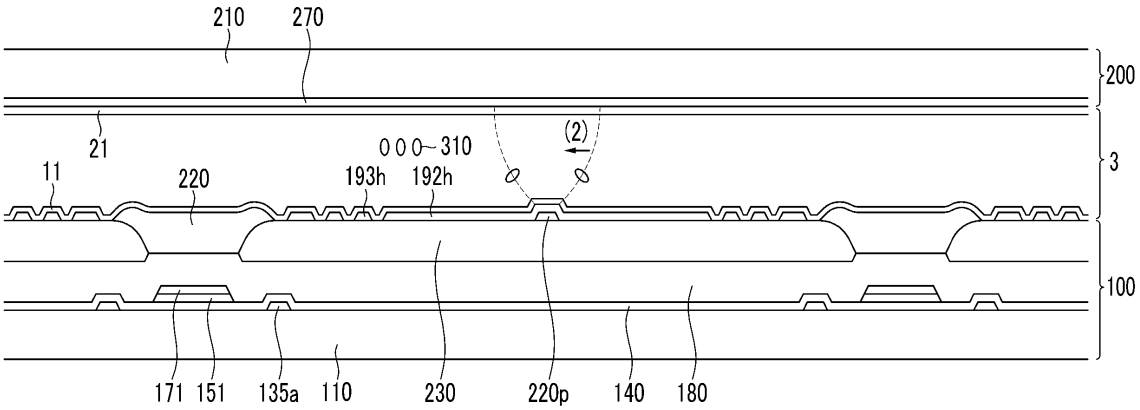
FIG.2


210
270
200
21
000~310
(2)
11
220
193h
192h
3
100
171
151
135a
110
230
220p
140
180

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EUROPEAN SEARCH REPORT

Application Number
EP 13 16 0554

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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A	US 2007/115421 A1 (NONAKA TOSHIYUKI [JP]) 24 May 2007 (2007-05-24) * paragraph [0046] - paragraph [0049] * * paragraph [0068] - paragraph [0072]; figures 3,6 * -----	1-15	
A	US 2009/015764 A1 (SU SHENG-CHUNG [TW] ET AL) 15 January 2009 (2009-01-15) * paragraph [0025] - paragraph [0027]; figures 3A,3B * -----	1-15	
			TECHNICAL FIELDS SEARCHED (IPC) G02F

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	29 June 2015	Petitpierre, Olivier

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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29-06-2015

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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)	液晶显示装置		
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[标]申请(专利权)人(译)	三星显示有限公司		
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IPC分类号	G02F1/1362 G02F1/1335 G02F1/1337		
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代理机构(译)	DR.威猛和合作伙伴		
审查员(译)	PETITPIERRE，OLIVIER		
优先权	1020120128097 2012-11-13 KR		
其他公开文献	EP2730972A2 EP2730972B1		
外部链接	Espacenet		

摘要(译)

一种液晶显示装置，包括基板（110），设置在基板上的薄膜晶体管154c，154h，154l，设置在基板上的多个滤色器（230），设置在基板之间的光阻挡构件（220）。多个滤色器和薄膜晶体管，以及设置在多个滤色器中的至少一个上的像素电极。像素电极包括平面形状电极（192h，192l）和从平面形状电极延伸的多个微小分支（193h，193l）。多个滤色器或光阻挡构件中的至少一个包括与平面形状电极重叠的台阶形成部分（220p）。