

(19) (KR)
(12) (A)

(51) 。 Int. Cl. ⁷ G02F 1/1345	(11) (43)	10-2004-0016222 2004 02 21
(21)	10-2002-0048490	
(22)	2002 08 16	
(71)	.	20
(72)		1369-7202
(74)		
:		
(54)		

가 가

, , ,
2

7

1 .

2 .

3 .

4 1 .

5 2 .

6a 6f .

7 11 1 4 .

* *

201 : 300a, 300b :

400, 402, 404 : 500 :

600 :

가 , LCD
(Liquid Crystal Display), PDP(Plasma Display Panel), ELD(Electro Luminescent Display), VFD(Vacuum Fluor
escent Display) 가 가 .

(Cathode Ray Tube) , LCD(,)가 가 , .

가 (Long Range Order) 가
가 가 ,

1 .

1 (21) (Gate Line)(14) (Data Line)(16)
(26) (13)(Thin Film Transistor)가 .
, 1 (21) 2 (22) (24) (23)가 , 1
2 (25) .

(畫素)

2 (30) (32) (33), (34) (30) (36)
, , (16) (30) 1 (33) (14) (26)
1 가 (16) (14) (33) (30) 가 ,
(16) (32) (33) (34) 가 .
가 , 가
(26) (24) 가
(25) ,

가 가 가 . 가

, , (Mobility) 가가
, 가 (34) (a-Si:H)

TFT ; Poly-Si TFT)가 (Polycrystalline silicon 가

가 , (2)
(a-Si:H TFT) , (IC) 가
COG(Chip On Glass) , TAB(Tape Automated Bonding) 가

, 가
3 , (1)
(5) (2) , (1)
(6) (3) , (2)(3) (4)
(5) (6) (2) 가 (3)
(5) (6) 가
, (2) , 4 (43) (44)가 , (45) m
() (45) (S1-Sn) ,
(43) (44) (S1-Sn)
(45) 가 (46) 가 , (45) m

, m

, .

, , / ,

, 4 (S1-Sn)
, 5 (a), (b) (S1-Sn) 가 , 가 (S1-Sn)
가 가 ,

, 가

가

2,

,

6a, 6f, 7, 11, 1, 4

6a, 6f

6a, (201), (SiO₂), (202), (a-Si:H)(203), (202), (203), (206), 6b

SLS(sequential lateral solidification)(.)

SLS

(laser beam)

6c, (206), (20), (207), (Sputtering), (207), (208)

6d, (208), (20), (206), n+, (209), (208)

6e, n+, (206), (209), (207), (Via hole), (210, 211), 1, (212), 2, (213)

6f, 1, (212), 2, (213), (211), (214), 3

(Metal), (208), / (210, 211), (214)

(S1-Sn), (201), 4

가

7, 1

0a, 300b), (201), (400, 402), (300a, 300b), 4, (30), (45), 가 (S1-Sn)

6e, (211), (300a, 300b), (300b), 6f, (214), (300a)

[illegible]

(57)

1. 가

2

2.

1 ,

3.

2 ,

4.

2 3 ,

5.

2 3 ,

6.

4 ,

7.

6 ,

8.

7 ,

9.

6

(Plate)

10.

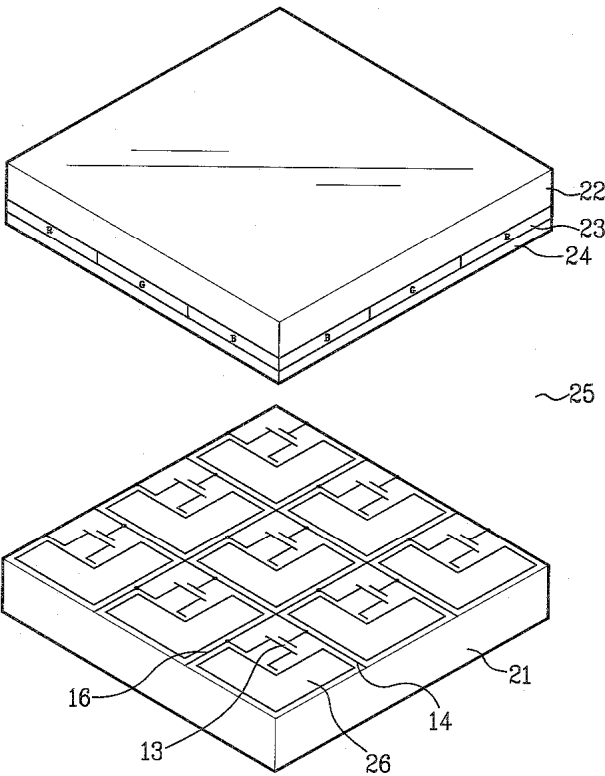
5

11.

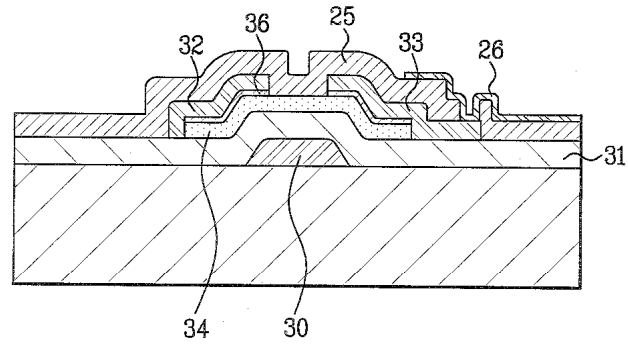
10

(Plate)

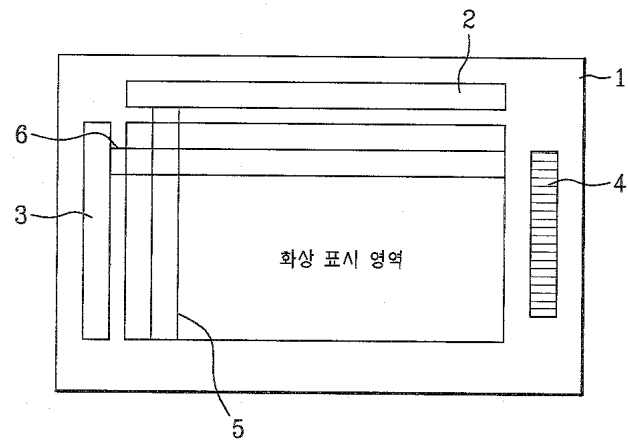
1



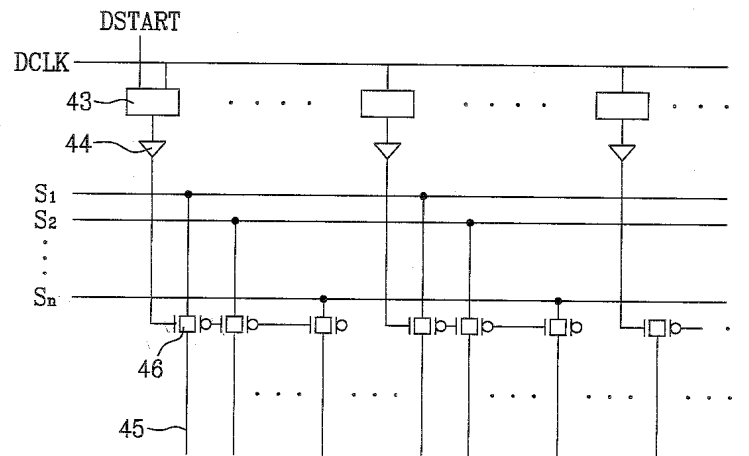
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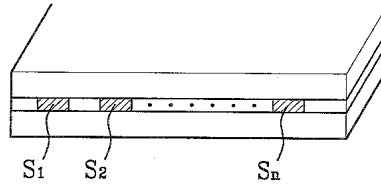
3



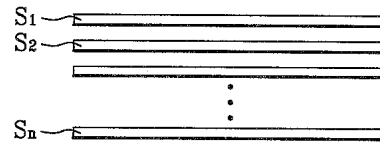
4



5

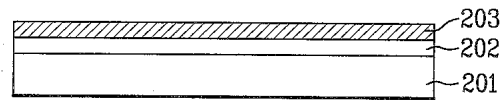


(a)

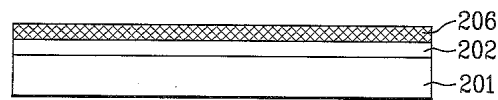


(b)

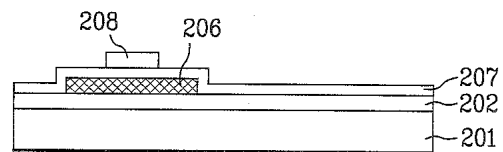
6a



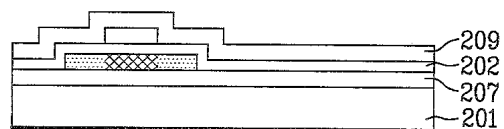
6b



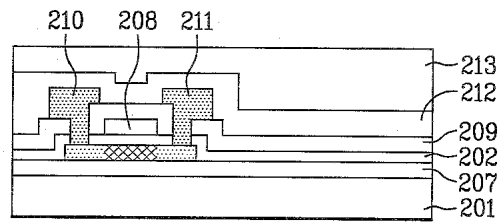
6c



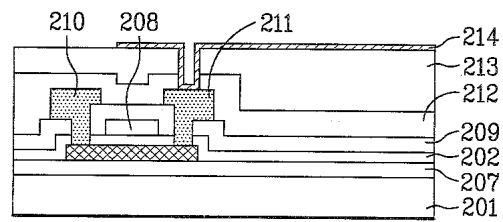
6d



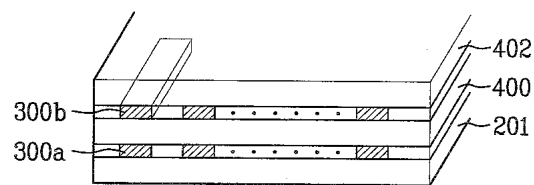
6e



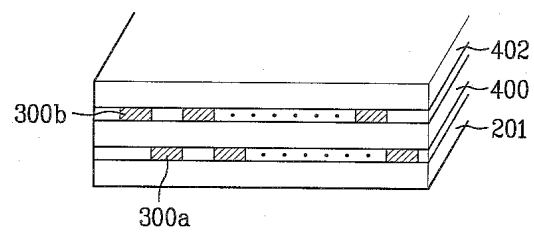
6f



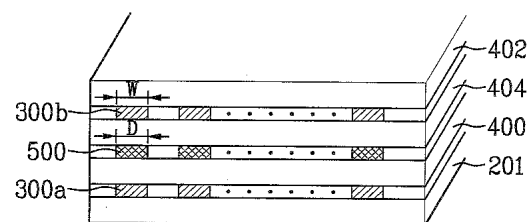
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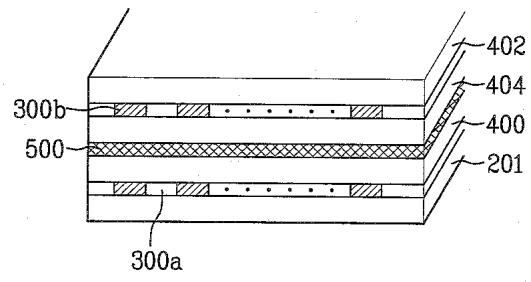
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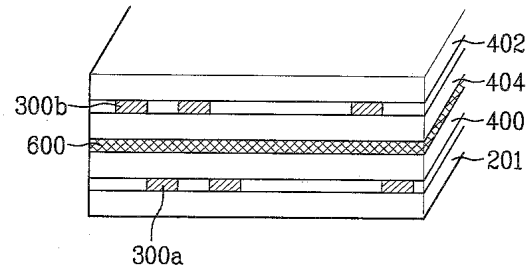
9



10



11



专利名称(译)	液晶显示面板		
公开(公告)号	KR1020040016222A	公开(公告)日	2004-02-21
申请号	KR1020020048490	申请日	2002-08-16
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	HONG SOONKWANG 홍순광		
发明人	홍순광		
IPC分类号	G02F1/1362 G02F1/1345		
CPC分类号	G02F1/1345 G02F1/13454 G02F2001/13629		
代理人(译)	金勇 新昌		
其他公开文献	KR100493381B1		
外部链接	Espacenet		

摘要(译)

本发明涉及最小化附加表面的LCD面板，将LCD面板中使用的电路形成多个垂直层并且被浪费。并且，对于指示图像的显示面板区域，包括形成在多条栅极线和数据线上的像素电极以及其中显示面板区域形成彼此垂直方向以便限定每个像素区域的每个像素区域。LCD面板包括布置有多条布线的布线区域，用于授权显示面板区域中的每个信号。布线区域在间隔中插入绝缘层，并且LCD面板由形成有垂直结构的至少2个布线层制成。它布置在相同位置，相同位置的布线层是相邻层。并且每层的布线层被分类为用于信号转换的信号转换和接地线层的布线层。

