

(19)
(12)

(KR)
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G02F 1/1335

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(11)
(24)

2005 01 24
10-0467944
2005 01 14

(21) 10-2002-0041289
(22) 2002 07 15

(65)
(43)

10-2004-0007999
2004 01 28

(73) . 20

(72) 302

(74)
:

(54)

1 가 , 가 ;
2 , 가 , ;
; 가 , 가 , ;
가 , 가 , ;
가 .

5e

1
2a 2g , 3a 3g

4
5a 5g , 6a 6g

100 : 110 :

112 : 1 114 :
 116a : 116b :
 116 : 118a : 1
 118b : 2 118 :
 120a : 1 120b : 2
 120 : 122a : 1
 122b : 2 122 :
 124a : 1 124b : 2
 124 : 126a : 2a
 126b : 2b 126 : 2
 132 : 136 : P : T :

가

가가 가

가

(Thin Film Transistor ; TFT)가
 (AM-LCD ; Active Matrix Liquid Crystal Display)가

가

1

(2, 4)

(2, 4)

(6)

(4)

(1)

(8)

(8)

(9)

(9)

(8)

(11a),

(11b)

)

(11)

(11)

(13, 15)

(13, 15)

(11a)

(ch ; channel)

(8),

(11),

(13, 15),

(ch)

(T)

(8)

1

1

2

(13)

(P)
(T)

(17) 가

(19)

(P)

(17)

(15)

(21)

(2)

(1)

(21)

(23)가

(23)

(T)

(27)가

(27)

(6)

가

(29)

(23)

(2, 4)

(6)

(2, 4) 가

(31)

(2, 4)

(33)가

(31)

(2, 4)

(6)

7%

가 가 (battery)

가 /

가 PDA(Personal Digital Assistant) 가

가

가

가

가

2a 2g, 3a 3g
2a 2g

(active area)

3a 3g

(deposition)

(coating),

(photolithography),

(etc

hing)

2a 3a (1) 1 1 (10) 1
(12)
2b 3b (10) 1 (12) 1 (10)
(14) (a-Si) (16a) (n+ a-Si) (16b)

2c 3c 2 3 (16)
(18, 22) (18) (20) 1
12) (10), (16), (14) 2 (24) (T)

2d, 3d (10), (16), (T) 2 (24) 1, 2, 3 (25, 26, 28)
8) 2 (24) 1 (30) 2 (24) 2, 3 (26, 2

2e, 3e 1 3 (T) 3 (28) 2 (34) 가 3 가
5 3 (28) (24)가 가 (32)

1, 3 (25, 28) (SiNx) 2 (26) BCB(benzocyclobutene)
(32) (T)

3 (28) 2 (26) (32) 4 (36) 6
2f 3f 1 (30) (22) (38)

4 (36) 1, 3 (25, 28) (32) (Galvanic) (38)

2g 3g (P) 7 (22) (40) (38)
(P) (32)

가 가 / 가 가 가

24) , (120) (124) (I) 5 μm ~ 7 μm , (120) (113)

(short) (C ST) (114) (113)

(113) 가 (120)

(121) (121) (125)

가 5a 5g , 6a 6g

5a 5g , 5a 5g , 6a 6g

5a 6a , (100) 1 1 (110)

1 (112)

5b 6b , 1 (110) 1 (112)

(114) , (116a) , 2 (110)

(116) (116b)

(114) 1

5c 6c , (116) 2 3

(116) (118) (120) , (118)

(122) , (P) (124) , 1 (112)

2 (126) (110), (116), (118, 122) (T)

2

(Mo), (W), (Ni), (Ti)

(118, 122) , (120), (124), 2 (126) 1,

(118a, 122a)(118b, 122b), 1, 2 (120a, 120b), 1, 2 (124a,

124b), 2a, 2b (126a, 126b) , (124) 2 (120)

(124b) (118, 122) (120)

(124)

5d 6d (T) 2 (126) 1, 2 (128, 1

30) , 4 (126) 1, 2 (128, 130) (134) (122)

(132) 2 (126) (134)

1 (128) 가 , BCB , 2

(130) 가 ,

5e 6e , 5 (132) (

122) (136) (P) (136) (124)

(P) , (136) (124)

(136) (T)

1. 1 , 가 ; 1 ;
 2 , 가 ;
 , 가 ;
 2 ; 2
 가 , ;
 , 가 2

2. , 가 (Al)

3. , (AlNd)

4. , 5 μm ~ 7 μm

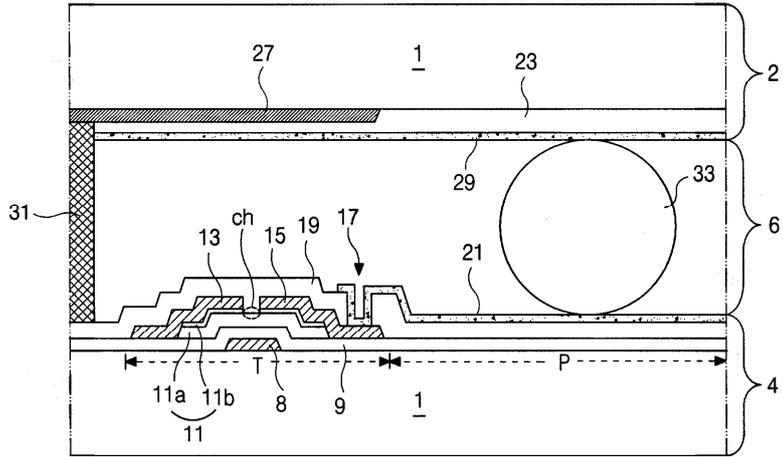
5. , 1 , 1 2 , 2 (Cst)

6. , 2 가

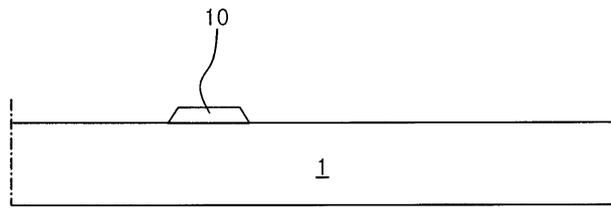
7. PR(photo resist)

1 , 1 1 , 1 ;
 1 , ;
 가 2 ;
 3 , 2
 가 ;
 2 , 4 가 2 , ;
 2 , 5 가 ;

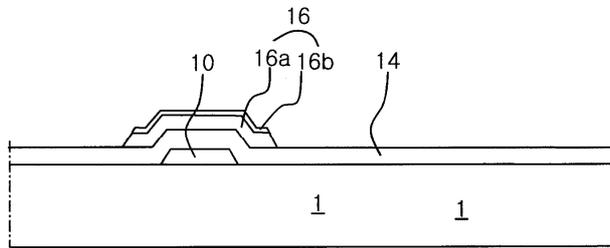
1



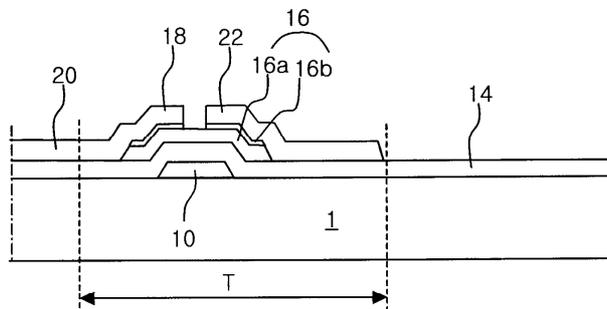
2a



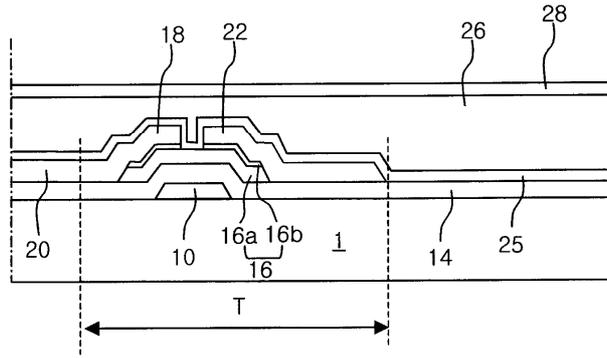
2b



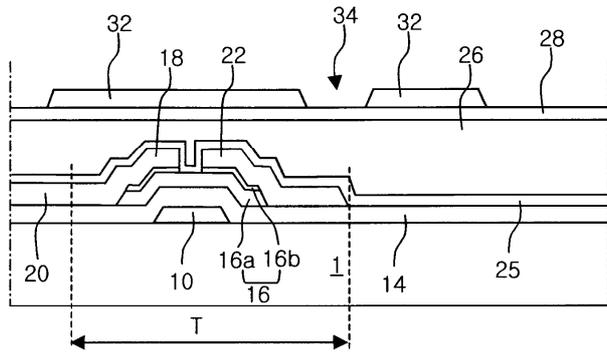
2c



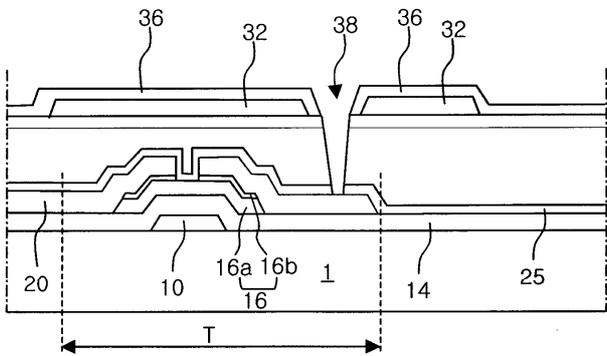
2d



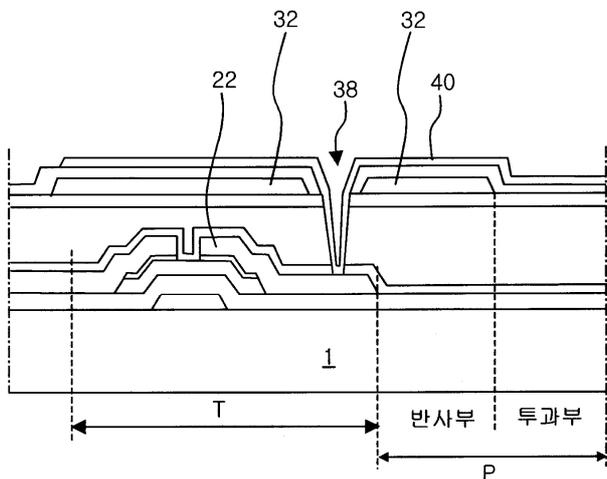
2e



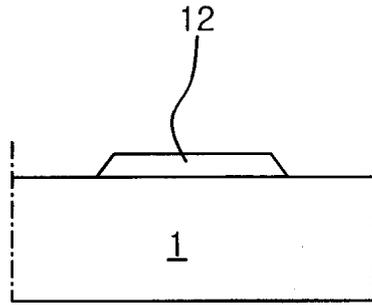
2f



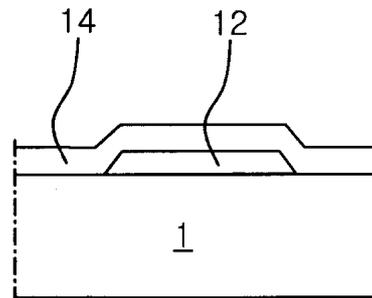
2g



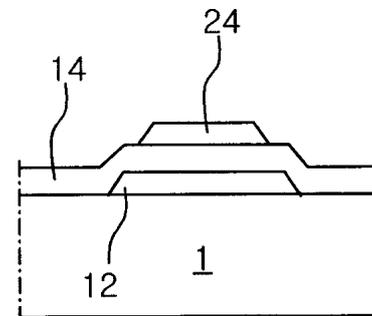
3a



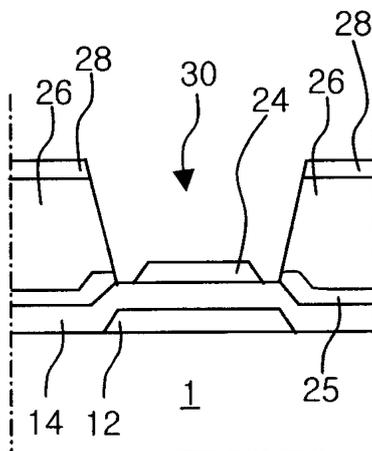
3b



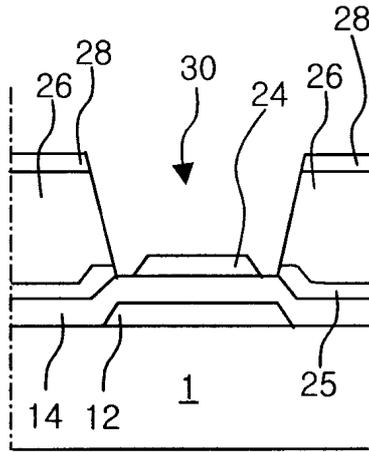
3c



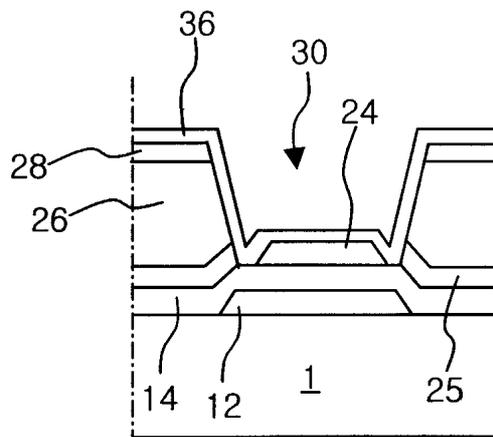
3d



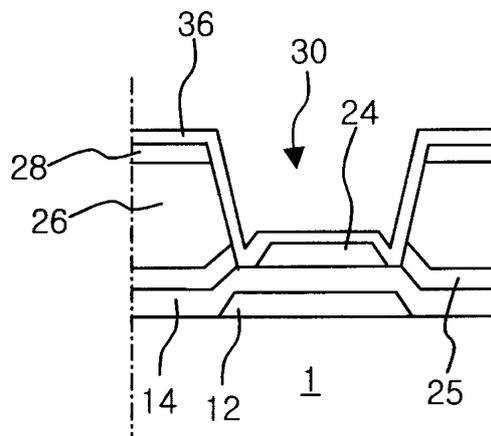
3e



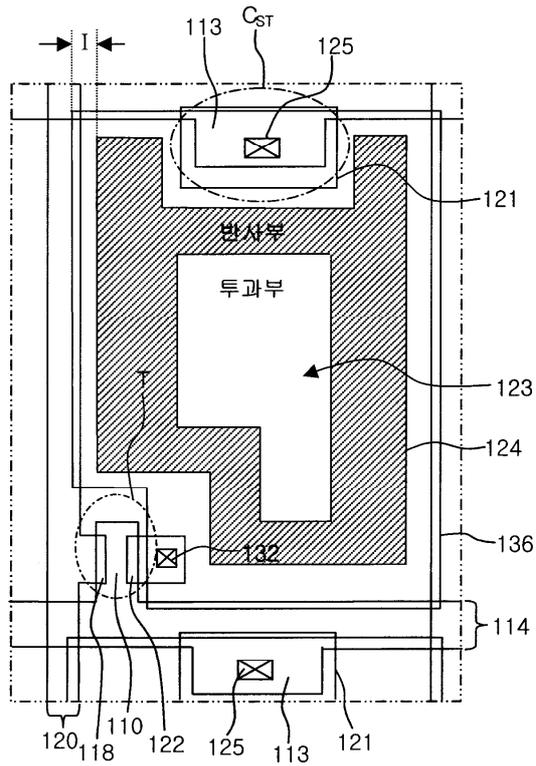
3f



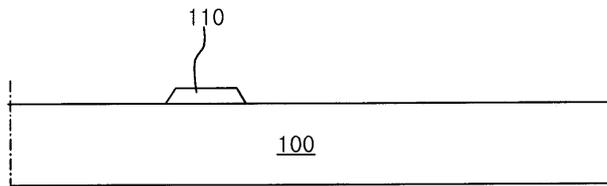
3g



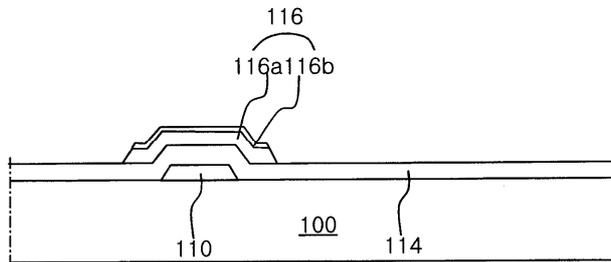
4



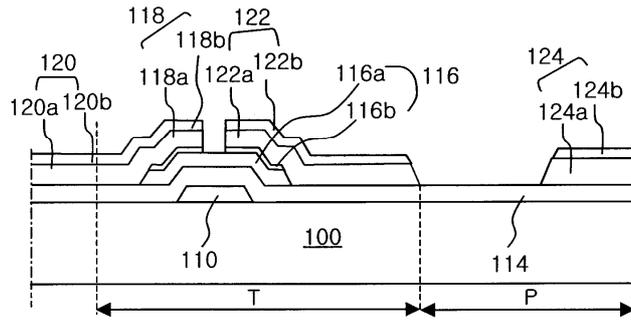
5a



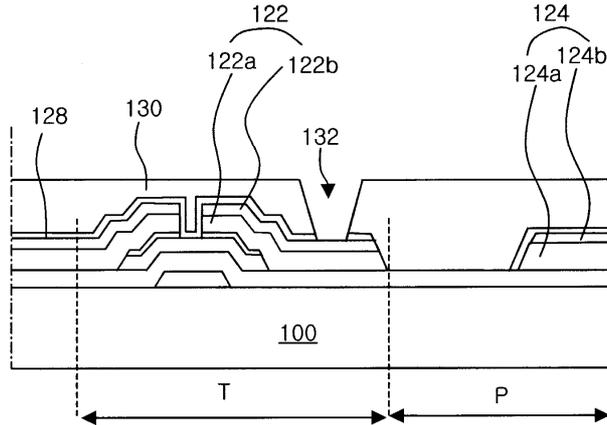
5b



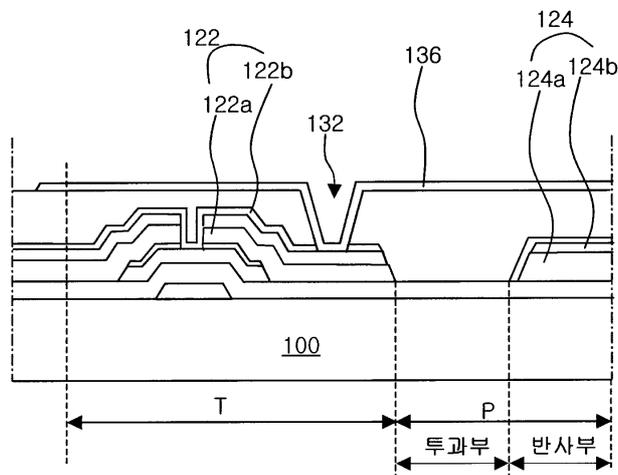
5c



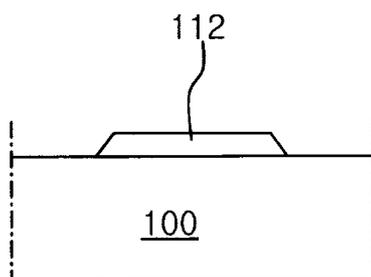
5d



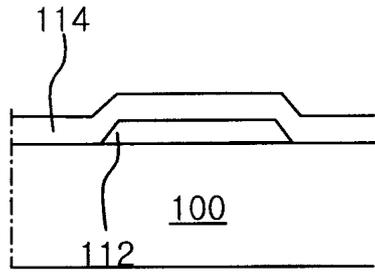
5e



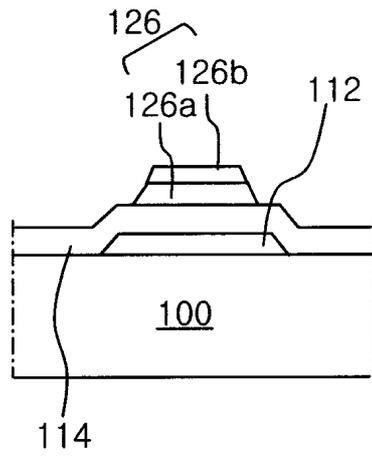
6a



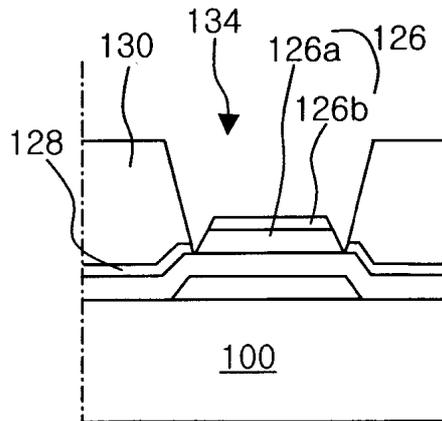
6b



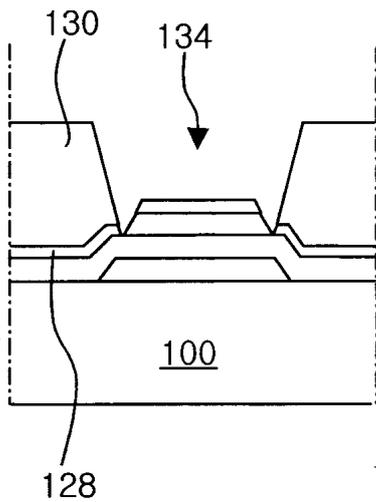
6c



6d



6e



专利名称(译)	透反液晶显示装置及其制造方法		
公开(公告)号	KR100467944B1	公开(公告)日	2005-01-24
申请号	KR1020020041289	申请日	2002-07-15
[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	KIM HONGJIN		
发明人	KIM,HONGJIN		
IPC分类号	G02F1/1362 G02F1/1335 H01L21/336 H01L29/786 G02F1/1368		
CPC分类号	G02F1/136227 G02F1/133555 G02F2001/13629		
其他公开文献	KR1020040007999A		
外部链接	Espacenet		

摘要(译)

一种用于半透半反液晶显示装置的阵列基板，包括：基板上的栅极线；与栅极线，栅极线和数据线交叉的数据线限定了具有透射部分和反射部分的像素区域；栅极线连接到栅极线；源电极和漏电极在栅电极上彼此隔开，源电极和漏电极彼此间隔开，源电极连接到数据线；反射层，具有与源电极和漏电极相同的层，反射层设置在像素区域中并具有对应于透射部分的透射孔；像素电极连接到漏电极，像素电极设置在像素区域中，其中源电极和漏电极以及反射层具有多层金属，其中多层的顶层包括反射金属材料。

