

(19)
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(A)(51) 。 Int. Cl. ⁷
G02F 1/1335(11)
(43)2001 - 0083416
2001 09 01(21) 10 - 2000 - 0006653
(22) 2000 02 12(71) .
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20(72) 2 1027 - 3
313 - 1 212 - 807(74)
:

(54)

가 1 ;
2 ; 1, 2 가 , ,
; 가
;
.
.

5d

1 TFT - LCD .

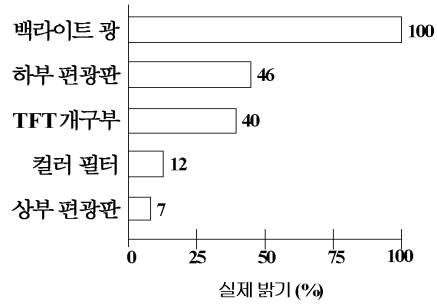
2a 2d 1 - .
 3 2d A .
 4 .
 5a 5d 4 - .

100 : 102 :
 110 : 112 :
 114a : 114b :
 120 : 130 :
 150 : 152 :
 154 :

가 , (display) 가
 (cathode - ray tube ; CRT)
 (flat panel display)
 (Thin film transistor - liquid c
 rystal display ; TFT - LCD)가 .
 TFT - LCD , (pixel)가 ,
 film transistor ; a - Si:H TFT)가 가 (amorphous silicon thin
 가
 TFT - LCD
 , TFT - LCD 3 8% .

45%, 27% 가 TFT - LCD 94%, TFT 7.4% . 1 65%,

[1] TFT - LCD



FT - LCD TFT - LCD 가 , 가 (battery) T

가 , 가 TFT - LCD 가

TFT - LCD

TFT - LCD (back light) (TFT arra y substrate), (color filter substrate)

TFT - LCD 1 , (2) M + 1 (overlap)

(16) (12) (10) (14) (14)

(10) (10) (20)가 (20) 가 ,

(10) (20)

1 - 2a 2d

2a 1 (patterning) (12) .
 (Al), (18) (Ti), (Sn), (W), (sputter) (Cr), (Mo),
 (Cu) .

2b .
 (18) (30)
 (32) . (active layer)
 .
 , (32) (12, 14) .
 , (18), (30), (32), (12, 1
 4) .
 , (12, 14) , (34)
 .
 , (34) (34)가 , (34)
 . (34) 2 .
 (30) (SiN_x) (SiO₂) .

2c 2b (34) (34)
 (34)가 , (34) 2 (34a)
 .
 (34) , (14) 가 2 (34a) (16)
 .
 , (34) (20) 2 (34a) .

2d (10) (10) (14)
 (16) .
 , (10) (34) (20) ,
 .

3 TFT - LCD , (20) .
 (10) 가 .
 TFT - LCD 가 .
 , (10) , .
 (34) (20) .
 , (14) (10) 가 가 .

(34) (20) , 가 가

.

-

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;

가 1 ; 2 ; 1, 2

가 , , , ; 2

; 가 , , ; 1, 2

가 , , .

,

4 (100) (100) / , 가 (102) (100)

, (112) (110) , (102)

, (112) (114a) , (114a)

, (114b) (130) , (130) (114b)

(120) (114b)

(114b) (110) (100)

.

, 가

.

, (120) (114a) (114a)

(114b)

, (114b) (114b) (130) , (130)

(114b) (120)

, (114b) (130) , (120)

가

, (114b) (130),

5a 5d 4 -

, 5a (1) 1 (102), (150), (152)

(150) (SiN_x) (SiO₂)

, (152) 가 ,

, n⁺

5b 2 (112, 114a) (114a) (114b)

(112, 114A) (152), 2 (112, 114a,

114b) (154)

(154), , BCB(benzocyclobutene),

3

, (154) (112, 114a) (152)

,

5c (154) (130)

(154) (130) (114b),

(154) (114b),

, (130) (154) (154) 가 ,

가

5d (130) (154) 3 (120)

(120) (154) (130) (114b)

(120) (114a)

, (120) (114a) (154) (130)

, (130)

가 " "

가

(57)

1.

;

가

1 ;

2 ;

1, 2 ; 가 , , ,

, ;

가 ,

.

2.

1 ,

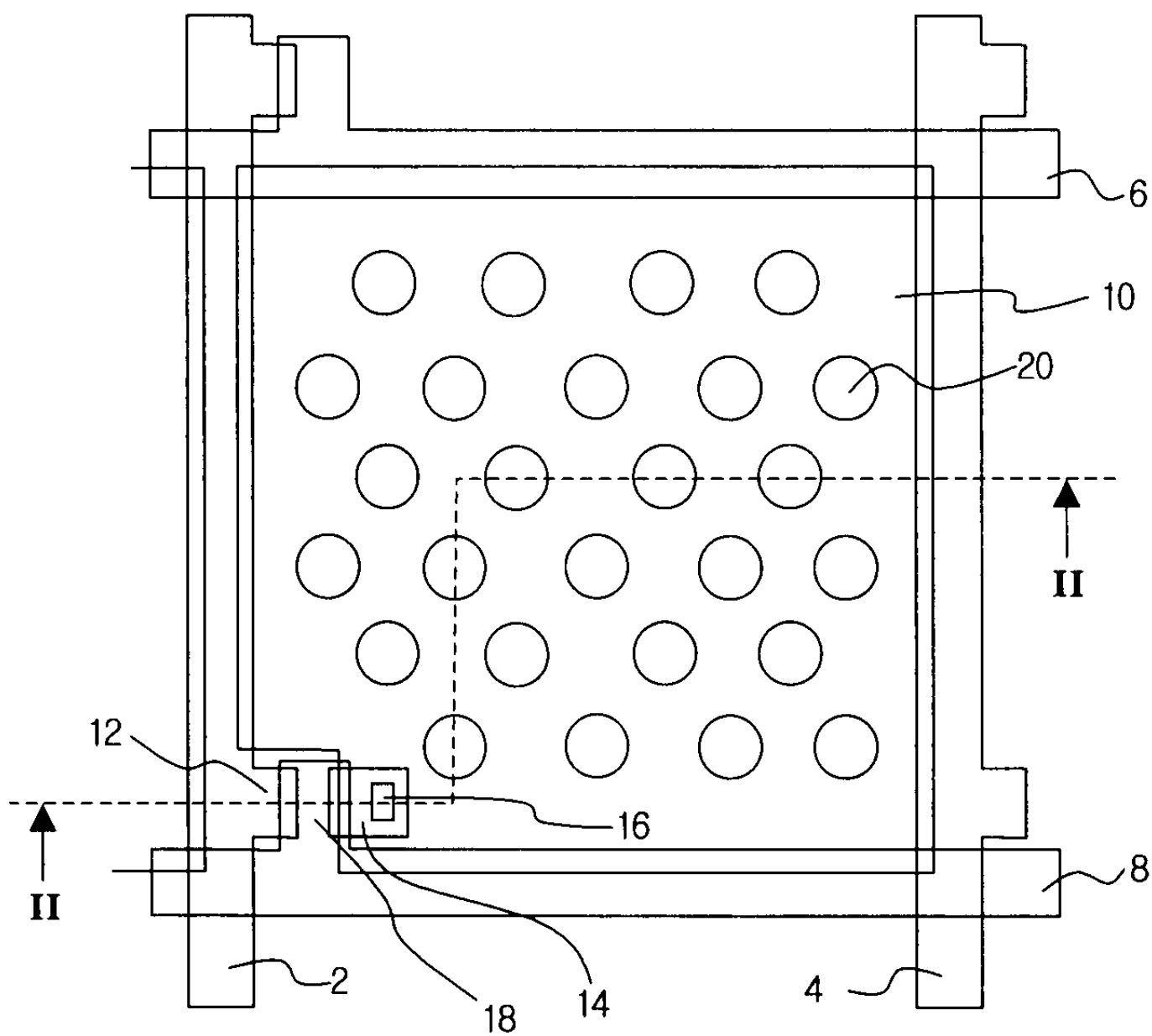
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3.

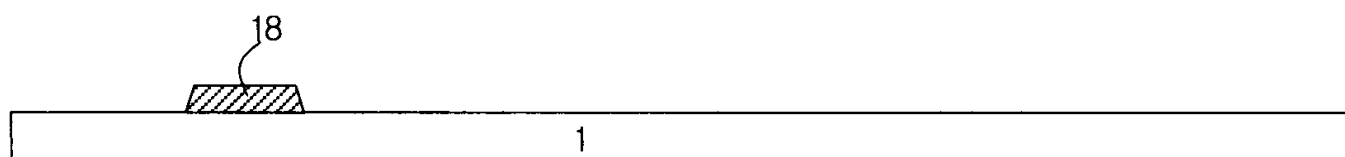
1 ,

.

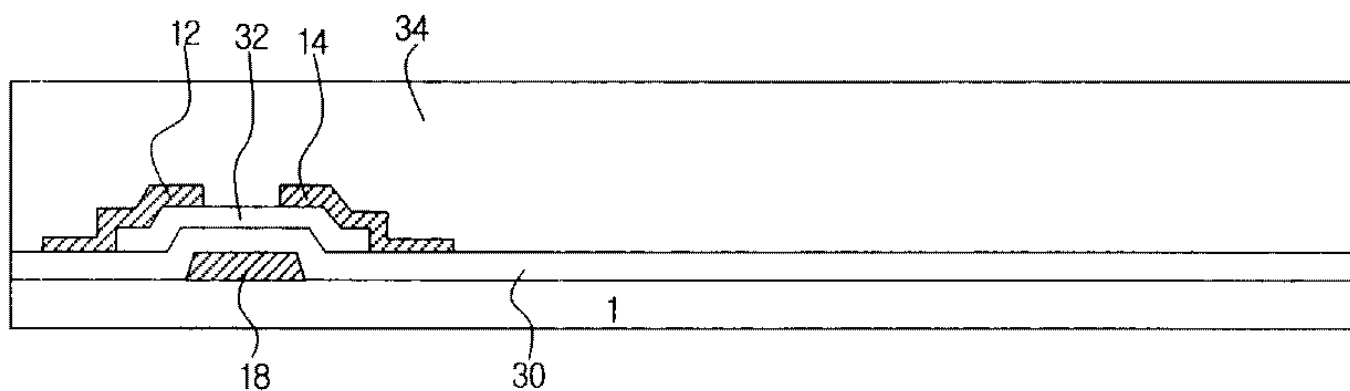
1



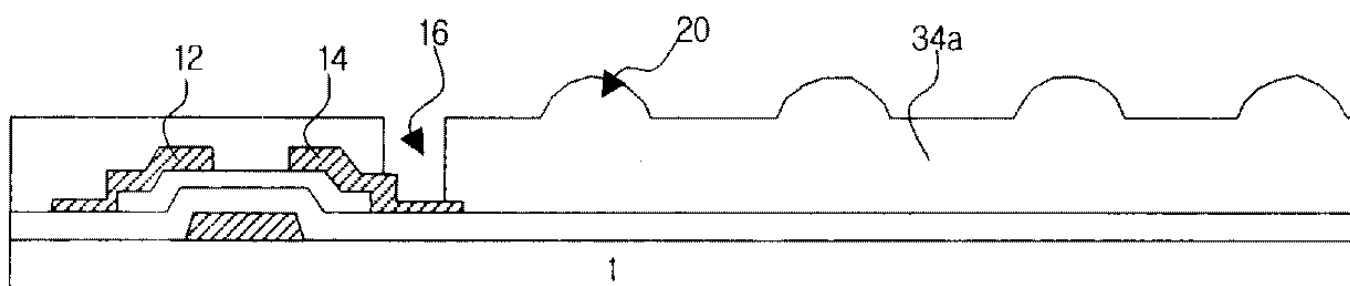
2a



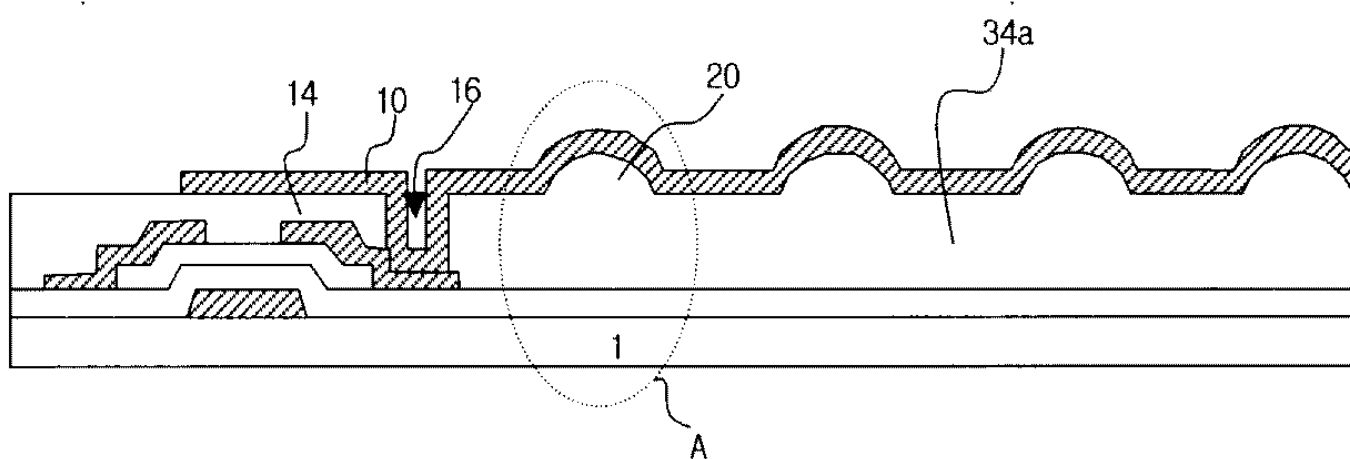
2b



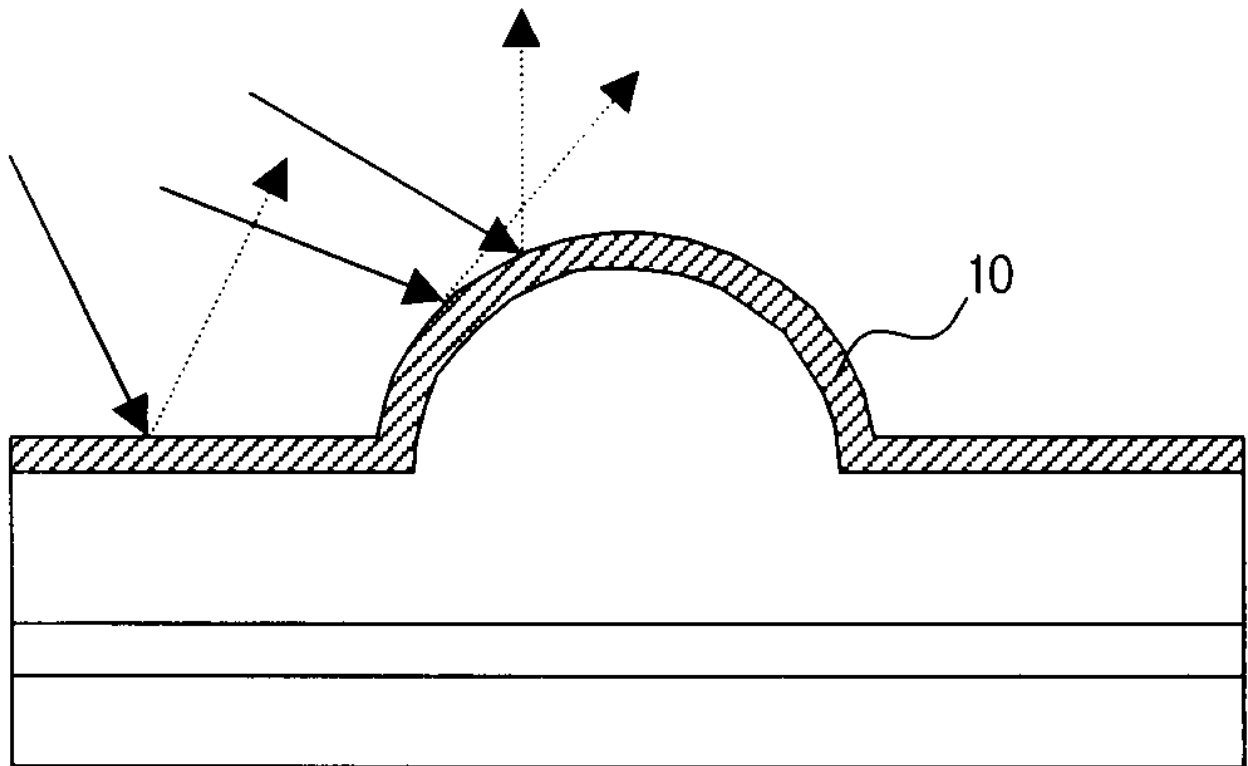
2c



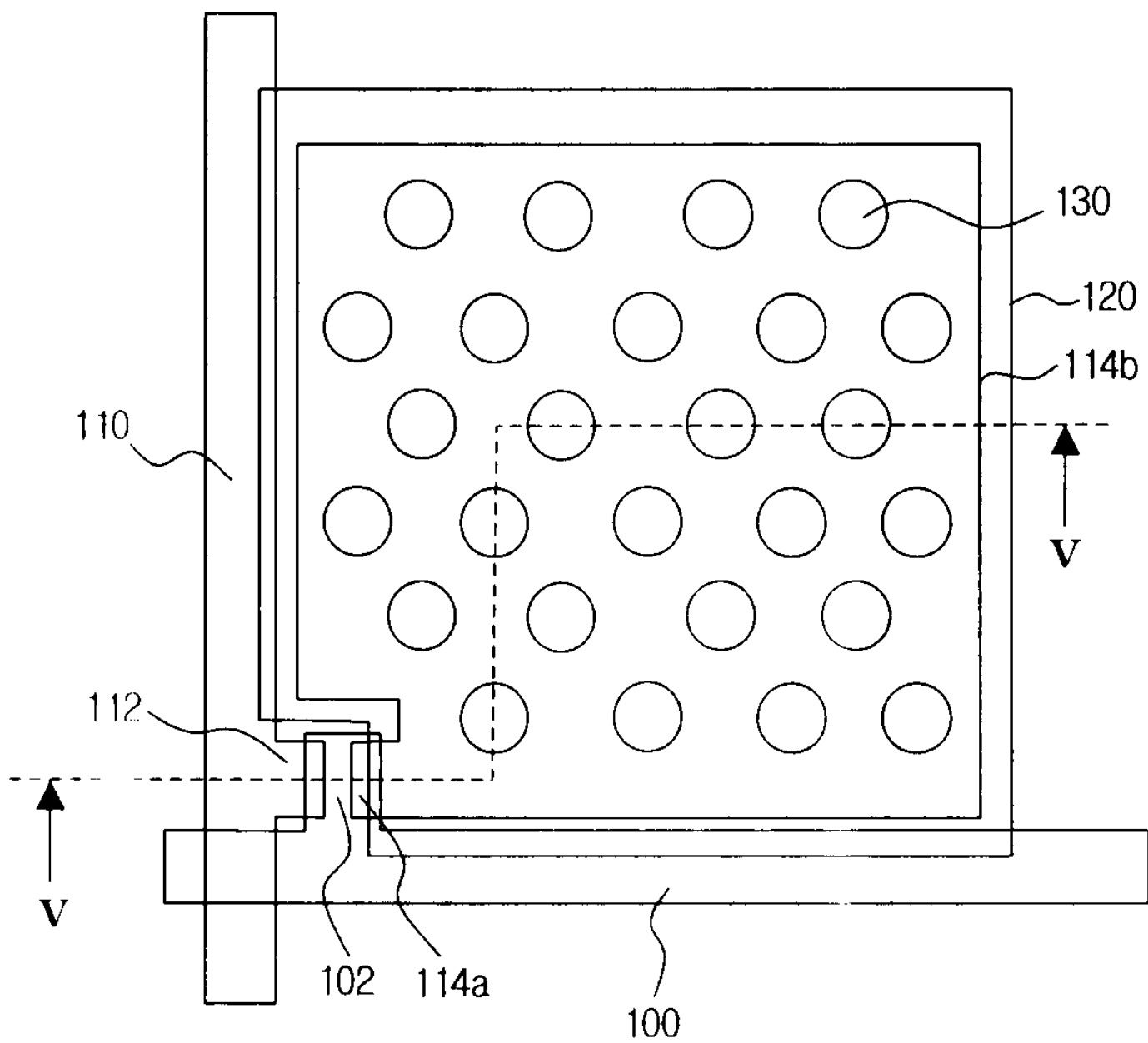
2d



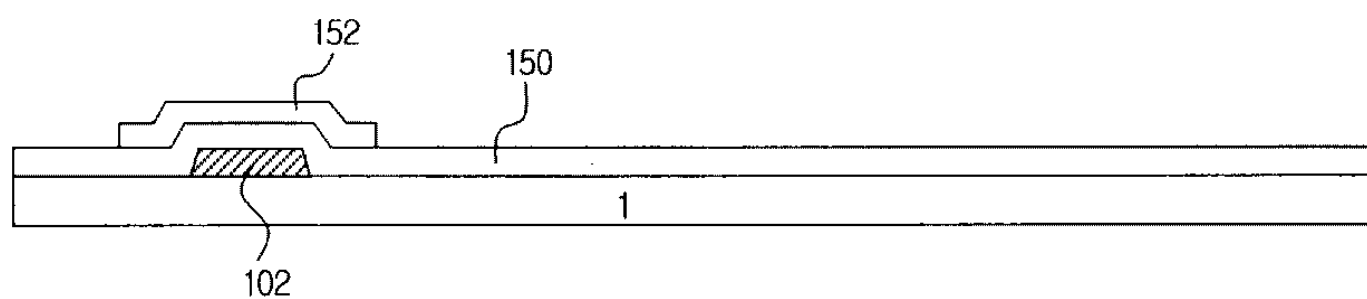
3



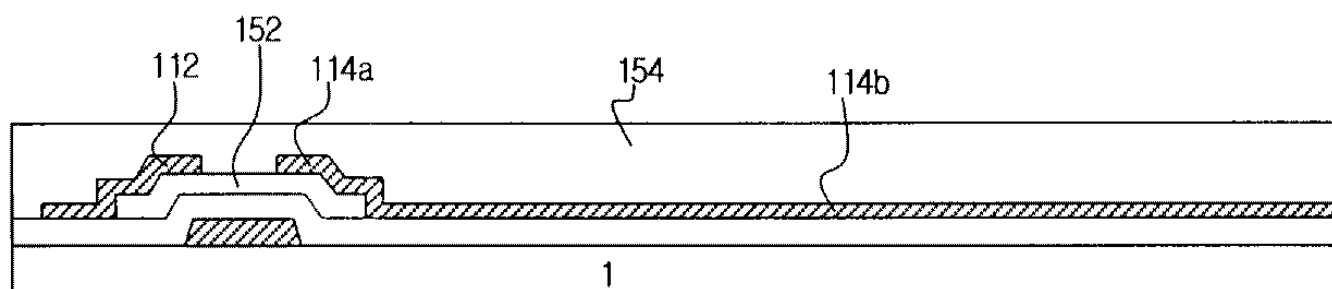
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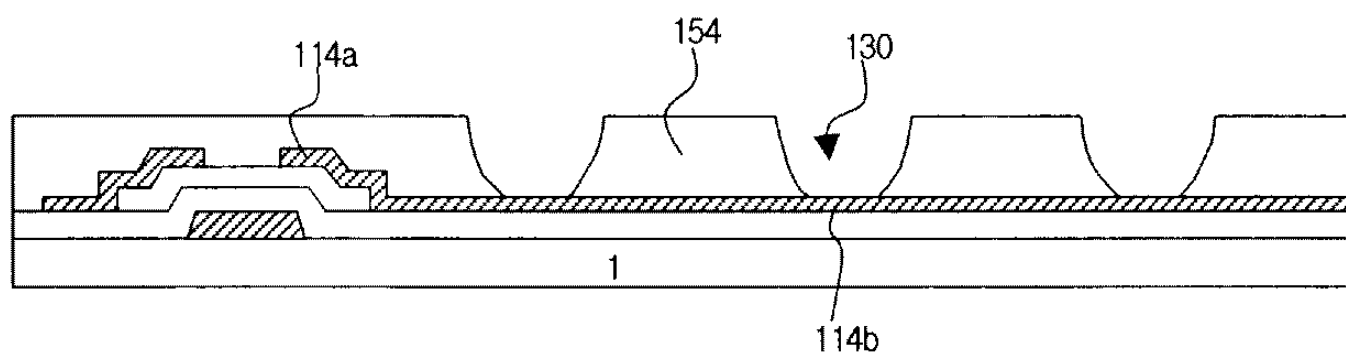
5a



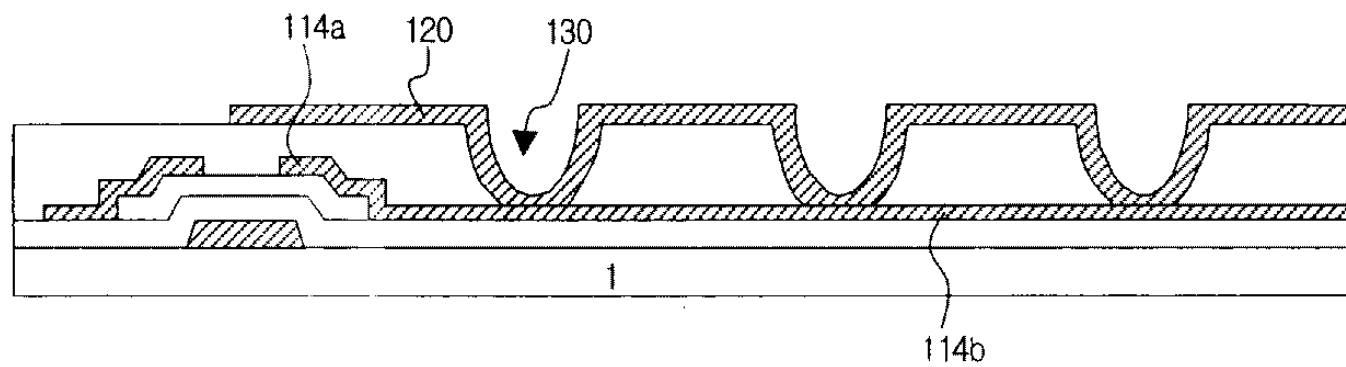
5b



5c



5d



专利名称(译)	反光液晶显示器		
公开(公告)号	KR1020010083416A	公开(公告)日	2001-09-01
申请号	KR1020000006653	申请日	2000-02-12
[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	BAEK HEUM IL 백흠일 KIM YONG BEOM 김용범		
发明人	백흠일 김용범		
IPC分类号	G02F1/13 G02F1/1362 G02F1/1343 G02F1/1335		
CPC分类号	G02F1/133553 G02F1/134336 G02F1/136227		
其他公开文献	KR100603851B1		
外部链接	Espacenet		

摘要(译)

本发明公开了一种反射型液晶显示器的阵列面板，包括形成在基板的开关域上的薄膜晶体管，第一布线沿像素区域的交叉方向的边界延伸，第二布线沿边界延伸。包括像素区域的纵向，以及围绕第一和第二布线中的信号施加的源电极，漏电极和栅电极，形成在像素区域上的辅助电极在漏电极中延伸，并且反射电极沿着通孔表面与辅助电极接触，它与具有多个孔的保护膜绝缘。关于衬底，定义像素区域和切换域。关于反射电极，辅助电极的一部分暴露于辅助电极和内部。

