

(19)
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(21) 10 - 2001 - 0042993
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(73) .
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(72) 1027 - 15

(74)
:

(54)

(active channel)

(leakage current)

(TFT)
(aperture ratio)

6d

, (active channel) (active layer) (a - Si:H)
 , 가 , 가 .
 , 가 가 .
 , 가 가 .
 , (black ma
 trix) 가 .
 , 가 .
 , 가 .
 , 1 1 .
 , (2) (4) (8) (12) (14)
 (T)가 .
 (T) (BCB) (Acryl) (resin)
 (SiN_x) (SiO₂)
 (16)
 (16) (14) (18) .
 (16) (18) (14) (20) .
 (20) .
 , 1 (20) (T)
 .
 (T) (20) (12) (14)
 (CH) , (T)
 (brightness) .
 , (20) 가 , (20)
 (dual gate) 가 .
 가 5,500,750 .
 , 2 2 .(
 1 .)

, (20) 2 , (22) (CH) (T)

, (CH) 2 (20) (14) (20) ,

, 4μm 가 .

, (CH) 가 4μm 가

, (floating)

; , ;

2 ; 가 2 , 1 ; 가 2 ;

; , ;

-- --

, , ,

, 3 , 4
3 -
3 4 .(

3 4 (100) (10
4) (116) , (P) .

(104) (116) (T)가 .

(T) (102) , (102) (108)
(108) , (108) (112) (1
12) .

, (102) (104) , (112)
(116) .

(T) (118) , (126) .

(126) (floating) , (P) (114) (L
1) .

(126) (T) (CH) .

, (T) (118) ,
(T) (126) .

, (126) (112,114)
가 .

(126) (128) (P) (130) ,
(130) (114) .

(CH) (K) .

, (104) (116) .

가 .

, (114) (130) (CH)

(126) (130) 5

5 가 .(5 4 .)

(114) , (130) , (130) 가 (130) (126) 가 (126) (114) (126)

E,F) . (E,F) (CH) (102) 가 가 (112,114)

, (130) (108)

, 6a 6d

, 6a (Mo) (102) , (100) (Al)/ (Cr)((Al), (Mo)) (AlNd), (W), (Cr), (102)

, (102) (104)

(102) RC (delay)

hillock) 가 , , (

, (104) (100) (SiN_x) (SiO₂)

, (106) (BCB) (Acryl) (resin)

, (102) (106) (a - Si:H) (1

08) (active layer) ayer) (n+a - Si:H) (110) (ohmic contact I

, 6b , (110)

16) , (112) (114) , (112) (1

, (116) (100) (118)

, (118) (112) 1 (120)

, (P) (A) (118) (122)

, 6c (AlNd) , (120) (122) (100) (Al)

0) 1 (L1) , (P) 2 (L2) (126) (12

(126) (CH)

, 6d , 3 (128) (126) (100)

114) , 3 (128) , (120) (

, (122) 3 (128) .

, (A) (106,118,128) 가

O) 3 (128) (100) - - (ITO) - - (IZ
(P) () (130) . (114)

, () , (CH)

가
가 .

(57)

1.

;

, , ;

, , 1 ,

;

2 ; 가 ,

2 , ;

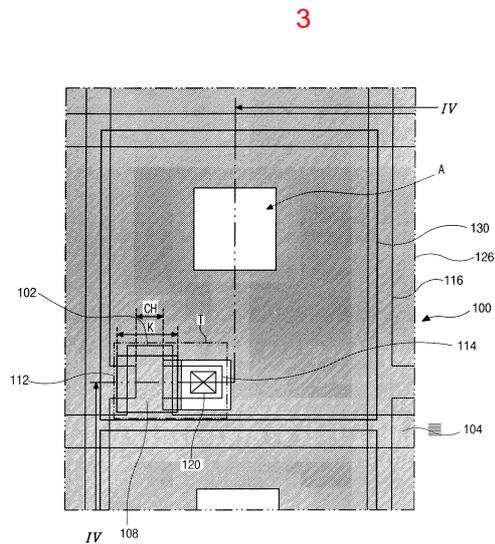
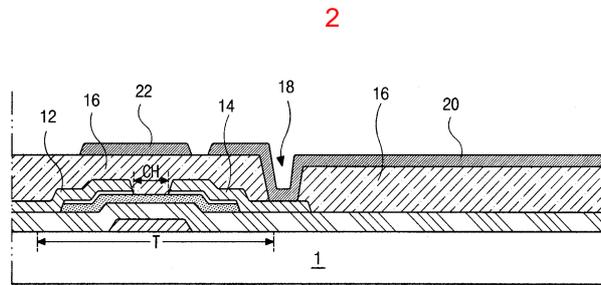
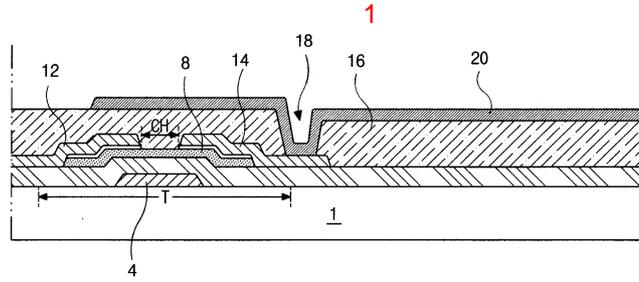
2 ; , 가

2.

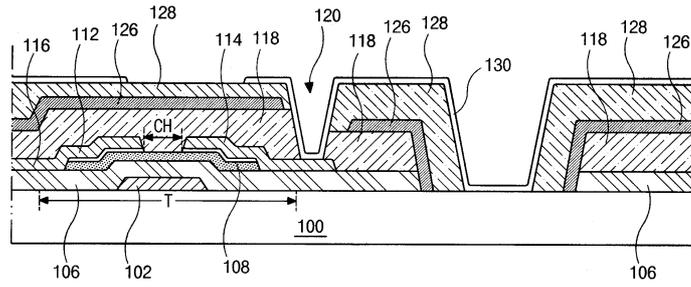
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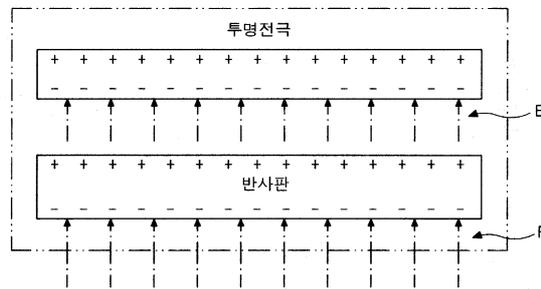
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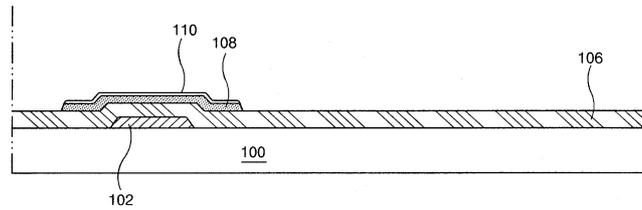
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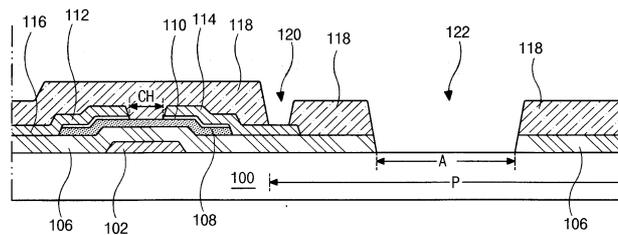
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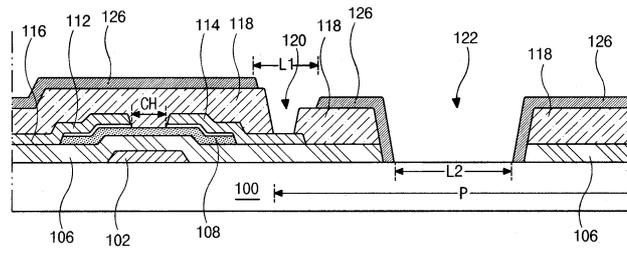
6a



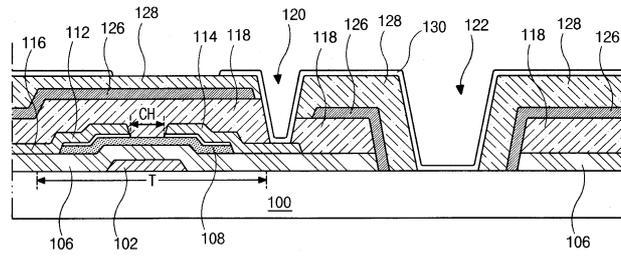
6b



6c



6d



专利名称(译)	一种用于反射透射型液晶显示装置的阵列基板		
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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		
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摘要(译)

在本发明中尤其是，由薄膜晶体管的反射透射阵列基板的（TFT）（泄漏电流）预防的开口率和所述反射型液晶显示装置的阵列基板的有源沟道（活动信道）产生的漏电流（孔径比本发明涉及一种用于改进的阵列基板的结构。详细地，在包括由非晶硅形成的有源层的薄膜晶体管中，为了防止光直接进入有源层并引起漏电流，电浮置反射器在有源层上方延伸。形成。此时，防止与漏电极接触的像素电极与有源层重叠。通过这样做，可以提高开口率并且可以防止由于光电效应引起的漏电流的发生，从而可以提高液晶面板的产量。图6d

