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(21) 10 - 2001 - 0042993
(22) 2001 07 18

(71) . 20

(72) 1027 - 15

(74)
:

(54)

(active channel)

(leakage current)

(TFT)
(aperture ratio)

6d

1 1 ,
 2 2 ,
 3 ,
 4 3 - ,
 5 가 ,
 6a 6d 3 - .
 < >
 100 : 102 :
 108 : 110 :
 112 : 114 :
 118 : 120 :
 122 : 126 :
 128 : 3 130 :

(liquid crystal display device) ,
 (Transflective liquid crystal display device) .

, , 가

가

(back light) ,
 (power consumption) .

() ,

, (active channel) (active layer) (a - Si:H)
 , 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 ;

; , ;

, .

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, ,

, ,

.

, 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) (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) RC (delay)

hillock) 가 , (102) (104) (100) (SiN_x) (SiO₂) (BCB) (Acryl) (resin) (106)

08) (active layer) ayer) (102) (106) (a - Si:H) (110) (ohmic contact I (n+a - Si:H)

, 6b (110) (112) (114) , (112) (116) (100) (118)

16) . (118) (112) 1 (120) (P) (A) (118) (122)

, 6c (AlNd) (120) (122) (100) (Al) (120) 1 (L1) , (P) 2 (L2) (126) (12)

(126) (CH)

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

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 , ;

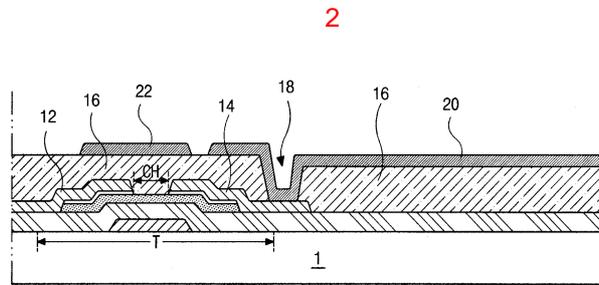
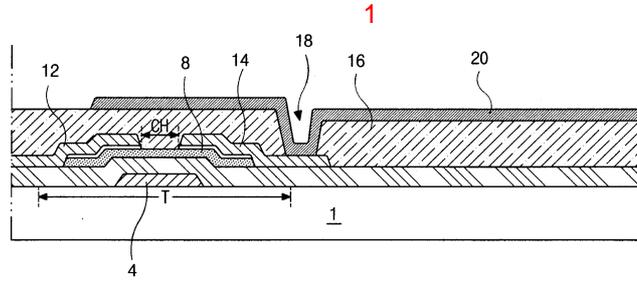
2 ; , 가

2.

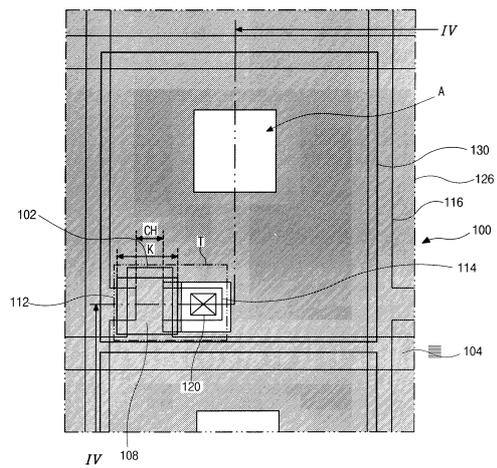
1

(AI)

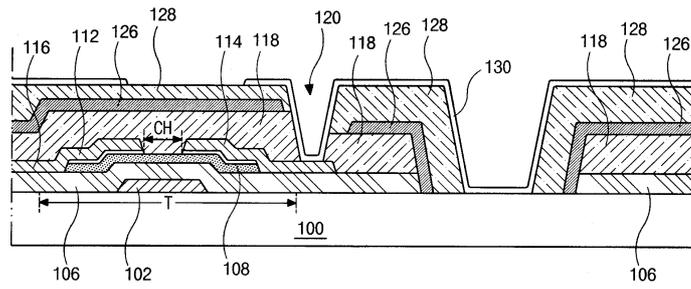
(AINd)



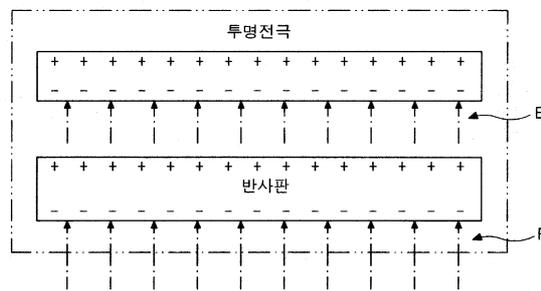
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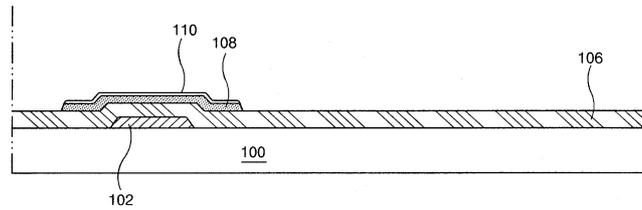
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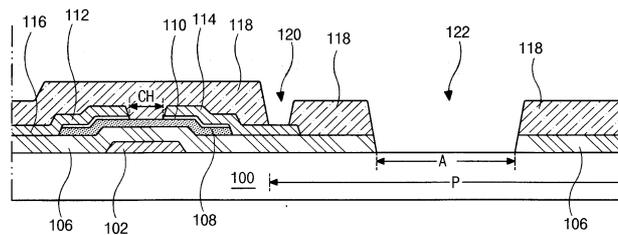
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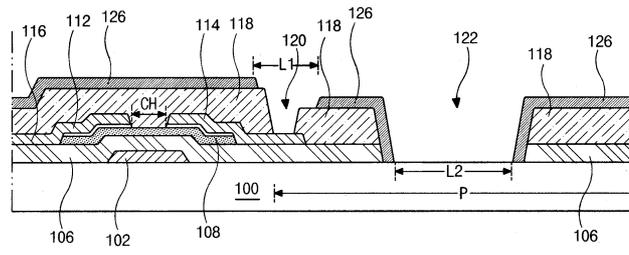
6a



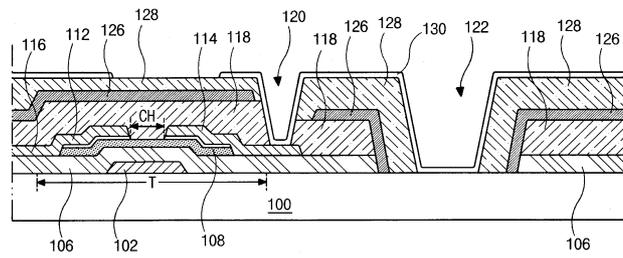
6b



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		
公开(公告)号	KR1020030008380A	公开(公告)日	2003-01-29
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[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		
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外部链接	Espacenet		

摘要(译)

本发明涉及用于改善在半透半反型液晶显示装置中配置的有源沟道中产生的漏电流保护的孔径比的阵列面板的结构，尤其是透射型阵列面板的薄膜晶体管 (TFT) 和阵列面板。如详细所述，为了防止光直接入射到有源层中并引起漏电流，对于包括形成非晶硅的有源层的薄膜晶体管，其电浮的反射器在上部延伸。活动层的一部分，它形成。此时，避免了与漏电极接触的像素电极与有源层重叠并构成。以这种方式，改善了下侧和孔径比。同时，由于通过光电效应防止产生漏电流，因此可以提高液晶面板的产量。

