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(71) 가 가 가 , . 1753

(72) 가 가 가 1753

가 가 가 1753

가 가 가 1753

(74)
:

(54)

(5) (6) , 1/2 (29) (11)
(21a) (6)
(5) (6) ,

4

, ,

1a 1 .

가

1b			
1c			
2		가	
3		가	
4a	2		가
4b			
4c			
5	3		
6	3		
7	3		
8a	5, 6, 7	I-I	
8b	5, 6, 7	IV-IV	
9a	5, 6, 7	II-II	
9b	5, 6, 7	III-III	
10a	5, 6, 7	V-V	
10b	5, 6, 7	VI-VI	
11	4		
12a	11	IV-IV	
12b	11	V-V	
13	5		
14	5		
15	13, 14	I-I	
16a	13, 14	II-II	
16b	13, 14	III-III	
17	6		
18	13, 17	I-I	
19			
20a	1		가

20b

20c

21a 2

가

21b

21c

*

*

5 : 6 :

7 : 8a, 8b, 8c :

9 : 10 :

11 : 12 :

13 : 14 :

15 : 17 :

18 : 19 :

20a, 20b : 21a, 21b :

22a, 22b : 23 : 1

24 : 25 : 2

26 : 27 :

28 : 29 : 1/2

30 :

, 2가 가 , 2가 가 , 가

8a) (27) (26) 가 , (27) ()
26) 가 (13) . 2 (8b) 3 (8c) (6) ()
(5) (13) 가 .

20b (26) (27) 가 (5) ()
6) (21a) (21b) 90 (13) 45 (21a) .

가 (27) (26) 20c (5) 90
. 가 (13) .

(9) (9) (13) 0 (27) ()
(26) 가 , (13) 0 가 .

21b) (9) 90 (13) , 90 ()
, 가 (9) , 90 (5) .

(6) (13) 가 (21a) ()
(0 90) (13) , 90 가 (13) .

가 (13) (21b) , 0 가 (13) (21a) ()
(0 1b)) (13) , 90 (6) 90 (21a) (2)

, 가 (5) , 가 (6) (51) 가 (51) 가
, 21a 가 가 (51)
, 21b (12)
, 21c

21a (5) , 20a (5) ()
21a 가, 20a (9) (7)
, 2 (8b) (10) , (10) (5)
(14) (12) (14) . 21a (6) (12)
(10) . 21a (12)

20a (6) 20b ,
21a 21b

가 (5) 가 , 21c 90
(10) (14) 가 (21b) .

(10) (13) (10) , (13) (13) (rise) .
0 (10) (14) 가 , (13) (13) 가 (13) 가
, (21b) 90 (10) (10) (13) 가
, (10) 90 가 (6) , 가 (6)

20c (5) , 가 (6) , 가 (6)

, (6) , (5) (5)

(6)

가

가

1/2

1/2

90

1/2

90

1/2
90 ± 30

1/2

가

가

가

가,

가

, 1/2

가

/

가

가

가

100%

가

가

가

가 100%

가

가

가 TFT (30) , TFT

가

가

가

가

1

(comb)

가

()

(1)

1

1a 1

(52)

가

(21a, 21b),

(13)

1/2

(/2)

(29)

1b

(12)

1c

가

1a

(13),

(11)

(52)

(40)

(11),

(12),

(11)

(12)

(21a, 21b)

1a

11)

(12)

1/2

(29)

(22a)

(13)

(21a)

21a

21a

(20a, 20b)

0

, 0

가

. 72

(TN)

50%

, 0

TN

100%

2

0

가

n

, dr

(5)

(13)

, df

(6)

(13)

,

(5)

(n x dr)

/4

(n x dr)

3

(6)

(n x dr)

(n x dr)

(5)

, 가

/4, /2

/2,

3

(6)

(13)

(13)

(dr)

/4

, (6)

(13)

(df)

/2

1b (21a) 0 (13) 가 (5) (21a) (6)
 (21b) 90 (13) 45 1/2 (29) 135

(52) 가 (5) 1c

21c (5) (6) (13) 가 (21a)
 0 1/3 (29) (13) 90 (21a)
 (13) 가 90 (13) 0 가
 0 (13) 1/2 (29) 90 (21a)
 0 (13) (21b) 가 90 9

(5) 1 (6) 가

(2)

2 4a 2 (53) (21a, 21b), (13) 1/2 (29)
 , 4b (12) , 4c 가

4a (53) (53) 가 1/2 (29) (53)
 20a (20a, 20b) 1 0
 4b (21a, 21b), (13) 1/2 (29) 1b

(5) 가 (5) 가 20c (53) 가 4c
 1c 가 (5) 가 (6) 가 (6) 가

(6) (5) (6) 가 (5) (6)
 (6) 1 (5)

(3)

1 2 가
 5 10 3 2 5 3 (54) 6
 (7) 7
 (7) IV-IV 8a 5 II-II
 I-I 9b 5 III-III 10a 5 V-V

, 10b 5 VI-VI (7) (26)
(27)

(11), (12) (24) 5 (28) (54) (6)
(5) (13) 8 (54)

8a 8b (17), (17) (12) (22b), (22b) (18),
(17) (18) (19) (13) (22b) (18) (R), (22b) (G), (B)
(15) (22b) (18)

(23) (11) (22a), (28) 1 (5), (30)
30a; 5 () (22a) 1 (23), 1 (30)
(25), (24) 2 , 1 (26) (27) 2 (23) 2
(24) (35) (24) 1 (35) 2

(13) (13) 가

(11) (12) (20a) (20b) ,
, 5 (27) (26) 10 30
(13) 가 , 2

13) (11) (12) () (13) , ()

5 (26a, 26b, 26c, 26d) (11) (26), (24),
(11) (28) , (27) (TFT; 30)

(30) (28) , (30a) (30b) 가 ,
(30a) (30b) (28), (24) (24) (27)

(26) (27) (26) (27) , 2 (24)
(26) 가 2 (27) 2

, 5 7 (6) , (26)
(39b) (39d) (26b) (26d) (5) , (26)
(26) , (26) (26b) 6 7 (27) (24)

9c) 5 , 2 (35) (27) , (3)
(35) (39a)

(28) , (26) (27) (24) (54)
 , (22a, 22b)
 , 6 7 , (26) (27)
 (54) (ITO) (26) (26) (27)

8a, 8b, 9a, 9b, 10a, 10b , (54) 1 (23)
 2 (25) (35) 가 5
 , (35) 1, 2 3 (35a, 35b, 35c) , (6)
 , 1 (35a) , 1
 (26d) (26d) , 2
 (35b) , 1 (26c)
 (26c) , 3 (35c) , 1 2 (35a, 35b)
 (24) , 2 (25)
 (27) , 1, 2, 3 (35a, 35b, 35c) 'l'
 5 , , ,
 (5)
 (54)

1 3 (35a, 35b, 35c) , 1 (23) 2
 , 5 , (30b) 2 (35) (30) (30a)
 (30b) , (30b) (35)

(35) (35)
 , (35) 가 (35) 5 , ,

6 8a, 8b , (6) (5) , (26) , (28) (28) (24)
 (24) (28) (24) (28) (28) (24)

, 8b (28) , (5) , (9) , (28) (24)
 (28) (24)

(26) (9) , (28) (24)
 , (27) (26)

(9) , (9) , TFT (30) , TFT 가
 , TFT (30)

가 (54) (26) (ITO) (54)
 , (54) 가

ITO , 100 / ITO
 (26) (26a, 26b, 26c, 26d)

8a (6) , (26) (24) 2 (25)
 (d/ ; d 2 (25)
 (24) (26) , 8b)
 , (26) (24) 2 (25), 2 (8b), (9) 3 (5)
 c) 2 (24) (24) (8
) (26)

(crosstalk) 가 , (24) (28)
 (17) , (17) (17) (17) (5)
 4) 가 . (17)
 , (54) , (6) (26) (27) 2 (25)
 , (5) (26) (27) 3 (8c) .
 (26) (26) (27) 가 .
 , (54) , (11) 2 (25)
 (6) (5)
 2 (25) 2 2 (8b) (5) ,
 2 (8b) (half-tone) (8b) (9)
 (9) 3 (8c) (6) (27) , (9) 3 (8c)
 ITO 3 (8c) (26) (27) , (20a)
 , (11)
 , 8a 8b (20a) , (13)
 (300) , (26) (27) ,
 (26) (27) (13) ()
 13) (13) (13) 가
 (13) () 가
 , (20a) (26) ITO (27) , ()
 26) (27) ITO (54)
 , (39a) 39d 6 μm 5 10a
 (39a) (27) (35) (9)
 (41) , (39a) (41) (27) ITO ,
 (35) 가 (27) (9) (27) 가
 , 5 10b , (39b) (26) (35)
 , 10a , (9) 가 (26)
 (39b) , (39b)
 , (39a) (27) ITO ,
 가
 5 9 , (6) (39c, 39d) (27) (35)
 , (26) (26d) (39c, 39d) ITO
 (39b) (27) 가 (26) ITO

(4)

4 , 1 가 11, 12a
 12b , 3 4 (5) (6) 3 . 11 4
 (55) , 12a 11 IV-IV 12b 11
 V-V .
 12a (5) , ITO (14) (12) (20
 b) (19) . (11) (9) , (10) (10) ,
 가 (22a) (10) (11) . , (10) ,
 12b , (39a) (10) (35)
 . , 3 (39a)
 (10) ITO , 가 .

(5)

3 , 5 , 2 , ,
 . 5 , 5 3
 13, 14, 15, 16a 16b . 13 5 (1
 27) (56) , 14 (126)
 , 16a 13, 14 II-II 15 13, 14 I-I
 16b 13, 14 III-III
 .
 13 14 , (56) (124) (128)
 , 15, 16 , (56) 5
 (112), (113) , (112) , (111),
 (126) / (127) (113) (dr) , (111),
 (111) (126) (127) (111) (112) ,
 (113) (df) . , (111) (126) (111) (127)
 , (111) (126) (112) 5 3
 (12)
 5 (111) , (122a) 2 (125)
 , 5 3 (11) (122a), (122a) (128)
 . , (111) 1 (123), 1 (123)
 (124) 1 , 1 2 1 (125) 2 (125) , 2
 (125) 2 5 2 . 15 (105) , (105)
 (106) 2 (125) . (105) (108) ,
 (108) , (126) (127) .
 (126) (127) (120a) (120a) ,
 (106) (120a) 2 (125) . 14 , (126)
 (127) (105) (106)
 (105) (106) .
 3 13 14 , (56) (111)
 (124), (126) (126a, 126b),
 (127) , (111)
 (128) (130; TFT) .
 , (126) (127) ,

(127) (126) (127) , 가 (126)

(56) (105) (106)

(56) (108) (125) (108) 3 2

(108) 2 2 1

(127) (108) (139a) (139b) (126)

5 (139a, 139b) , 6 μm 1

3 16 (139a) (127) (135)

(126) (139b) (126) (126b) (139a, 139b)

(120a) (111) 가

(6)

5

6 6 3 5 (57)

6 17 18 (56) 6 6 (

111) 2 5 (125) 5 6 6 (

(112) 5 17 , (

227) (126) (107) 18 13 1

7 I-I , 6 5 , 5

17 18 (57) (126)

(108) 가 5

(126) (227) , , 2

(126) 가 2 2

(227) 18 (227) 6 6 (108)

(227) 5 (227) 5 6 (124) , 6

(128) (122a, 122b) (124) (12

6) (227) , (122a, 122b)

17 (124) (126) (128) (124) (124) (128)

(124) (128) (124)

(126) (126) (124) (128)

가 (227)

가 (124) (128)

(57) 가 (117) (128)

(126) (57) (126) (126) (227) (227)² (125) 가 5

(7)

7 , 1 6 가 ,

2 , 가 90% 가 15

4 3 9) , 90% 가 (/4) x(1±0.2

가 2 x(/4) x(1±0.29) 0.55µm , 0.098µm 0.178µm (/4) x(1±0.29) 0.195µm 0.355µm , 2 x(/4) x(1±0.29)

1/2

가

3

가

4

가

(57)

1.

;

;

1/2 ,

가 ,

.

2.

1 ,

,

.

3.

1 ,

,

.

4.

1 ,

,

.

5.

3 ,

가 ,

가

6.

3 ,

,

7.

1 ,

가 ,

,

8.

1 ,

가 ,

9.

7 ,

,

.

9 10. , , 가 ,

9 11. , , 가 ,

9 12. , , 가 ,

7 13. , , ,

7 14. , , ,

13 15. , , ,

13 16. , , 1 ,

4 17. , , 15 ,

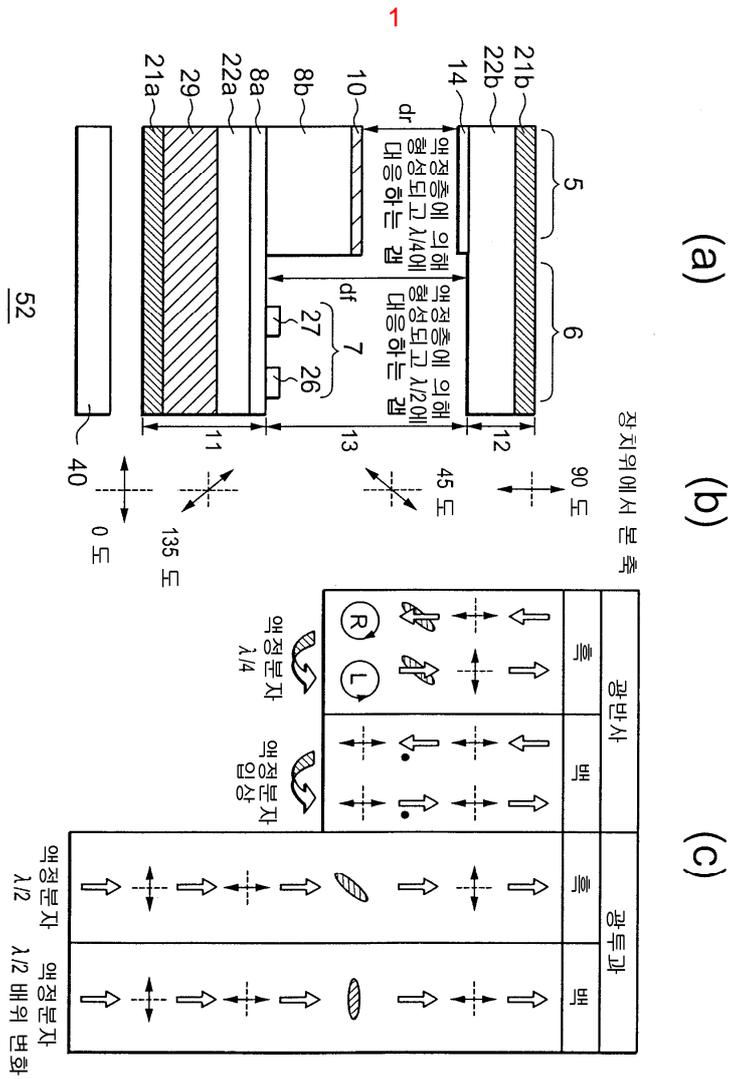
4 18. , , ,

, 0.098 μm 0.178 μm

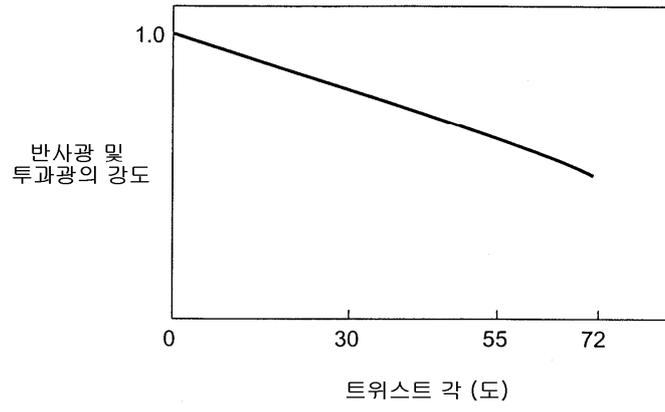
, 0.195 μm 0.355 μm

19.

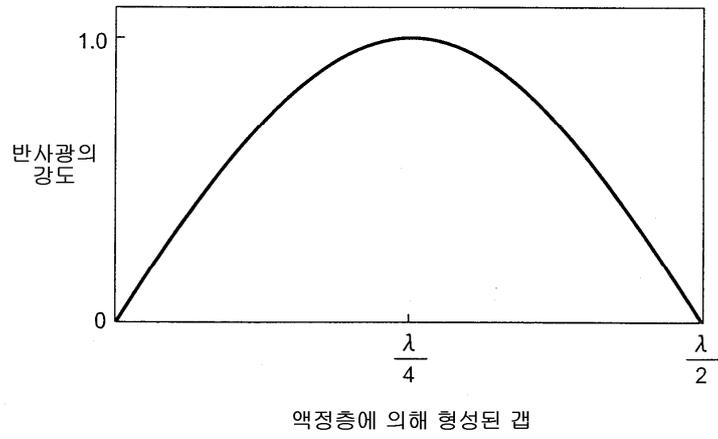
4



2



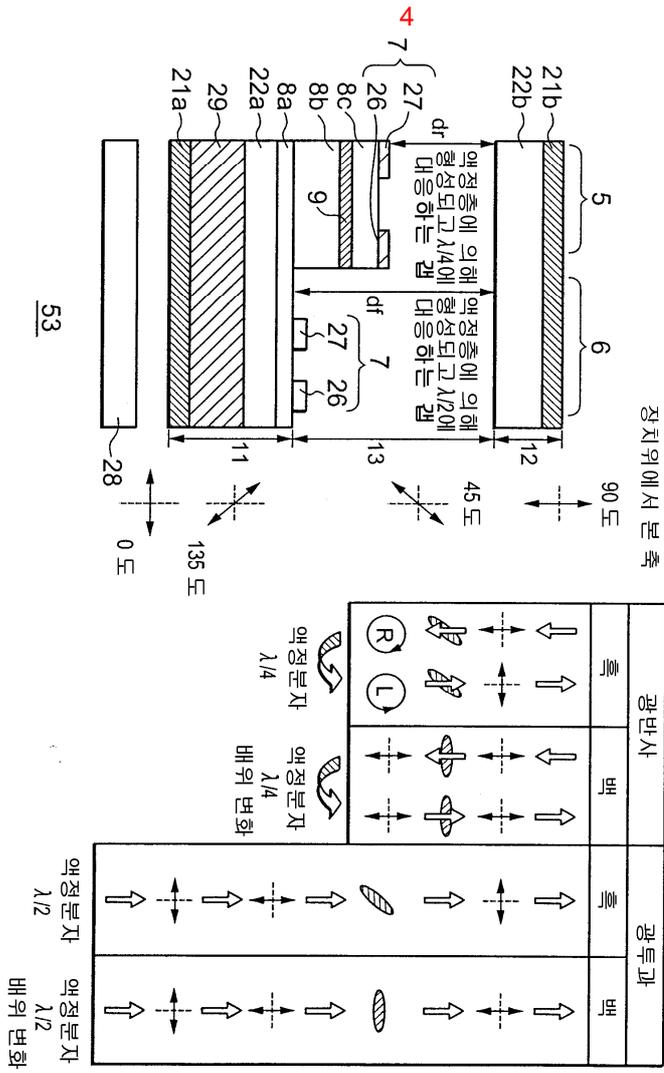
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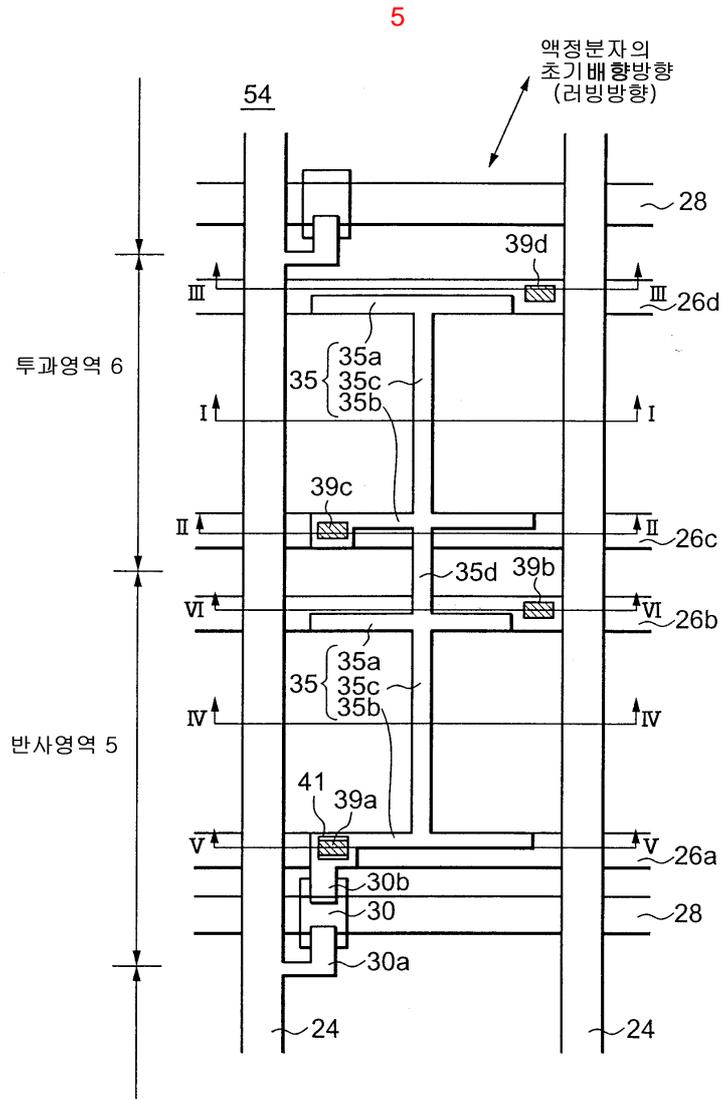


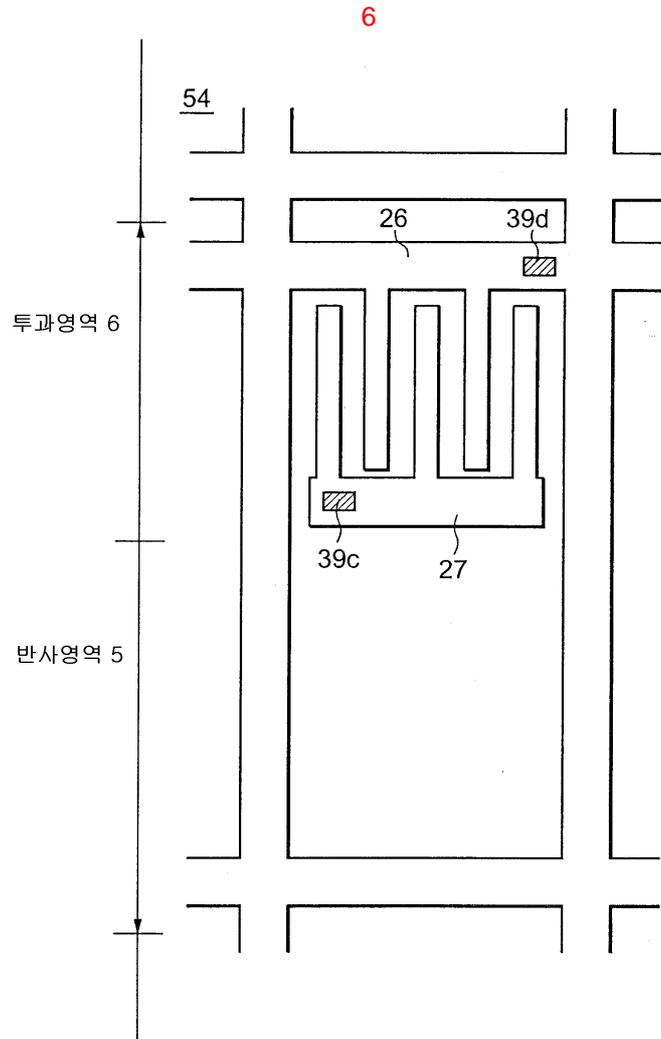
(a)

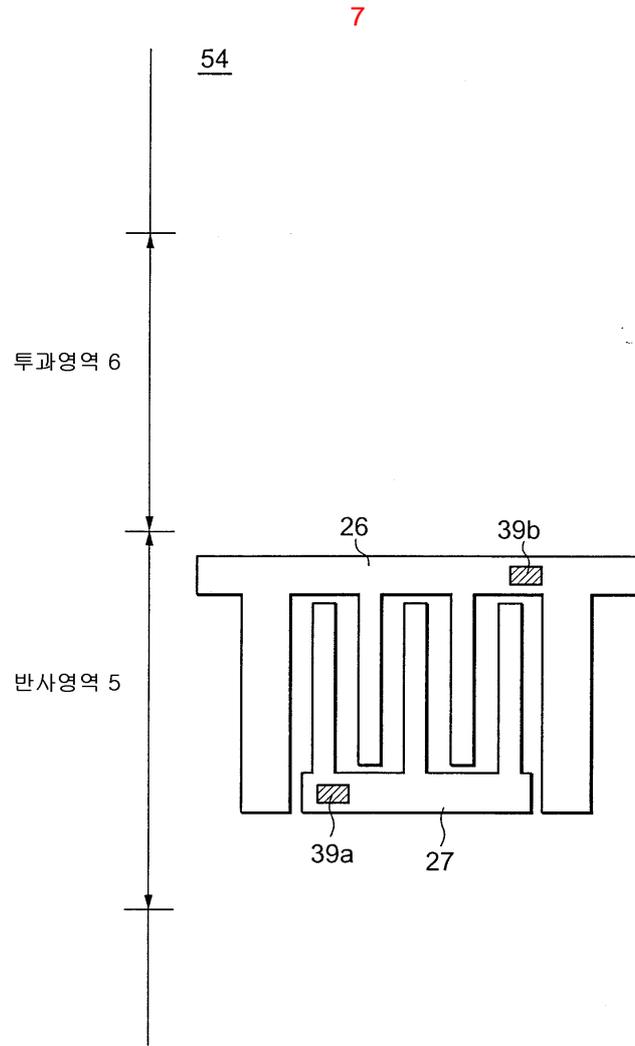
(b)

(c)



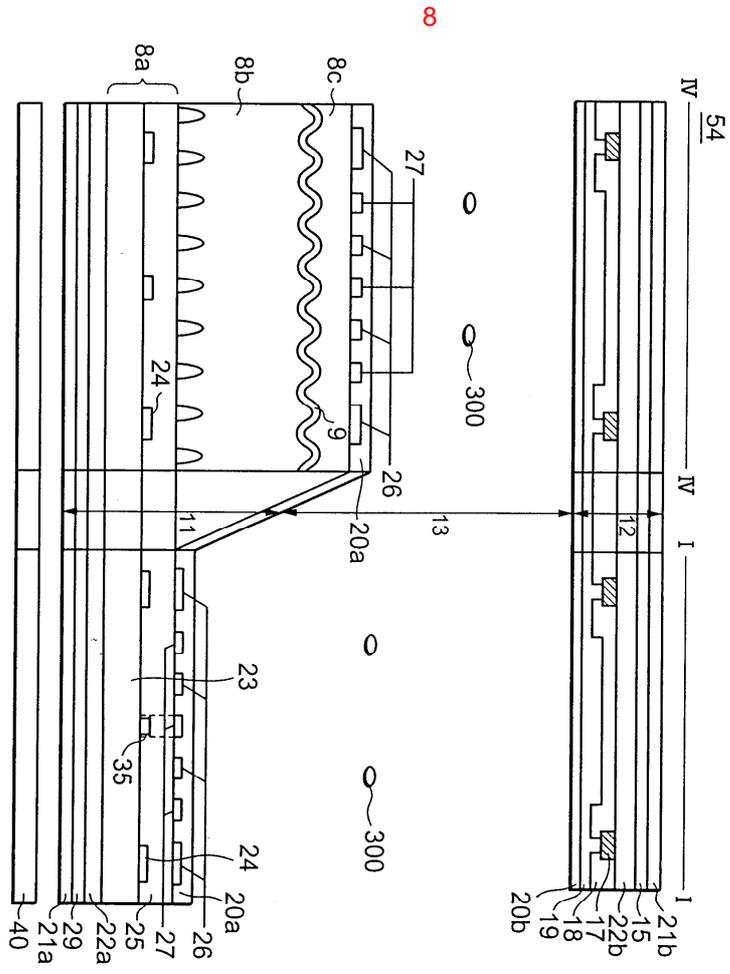






(b)

(a)



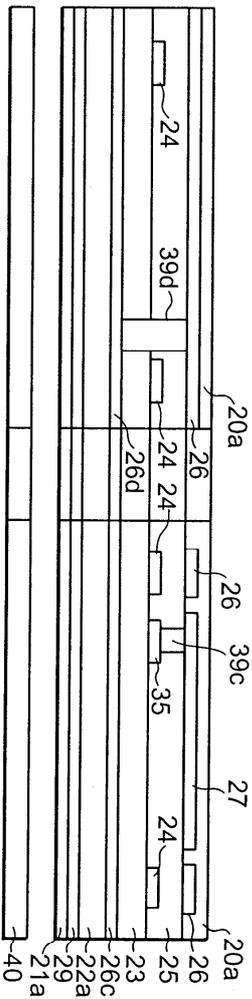
54

(b)

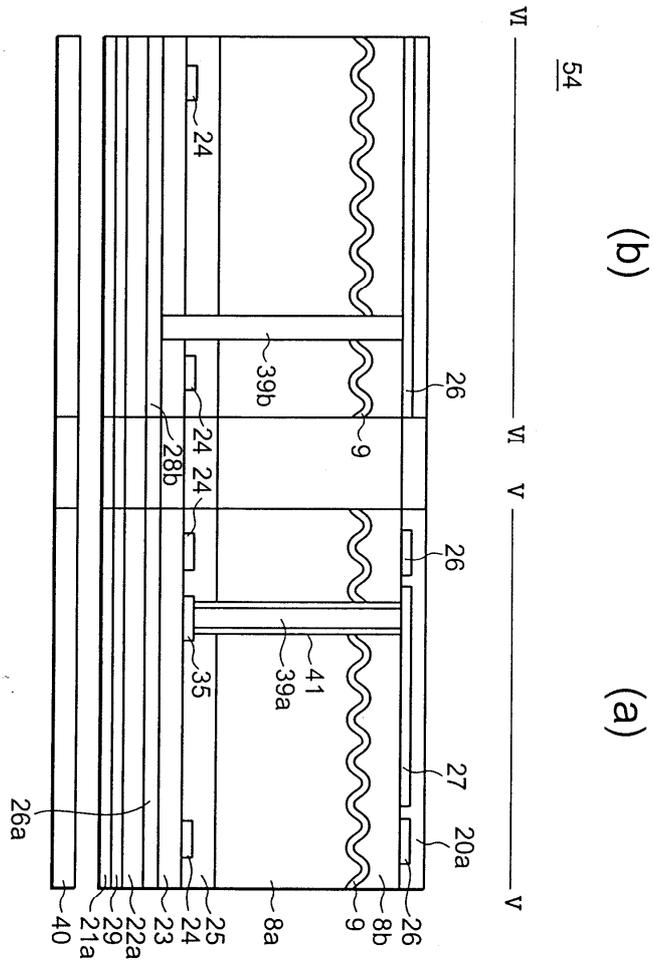
(a)



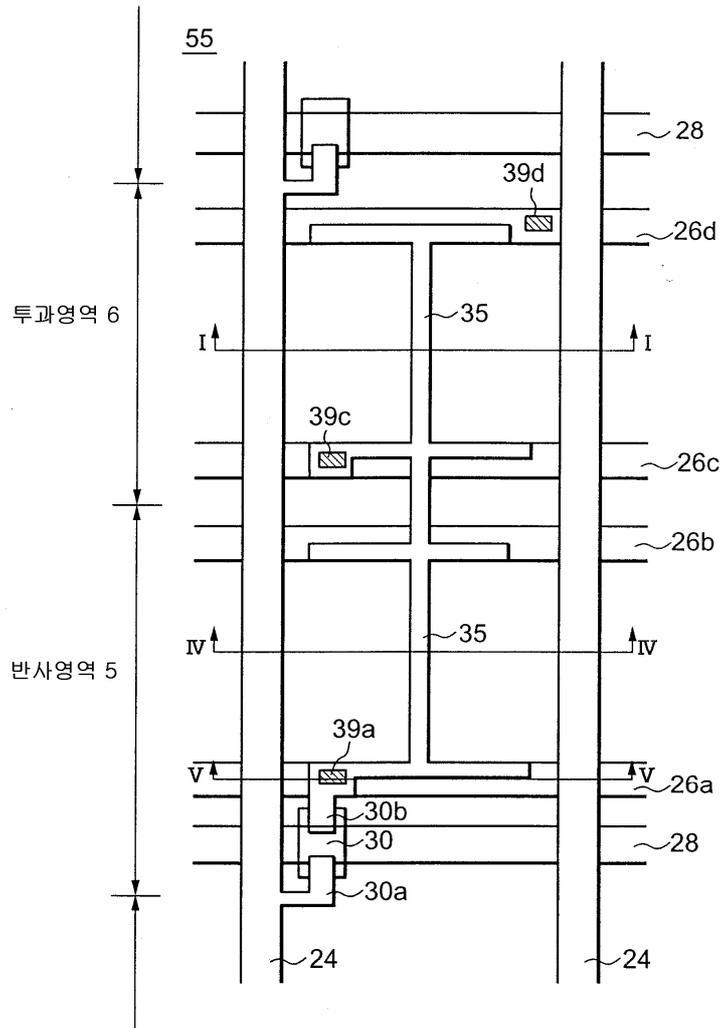
6



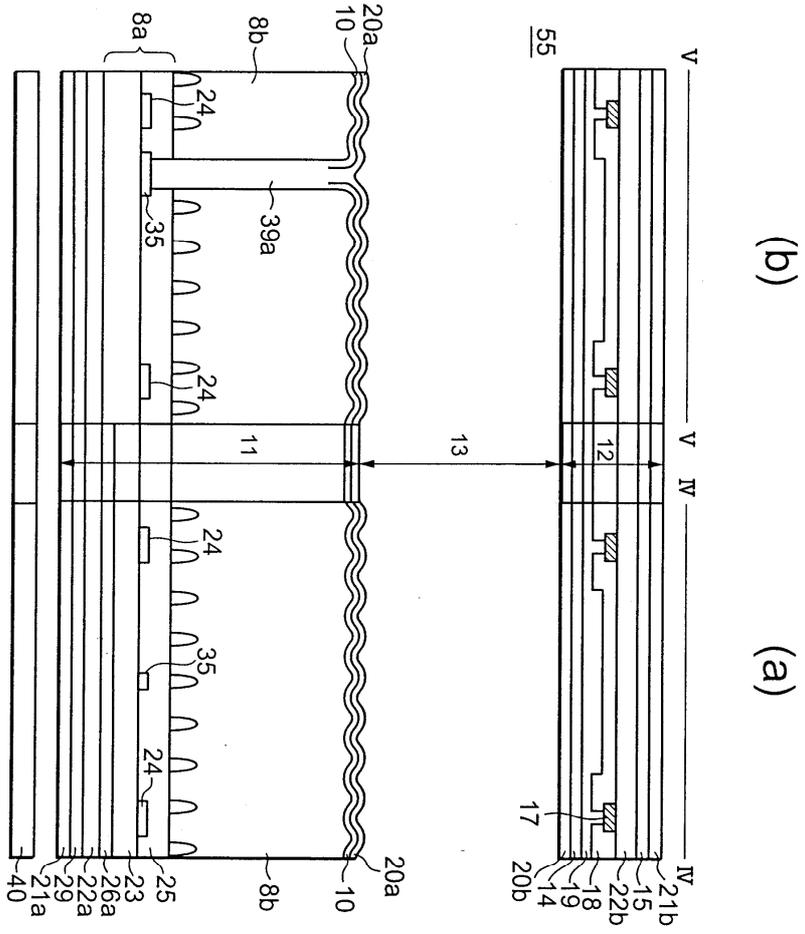
10



11



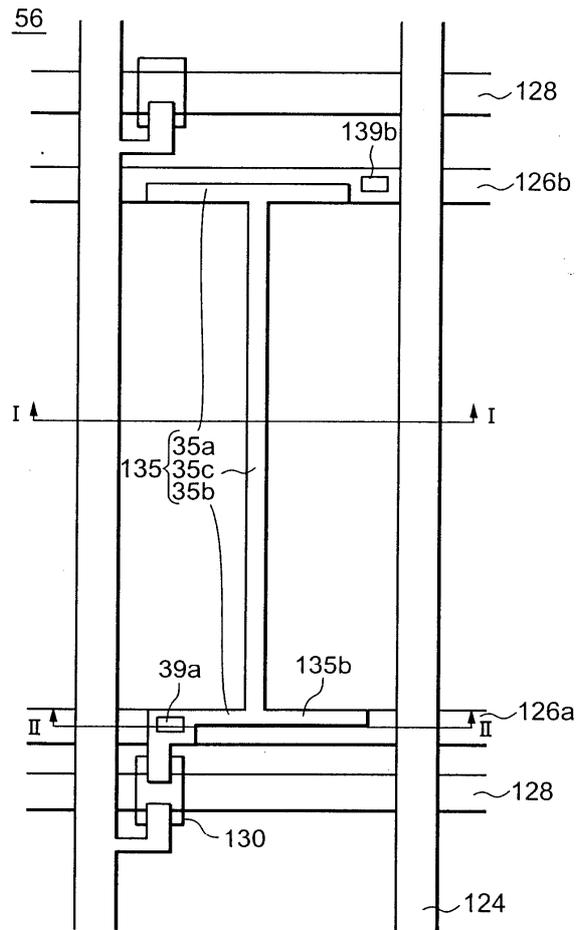
12



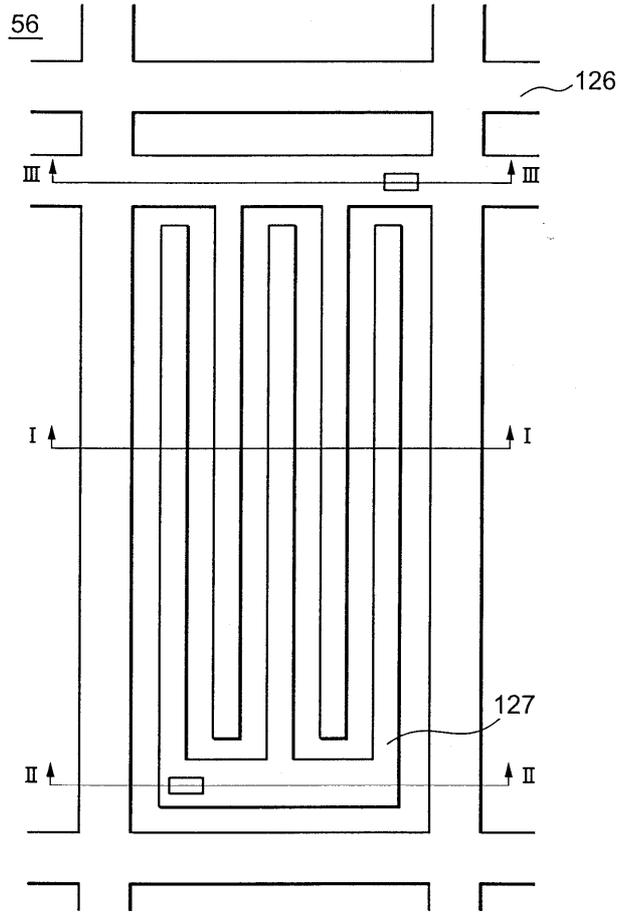
(b)

(a)

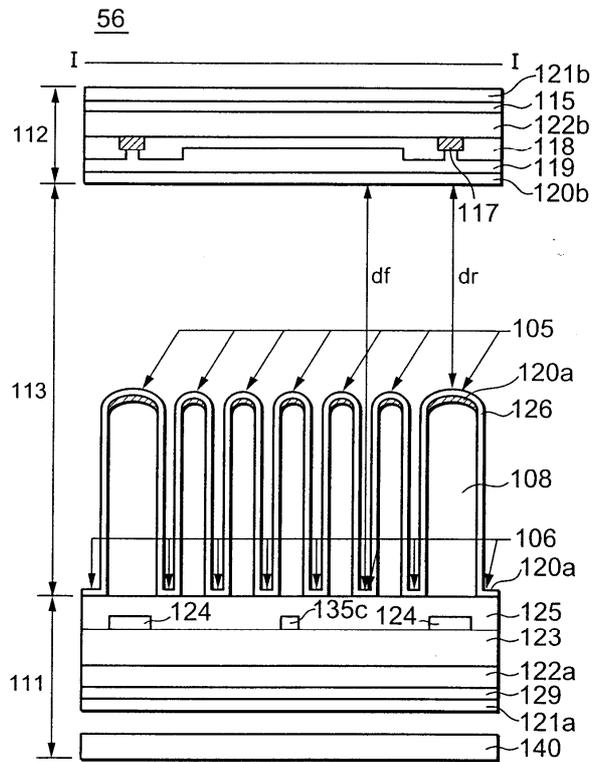
13



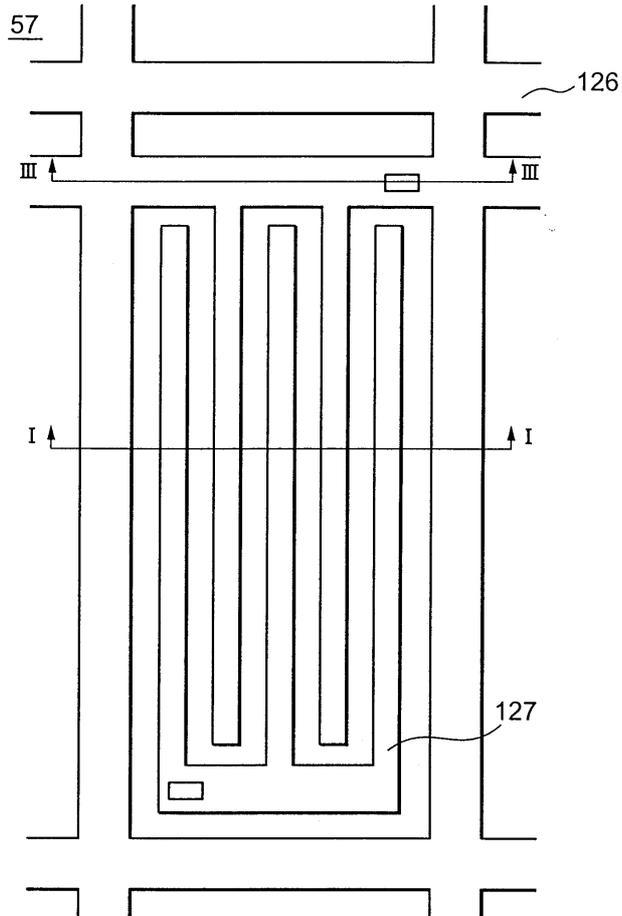
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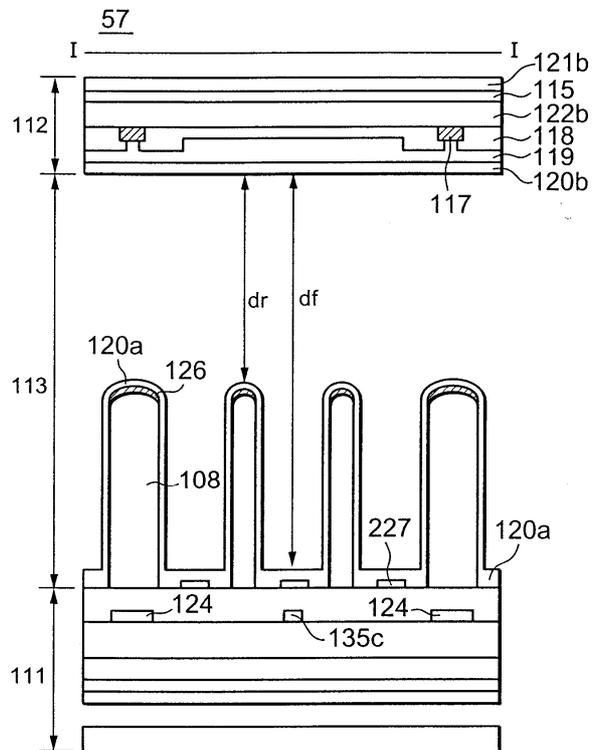
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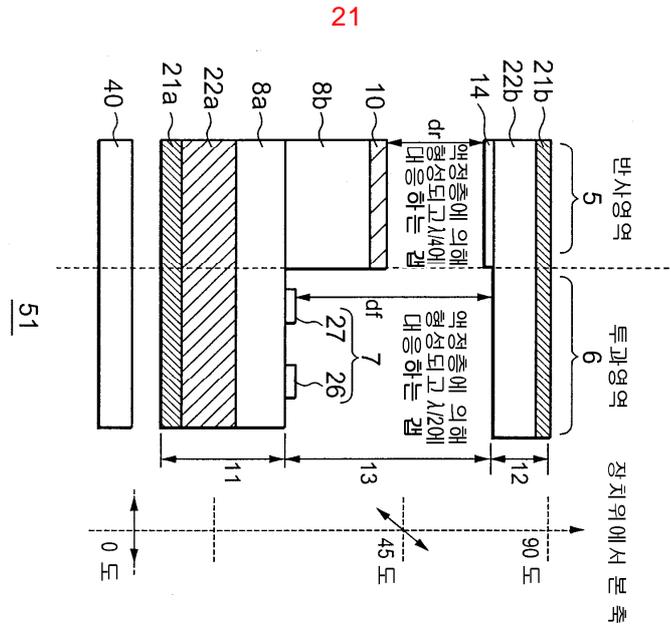


17



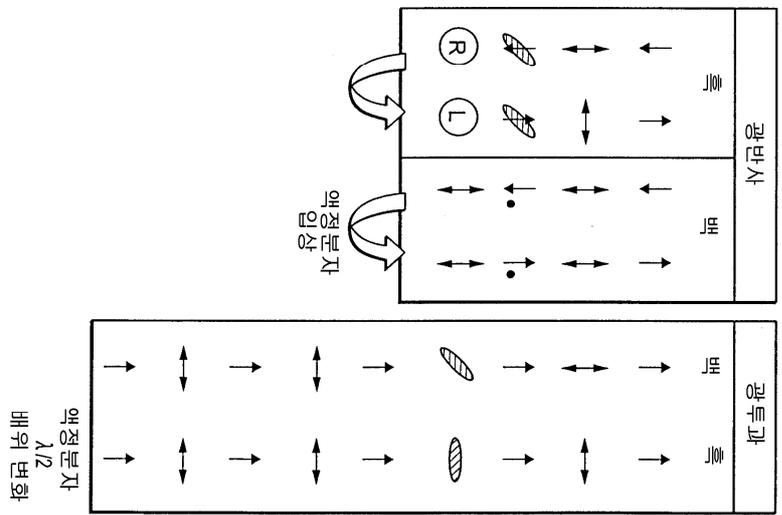
18





(a)

(b)



(c)

专利名称(译)	透反液晶显示器		
公开(公告)号	KR1020030091758A	公开(公告)日	2003-12-03
申请号	KR1020030032736	申请日	2003-05-23
[标]申请(专利权)人(译)	NEC液晶技术株式会社		
申请(专利权)人(译)	日元号技术可否让这个夏		
当前申请(专利权)人(译)	日元号技术可否让这个夏		
[标]发明人	SAKAMOTO MICHIAKI 사카모토미찌아끼 WATANABE MAKOTO 와타나베마꼬또 NISHIDA SHINICHI 니시다신이찌		
发明人	사카모토미찌아끼 와타나베마꼬또 니시다신이찌		
IPC分类号	G02F1/1333 G02F1/1335 G02F1/13363 G02F1/13357 G02F1/139 G02F1/1343		
CPC分类号	G02F1/133371 G02F1/134363 G02F1/133555 G02F2001/133638		
代理人(译)	韩国专利公司		
优先权	2002151291 2002-05-24 JP		
其他公开文献	KR100544843B1		
外部链接	Espacenet		

摘要(译)

在半透射型液晶显示装置具有的反射区域5和发送区域(6)在其中, 由此将一个半波片29设置在所述下基板侧的下基板11和偏振器(21A)之间。这是因为至少透射区域6液晶分子由横向电场驱动, 显示装置在反射区域5和透射区域6中以正常黑模式操作, 以实现具有宽视角特性的透反液晶显示装置。4 指数方面 半透射式液晶显示器, 普通黑色模式,

