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(71) 가가 가 가 4 5 - 33

(72) 가 1 - 5 - 112
1 - 4 - 126
20 - 1 - 138

(74)
:

(54) ,

() , .
() 30 nm (22) (21)
, 10 % 95 % (22)
(23) , (11) . (21) (24)
, (53) (63) (21) (51) (52)
, (63) , (23) (30)

12

, , ,

1

2

3

4

5

6

7

8

9

10

11

12

13 2 가

14 2

15 7 가

16 13 가

17

18

*

10 :

11 13 :

21 :

22 : 30 nm

23 :

24 :

25 :

26 :

27 :

28 :

30 :

31, 32 :

33 :

41 :

42 :

51 :

52 :

53 :

54 :

61 63 :

64 66 :

67 69 :

71 :

72 :

73 :

80 : 2

81 :

82 :

85 89 :

90 :

91 :

92 :

93 :

94 :

가

(CR

T) 가

17

(30)

1 (31) (32) (30) (33)

(30) (33)

(20) , (41) ,
 (42) , (30) , ()
 30) (93) 가 (90) , (61) ,
 (91) (92) , (52) , (52) (53)
 (61) , (51) , (54) ,
 가 (52) , (92) , (92)
 18 (94) 가 (91) ,
 (90)

55 - 46707

55 - 84975

(91)

가

가

399 , 6 - 324333 , 63 - 168626 , 6 - 51
 9 - 511844 ,

2) , 17 , (90) , (61) (5
 (52) , (91) , 가 (61)
 (91)

, / ,
, ,
, ,
, ,

30 nm
10 % 95 %
(粗面)

(, 1)

(, 2)

) (, 3

(, 4)

1 4 ,
30 nm

1

1 4 ,
1

1, 2, 3 4 ,

가

가

1

(10) (21) (22) 30 nm (10) (21) (22) 10% 95% 가 (21)

$$= (\frac{(21)}{(1) - (2)}) / = 1 - (1)$$

$$= (+) (2)$$

(21) 가 90% , 95% 80%

(21) (21) 1.9

99 (M. E. Pergamon Press) (1985 , 5) 91

(10) (22) 가

가 () , 가
2 가

, 1 μm 10 μm 가

(22) , 가 가 가
(22) 가 , 10 μm 500 μm , 25 μm 200 μm

(22) , , , ,
(21) , (22) , ,
(22) (22)
(21)

(10) , , 가 , 가
가 , 가 (22) 30 nm
(22) , 10 nm

(22) 30 nm , ,
가 , ,
가

2 (海島), 가
 (5,825,543), 11 - 509014
), 가
 (9 - 297204),
 (3 - 45906)

, 1 mm , 가 0.2 mm
 , 2
 , 2

(21) 3 (12) , 4 (25) (24) (23)

4 (a) (25) (24)
 4 (b) (21) (24)
 (25) (24) (21)
 (21), (24), (23) (23)
 (11) (25)
 (11)

(10) (22) 30nm

가 가

(24) 3 (12) (21) (25)
 (23)
 (25)

4 (13) , 5 (27) (26)
 (24) (23) (24)
 (23) 5 (a) (26)
 (26) (13) 5 (b) (24), (23)

, 2 (11) (26)
4 (13) 3 (12) 3 (12)

(26)

7 (a) 6 7 (b) 8
7 (c) 가

, 10 500 μm 가

(10)

가 1 4 가 4

4 (13)

가

(3)

가

가

가

가

9

9

(a)

2(a)

(2

3)

(23)/
(22)

(22)/
(23)

(28)

(21)

9 (b)

2(a)

(28)

(23)

(28)

(23)

(28)

9 2(a)

(28)

가

, 2 5

(23)

(24)

(28)

(28) , 30 nm , (28) , , ,
 80 % , 90 % , (28)
 60 % 95 % , (30 % 95 % ,
) × 100 (%)

(28)

가

가

1 μm 100 μm , 20 μm 50 μm

" WV " , " NH " " LC " ,
 " VAC ")

10 12

10 11 , 4(a) , (2) ,
 1), 30 nm (22), (28) , (23)
 4 65) 가 (11) (21) , (61 62) , (6

10 (61) , (51), (52) (52)
 (53) , (52) (51) (51)
 (52) (54) , (52) 가 , (51)
 , (53) , (52)
 64) 가 (61) 가, (11) (21) , (
 , (30) (11) (23) (30)
 (67) 가 (42) (41) ,

, 11 (62) , (直下式) , (51)
 (53) , (51) (53)
 (62) 가, (11) (21) ,
 (65) 가 (11) (23)
 (30) , (30) (42) (41) ,
 (68) 가

(23) , 2 4 (11) ,
 (21) (21) , (61 62)
 , 11 , 10
 , (51) (52) . 10
 가 , ,

12 , 10 (51), (52) (53) (61)
 (24) (63) , (63) (63)
 66) (69) , (24) , (63)
 (23) , (24) (24) (63)
 (24) , (23)/ (28)/ (22)/ (21)/

10 12 , (61 63)
 (51) , (51) , , , ,
 (EL) .

(53) , .
 , , 2 , 가 , 가 , ,

10 12 (52) , (51)

% , 10 % , 80 % 60

가

가 ,

66) , 10 12 , (64, 65
 (11) , (30) (41)
 2) 1 (30) (41) (4
 (11) (41) , 1
 , 가 , 가

가 (30) , 2 , (31)
 (32) , (33) (33) , (30)
 (30) , (33)

(30) (STN) , (TFT) (TN)
 In - Plane , (OCB) , (VA) ,

(41)

(30)

(41)

(42)

가

" WV "

" (),

" VAC "

" ()

" LC "

(42)

(30)

()

(1)

(1 - 1)

(Nb₂O₅) : 2.20.

(1 - 2)

(ZnS) : 2.30.

(2)

HC - TAC :

4 nm

AG5 - TAC :

((防眩))

13 %,

4 nm

AG6 - TAC :

()

25 %,

4 nm

(3)

SRW862A :

(4)

DBEF - P : 2

(5)

#B : 가 78 % ,

(6)

#7 : ,

1

4 nm HC - TAC (A) , (B) (C) 가

1

(A)

가 " HGM - 2DP"

(B)

" HR - 100"

(C)

(A) (B) 100 % , 100 % ,

100 %

1

1 HC - TAC ,

/ 1 가

1

2

가 1 , 1

3

HC - TAC AG5 - TAC , 가 1

1

4

HC - TAC AG5 - TAC , 가 1

2

5

HC - TAC AG6 - TAC , 가 . 1 .

, 1

6

HC - TAC AG6 - TAC , 가 . 1 .

, 2

[1]

1	1	2	Nb ₂ O ₅ ZnS	HC - TACHC - TACHC - TAC	92 %75 %72 %	9 %22 %27 %	102 %97 %99 %
3	4		Nb ₂ O ₅ ZnS	AG5 - TACAG5 - TAC	74 %69 %	22 %27 %	96 %96 %
5	6		Nb ₂ O ₅ ZnS	AG6 - TACAG6 - TAC	75 %66 %	22 %29 %	97 %95 %

가 , / ,

2

(PC) " E - 700"

0) (81) (23) (28) 13 (a) (81) (8)

(81) (23) (80) (85) 13 (b) (81)

(23) (85 ; 86 : (86)

(D) 가 450 cd/m² 가 400 cd/m²

(D) 가

(85) (" ENV - B - 2") 14 (71)

(73 ; ()) 15 ° (72 ;

" BM - 7")

(D - 1)

(85) , (71) , (72) , (85)

(D - 2)

(85) , (71) , (72) (85)

7

15 (a) , 1 (22) , (82), (22)/ (23) (21) (28) (11) (11)

(28) , (81) #B 1.1mm (81) , 2 (80) (87) (80) , 15 (b) (24 ; DBEF - P)

(88)) , 2 (D) (87 ; 88 ;

2 가 450 cd/m² , 550 cd/m² ,

8

7 가 2 가 450 cd/m² , 2 550 cd/m² , 7

9

7 #7 , 7 3 , 가 (28) 2 / 2

가 .

10

7 #7 , 7 4 , 가 (28) 2 / 2

가 .

11

7 #7 , , 5 , 가 (28)
 , 7 / 2

가

12

7 #7 , , 6 , 가 (28)
 , 7 / 2

가

[2]

			(cd/m ²)	(cd/m ²)	(cd/m ²)	(cd/m ²)
2 7	Nb ₂ O ₅ ZnS	HC - TACHC - TA	405370350	316476550	504476449	432556613
8		C				
9 10	Nb ₂ O ₅ ZnS	AG5 - TACAG5 - TAC	444420	427467	541511	470526
11 12	Nb ₂ O ₅ ZnS	AG6 - TACAG6 - TAC	442439	441440	539541	485489

(1) /

1 6

(2)

SR1872A :

(3)

DBEF - P : 2

(4)

#B : 가 78 %

(5)

#7 :

13

16 (22)/ (24), (21) 7 (82), (23) (11) (22) 1 (82),
 3) (81) (89) (28) (80) (81) #B 1.1 mm (1
 /m² (89) 3 (89) 2 (D) 가 450 cd

14

13 가 3 2 13 가 550 cd/m²

15

13 가 3 3 13
 2 가

16

2 13 가 3 4 13
 가

17

13 가 3 5 13
 2 가

18

13 가 3 6 13
 2 가

[3]

				(cd/m ²)	(cd/m ²)
13	14	Nb ₂ O ₅ ZnS	HC - TACHC - TAC	495475	518587
15	16	Nb ₂ O ₅ ZnS	AG5 - TACAG5 - TAC	565531	446517
17	18	Nb ₂ O ₅ ZnS	AG6 - TACAG6 - TAC	562551	462484

(57)

1.

10 % 30 nm 95 %

2.

1 ,

3.

1

4.

3 ,

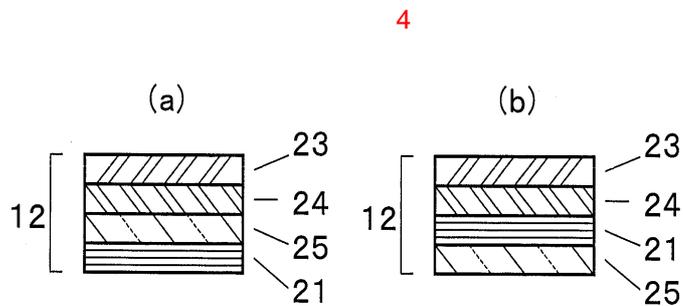
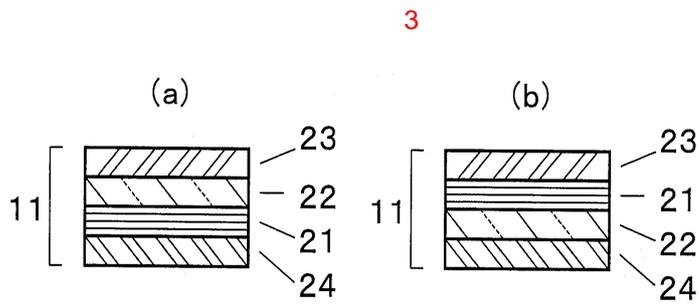
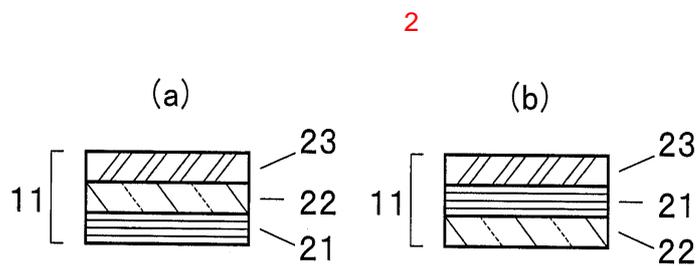
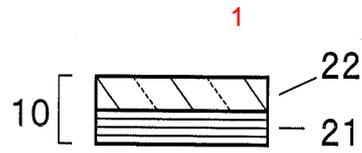
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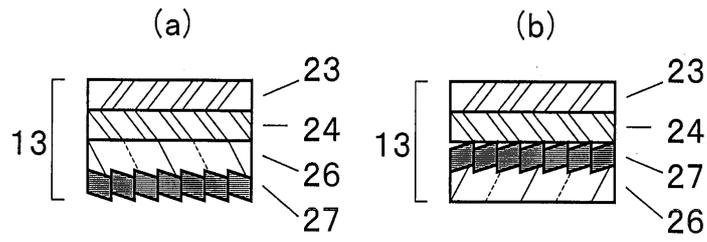
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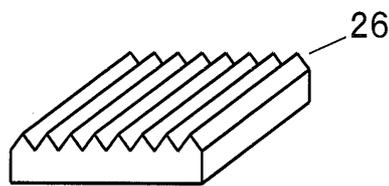
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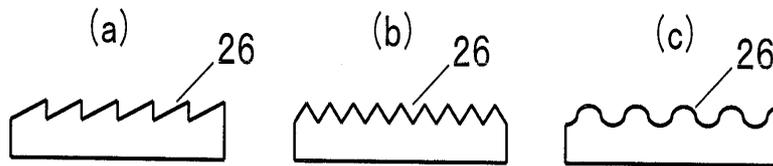
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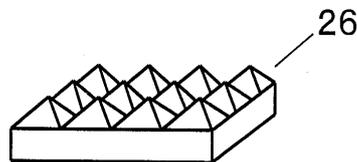
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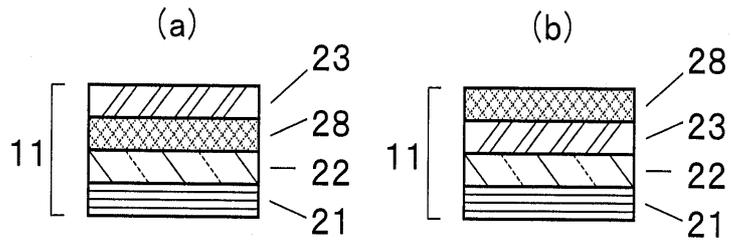
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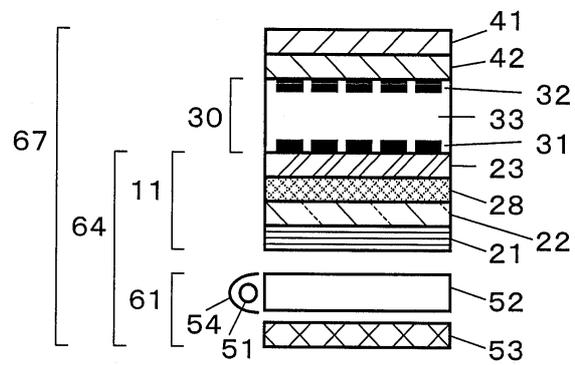
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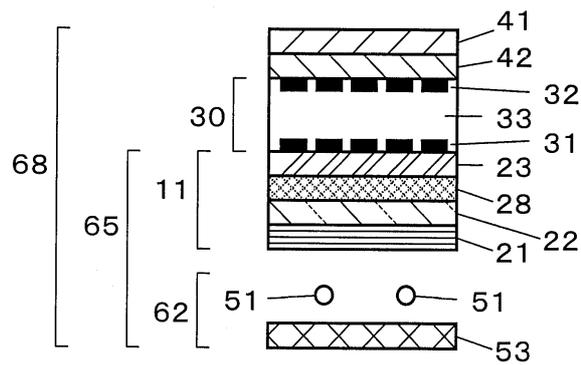
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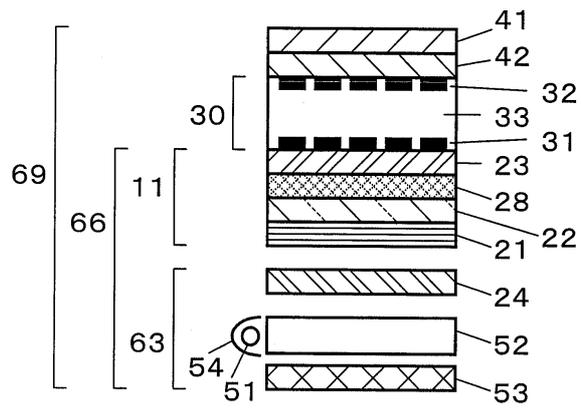
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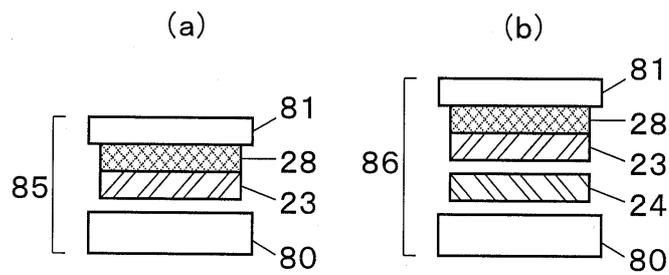
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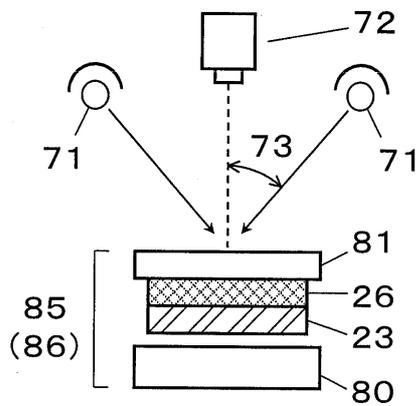
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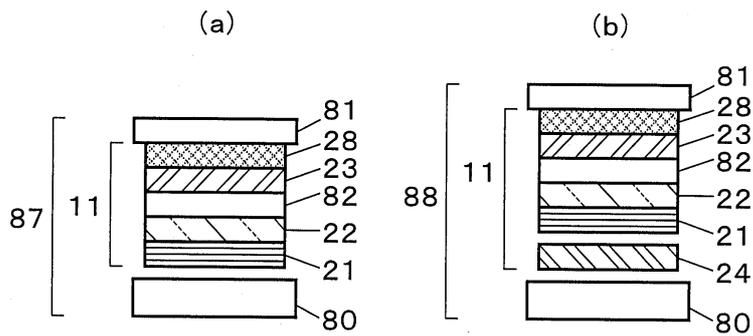
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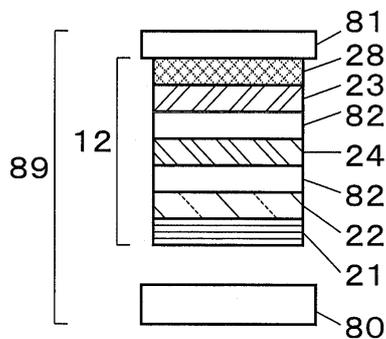
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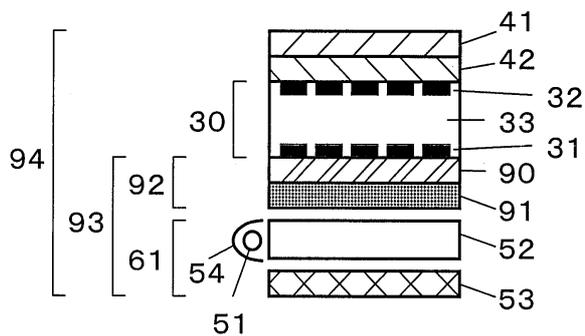
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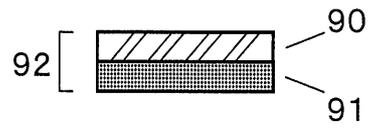
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17



18



专利名称(译)	半透明半反射膜，半反射半反射偏振膜，偏振光源装置和使用其的液晶显示装置		
公开(公告)号	KR1020030004062A	公开(公告)日	2003-01-14
申请号	KR1020020035948	申请日	2002-06-26
[标]申请(专利权)人(译)	住友化学有限公司 另一位家长住友化学有限公司被卡住布什		
申请(专利权)人(译)	住友化学工业有限公司是sikki		
当前申请(专利权)人(译)	住友化学工业有限公司是sikki		
[标]发明人	HIGASHI KOJI 히가시고지 HONDA MASARU 혼다마사루 SAIRAI TAKUYA 사이라이다꾸야		
发明人	히가시고지 혼다마사루 사이라이다꾸야		
IPC分类号	G02F1/13357 G02F1/1335		
CPC分类号	G02F1/13362 G02F1/133555 Y10T428/1036 Y10T428/1041 Y10T428/24355		
代理人(译)	韩国专利公司		
优先权	2001200549 2001-07-02 JP 2002012612 2002-01-22 JP 2002012613 2002-01-22 JP		
外部链接	Espacenet		

摘要(译)

一种半透射半反射液晶显示装置，具有半透射半反射膜或半透射半反射偏振膜，可用于亮度增强系统，并设置在偏振光源装置或半透射半反射液晶显示装置上待应用。 在面内延迟值为30nm或更小的聚合物膜(22)上提供具有10%或更高且95%或更低的反射率的半透明半反射膜。在聚合物膜22侧，是吸收型偏振膜

