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(86)	2003 05 14	(87)	2003 11 20

(30) JP-P-2002-00138285 2002 05 14 (JP)

(71) 가 가 가 1 6 2

(72) 가 가 가 가 2-20-5, B202

가 가 1-1425-3-234

(74)

:

(54)

2 , 1 , 1
 . 2 . 2

1a

EL, , , , , ,

EL	EL	EL	EL	EL	EL	EL	EL
EL	EL	EL	EL	EL	EL	EL	EL
22	EL	(903),	EL	(904)	(901)	(905)	(902)
L (904) (903)		(903)	EL	,			E
				2		3	

(901) , (903) (905) 가 , (903)
EL (904) (905) EL (904) EL (904)
EL (904) EL (904) EL (904)

, (901) (903), (902), . , EL (904), (905) (901)

(901) EL (904)
(902) (902) . (902)

, (901) , EL (904) 가

1 . 2

2

2 가

16 15
17 16
18 17
19 18
20 19
21 20
22 21

가 , , . (2) (2b)

1a

6) (7) (5) (6) (5) (7) . (6) 가 () , ()
 200 μ m, (7) (5) 25 μ m 75 μ m . (7) (7b) 1 μ m
) (x) (7c) (7e) 2 : 1 , (7e) (7d) () 120° , (7e) (7d) (2x) (7e)
 7) (8) (7) (8) / (7b) (8) 가 (8) (8)
 (8) (7c) (7) (2) (7c) (3) (8) , (2)
 (5) , (5) (6) , (8) EL (4) (1) (3) (7b) , (5) (3) (2) (2a)
 , (5) (6) , (7) (7a) (6) , (7) (1) , (7a) (4) (6) 가 (5) (2)
 (1) , (3) EL (4) , 2 (,
 EL (3) EL (4) (9) , ,
 EL (5) EL (4) (9) (3) , (9)
 (Tr) (Tr) 가 a-Si/TFT p-Si/TFT (Tr)
 L (4) (7c) EL () EL (4) , EL (7c) (5) (8) (2) 가 E
 , (9) , (9) (5) , EL (4) (3) (3)
 EL (4) (Tr) (9) (3) EL (4) , (6) 가 ,
 (7) (2) ,
 2 (1) CVD , (3) (2) (3) (2) (2a)
 , (Tr) (Tr) , (3) (2) (3) , (Tr)
 , (9) (Tr) , ()

$$) \quad (2) \quad (2a) \quad , \quad (9) \quad (, \quad (3) \\), \quad (9) \quad .$$

$$, \quad (3) \quad , \quad (9) \quad , \quad \text{EL} \quad (4)$$

, (5) , CVD . 2
(5) , (5)
,

1a	2	(1)	,	(3)	(3)	(3)	(5))
	(3) EL (4)	가	,	가	EL (4)	EL (4)	,	(5)
	EL (4)	가	,	EL (
4)	EL (4)	.	,	(3) (2)	EL (4)	,	(2)	,
	EL (4)	.	(5),	(3) (2)	EL (4)	,	(2)	(2b)
	EL (4)	(6)	(7)	EL (4)	(6)	(7)	(8)	,
	EL (4)	(7),	(5),	EL (4),	(3)	(2)	,	(2b)
		(6),	(5),					

1a 2 (1) , (5) EL (4), EL (4)
(8) (7c) (2b) . , EL (4) (8)
(1) (2b) . . , EL (4) (1)
 (2b) , EL (4)

1b (O) 1a () [cd/m²] (1) . (2b) (2) . (2) 1.5, 0.7mm , , (2b) (O)
 (3), EL (4), (5) (6)

(L109) 22((905) 가 가)

(L1) 1a (1), (902b)
 (901) 1 .

) (7) (8), , , ,

1b , (1) 0° 60°
 , 60° ,
 , 80° .

$$(2b) \quad , \quad (1) \quad 30^\circ \quad (5) \quad . \quad 5^\circ$$

a (50) ,
 (16) .
 14a (51) , (3), EL (4) (51) (21) (21a)
 (5) (21c) (21) (21b) (5)
 (21c) (16) (902b) 14b , (L16) , 14a
 (16) (901)
 1 () 90° 100° (21) (21c) () 90° 100°
 (901) (901) (9)

, 15 (17) , (8) (EL) (32)) (32)
 (32a) . , . , (8) (8) (32) (32a) (32)
 2a) 가 (, 가 , 가 , (5) 가 , (8) 가 (31) 가) 가 ,
 (5) (8) .
 (17) , (2) (2a) (3) ,
 () (32) EL (4) (32c) 가 (5) (5) (3) ,
 (32c) . , ,
 (32) (8) (5) (32) (32a) (32c) (32c) ,
 (32) (31) (32a) (31) (31) 1 (17) (2)
 . , (5) (32c) (8) ,
 . , (5) (8) (32) (8) 가 (7c) (8) (5)
 . , (2) (32) (8) (8) 가 (32) (32) (2)
 . , (5) (2) (32) (8) (8) 가 (32) (32) (2)

(42) 1.5

, (43) 가 , (43) 가 , (43) 가
 가 , (43) 가 , (43) 가 , (43) 가
 PTFE(: 1.35), PFA(: 1.35), PFEP(: 1.34), MEXFLON-H15(: 1.35,
), CYTOP(: 1.35,)

(44)		(43)		(44)		가	
,	(44)	EL (45)	.	(IZO),		(In ₂ O ₃),	(SnO ₂) (44)
-	-	(ITO),	.	(IZO),		(In ₂ O ₃),	(SnO ₂) (43)
(ZnO)		(42)	ITO	2.0		.	.

$$\text{EL} \quad (45) \quad (44) \quad . \quad \begin{matrix} 3 \\ \text{EL} \quad (45) \end{matrix}, \quad , \quad \begin{matrix} 2 \\ (44) \end{matrix} \quad (3)$$

EL (45) , . EL (45) ()

$$(40) \quad 100\mu\text{m}, \quad (41) \quad \text{가} \quad (42) \quad (42a) \\ (43) \quad (43), \quad (44), \quad (44) \quad 150$$

가

가

(57)

1.

;

1 ;

1

;

2 , 1 , 2

;

2

2.

1 ,

3.

1 , 가

4.

1 ,

5.

4 ,

6.

4 ,

7.

4 ,

8.

4 ,

9.

1 , 1 , 2

10.

9 ,

11.

9 ,

12.

1 , 1 ,

2 ,

13.

12 ,

14.

1 ,

15.

14 , 가 가

16.

1 ,

17.

1 ,

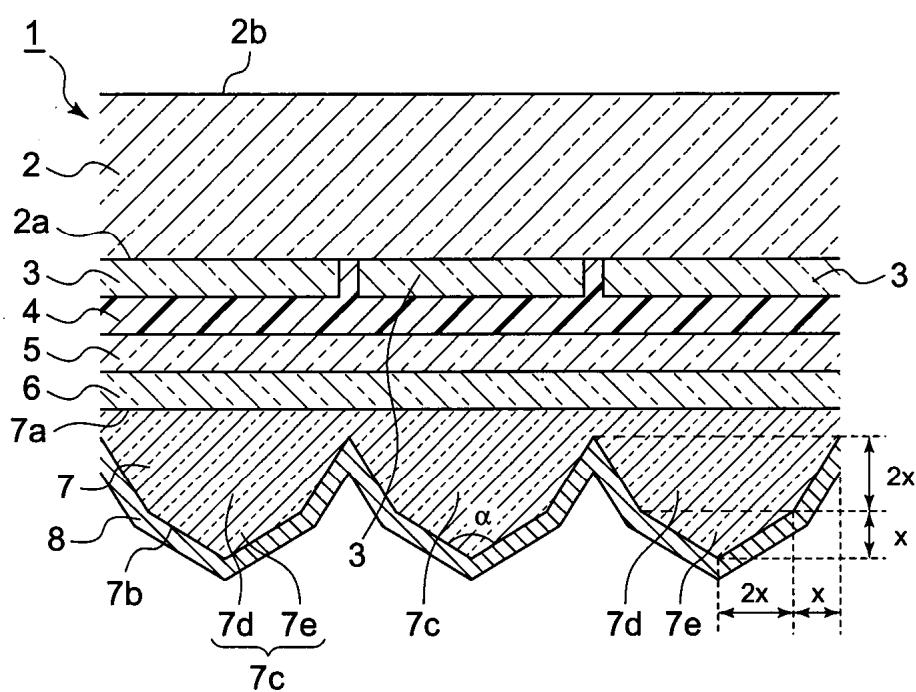
18.

1 ,

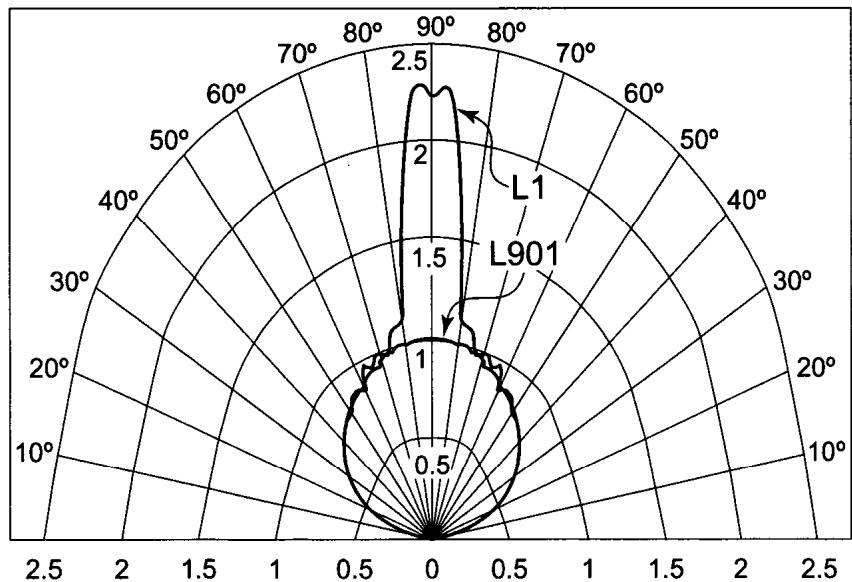
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1 , 1

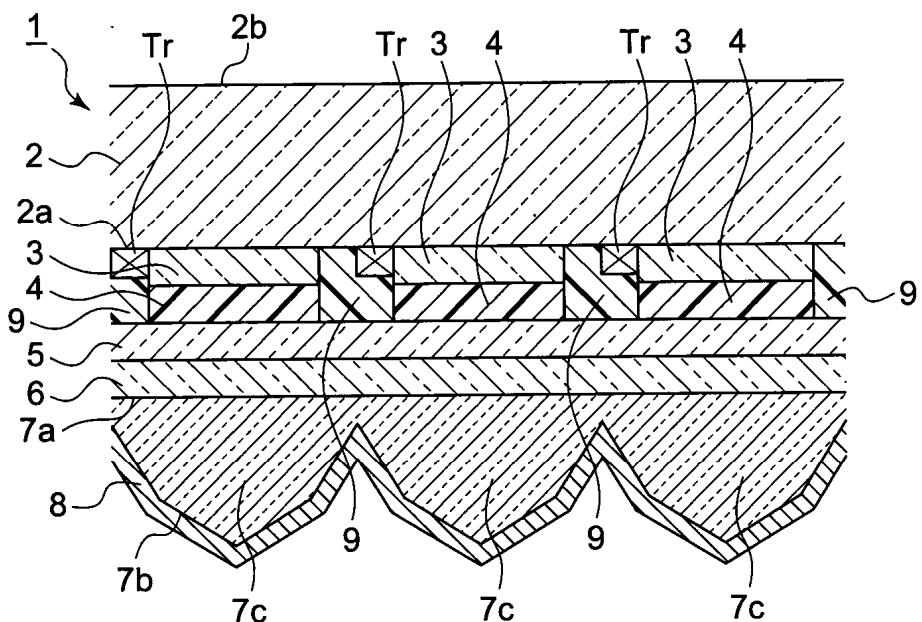
1a

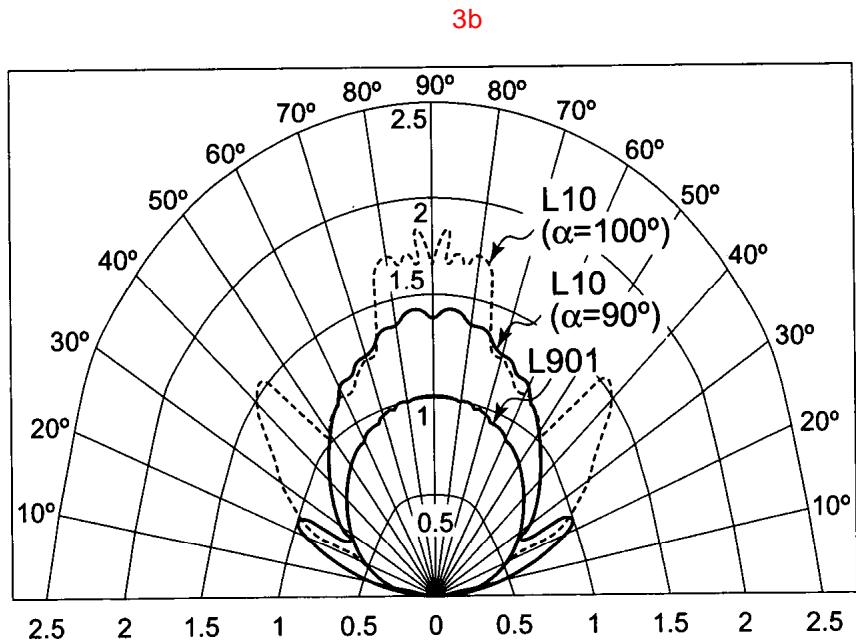
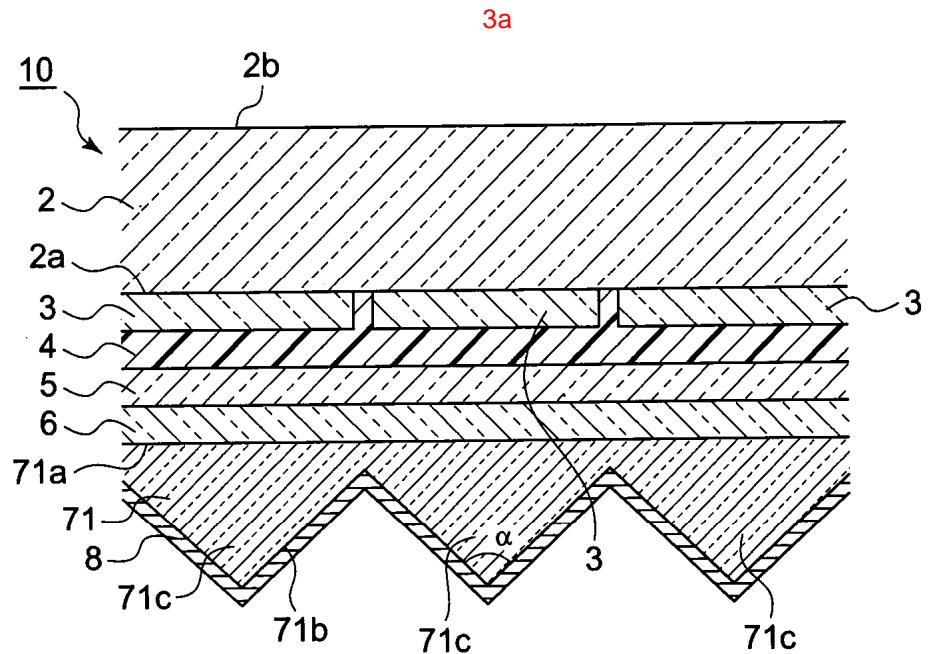


1b

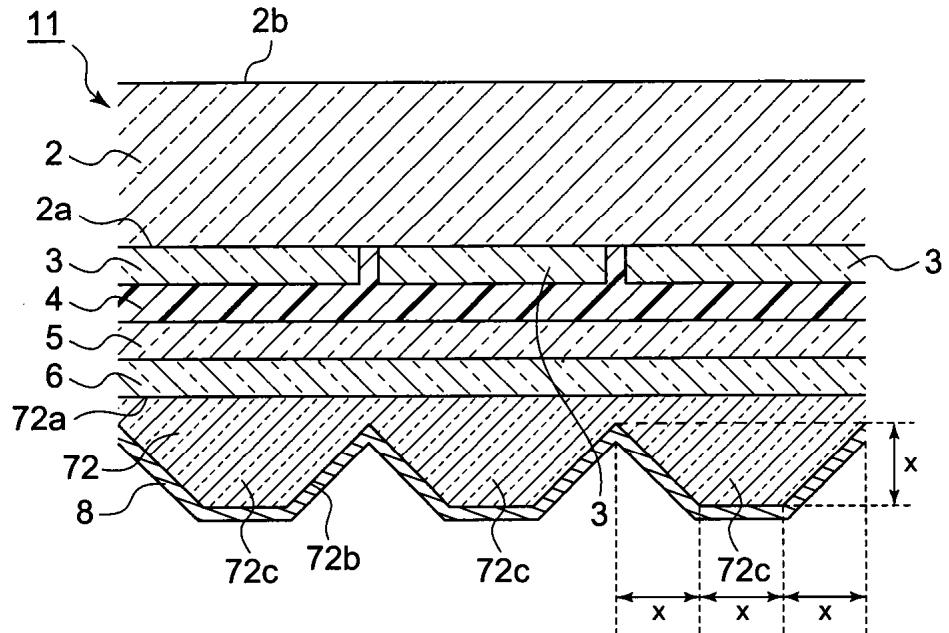


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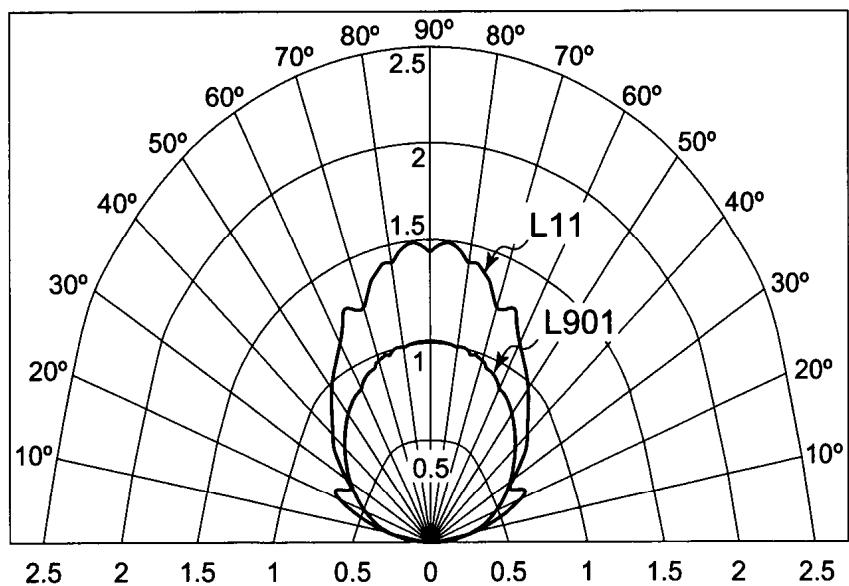




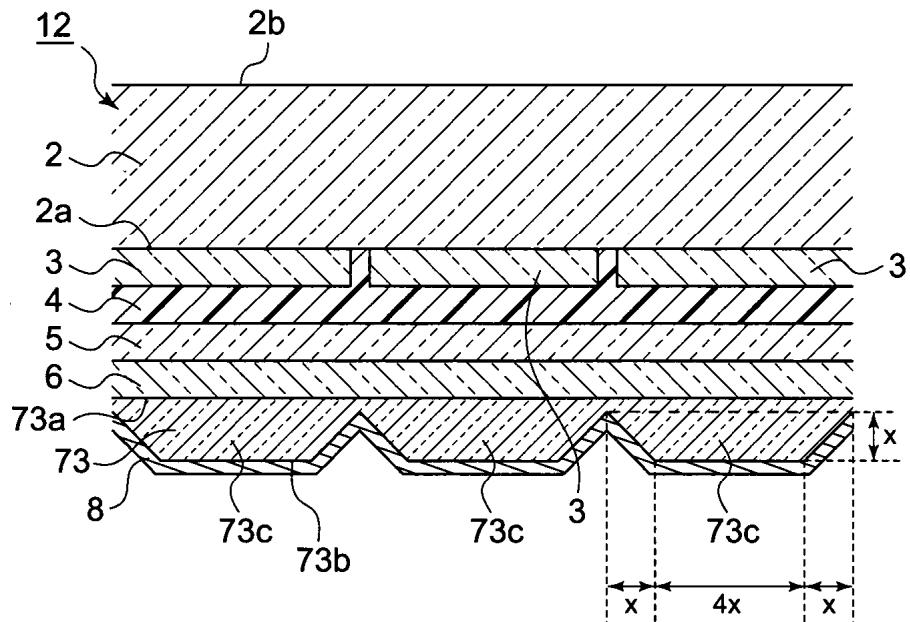
4a



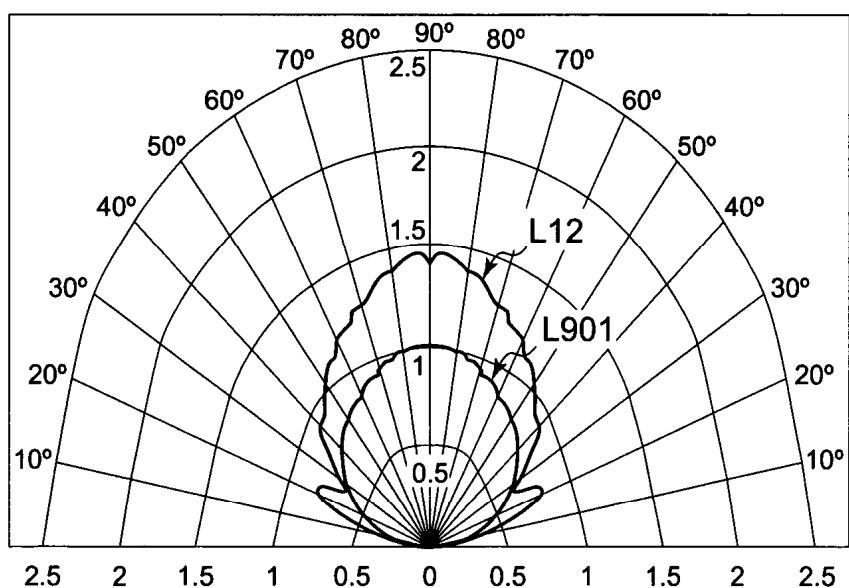
4b



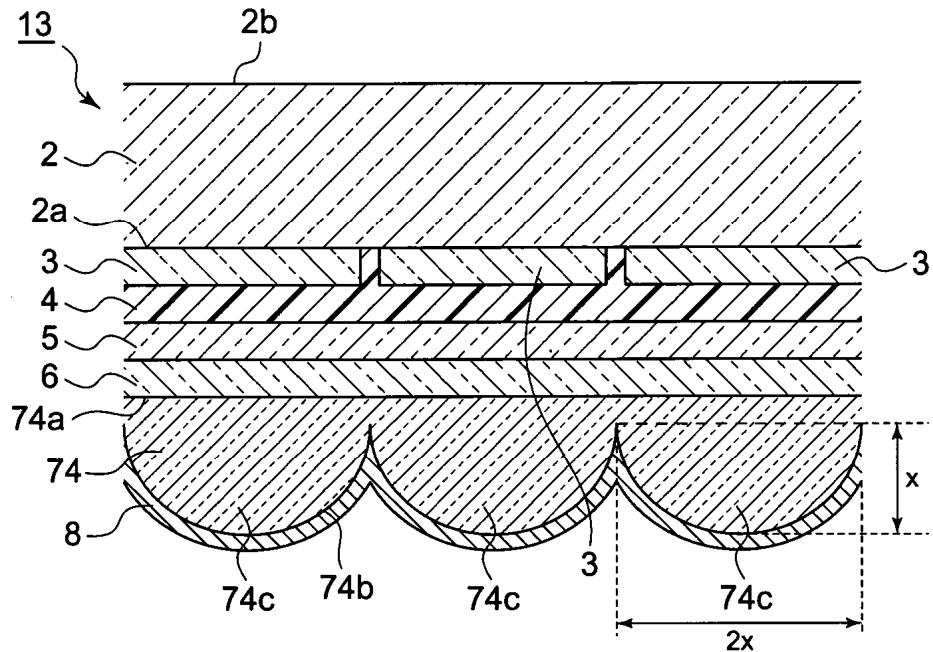
5a



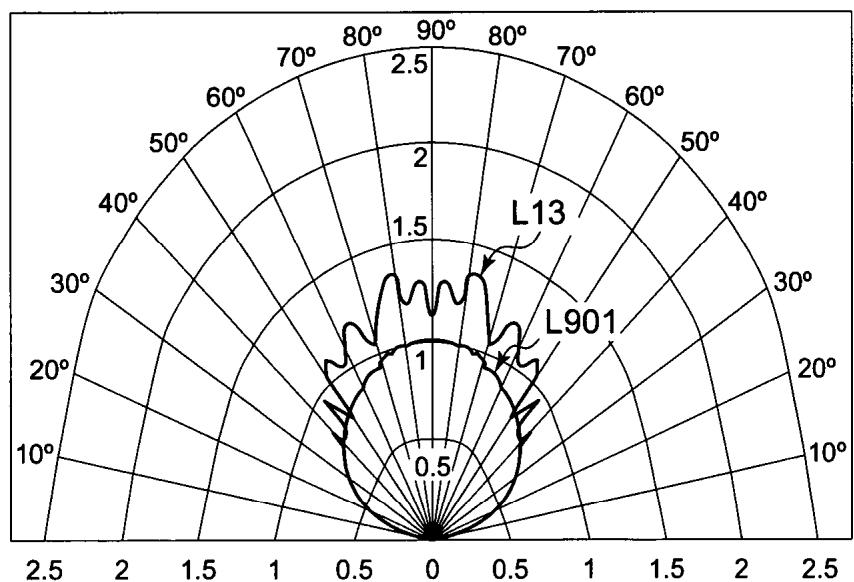
5b



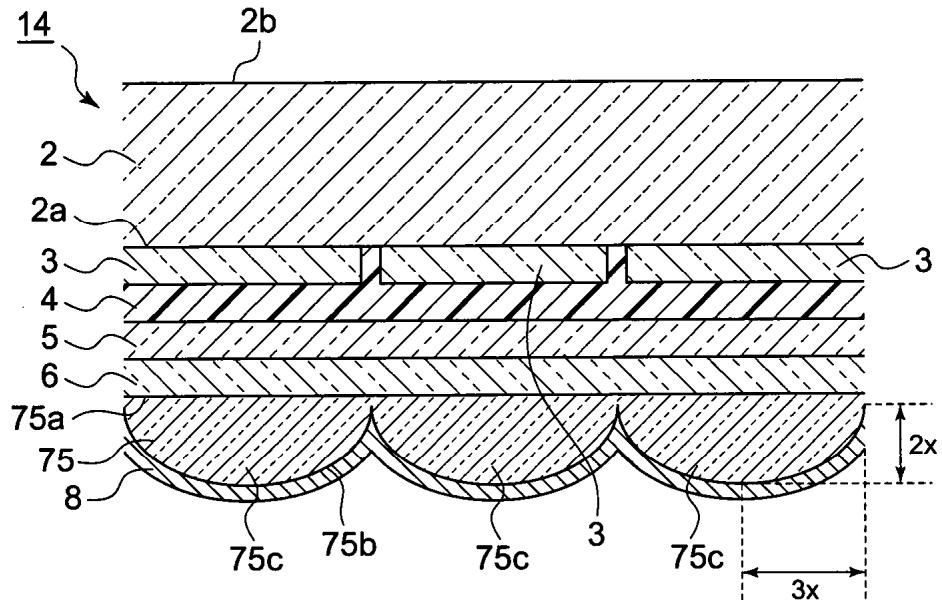
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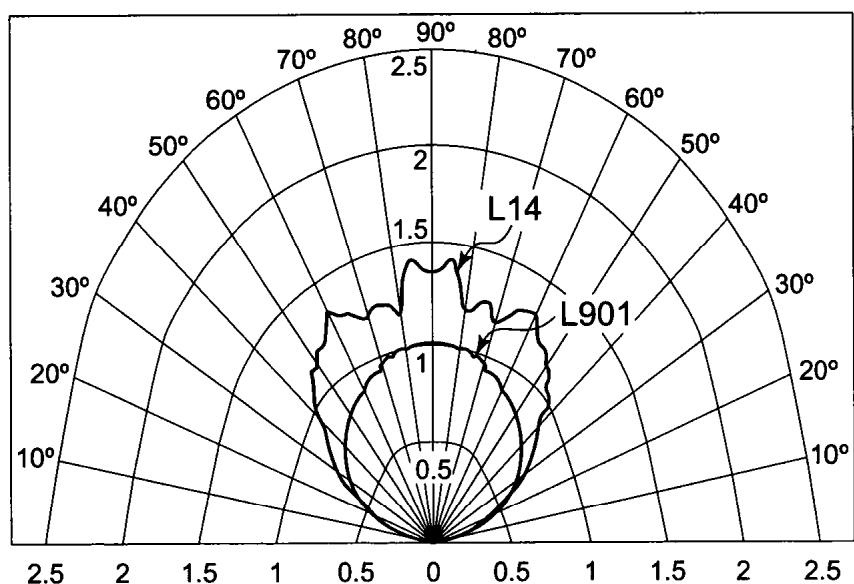
6b



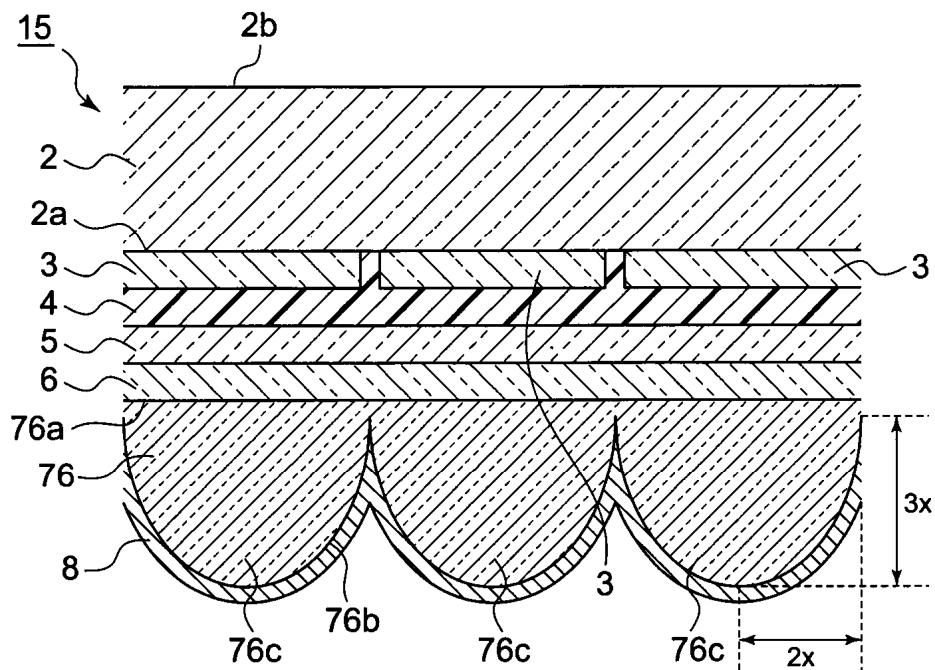
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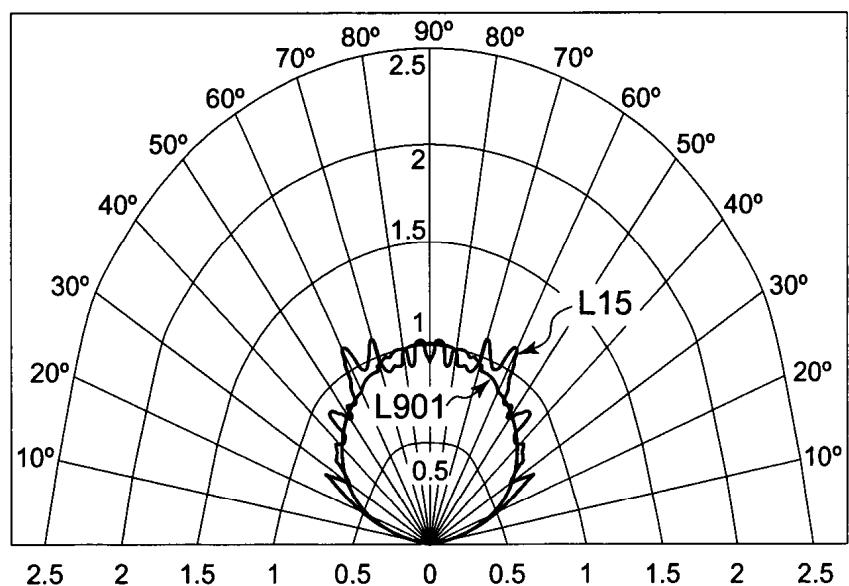
7b

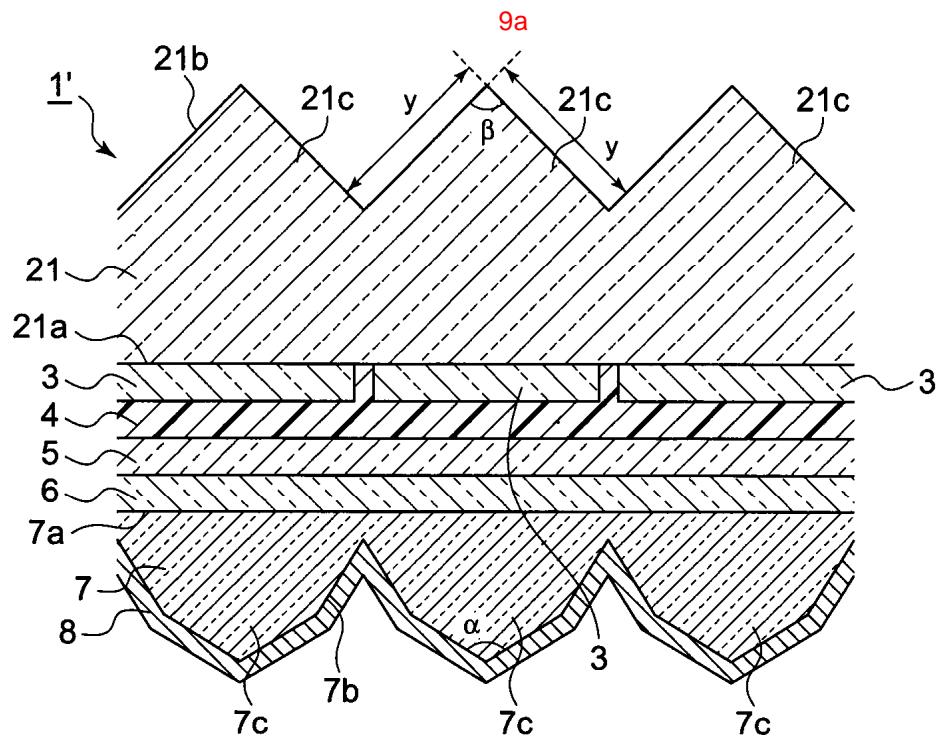


8a

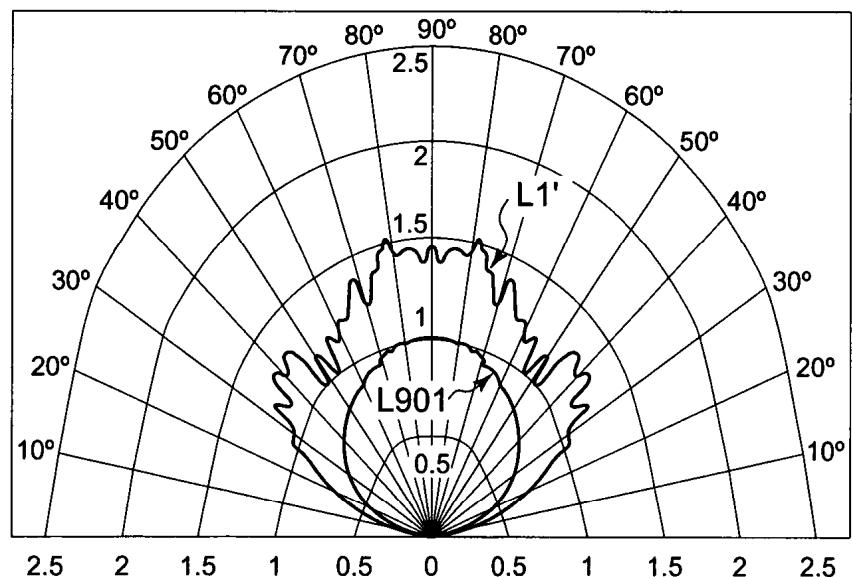


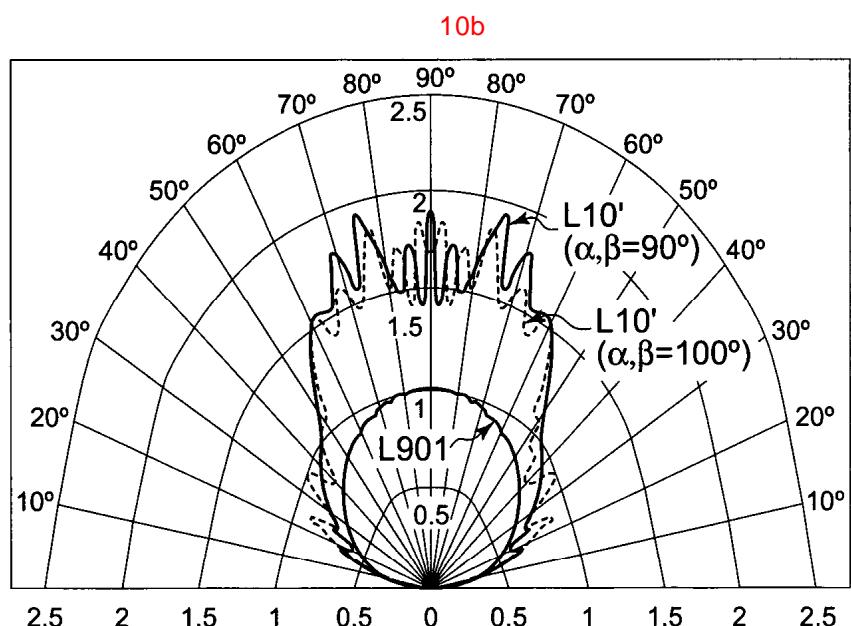
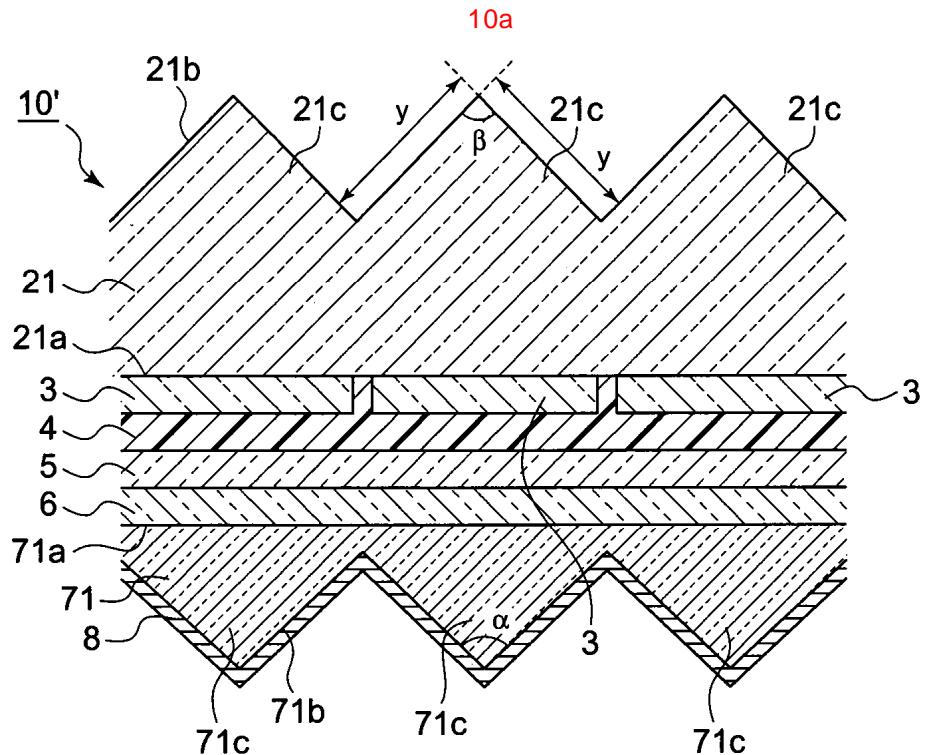
8b

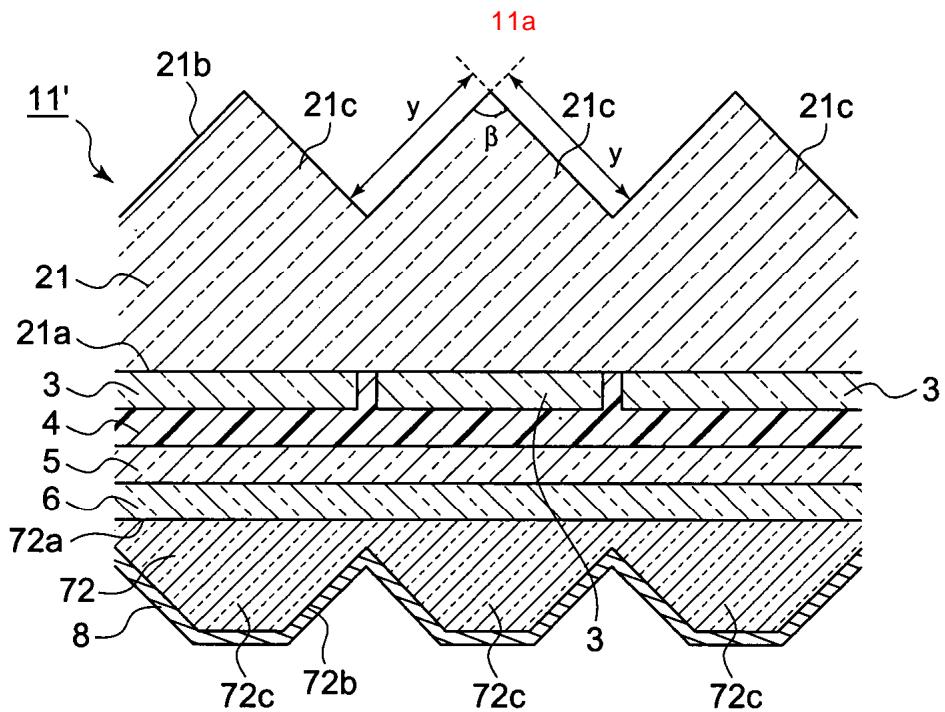
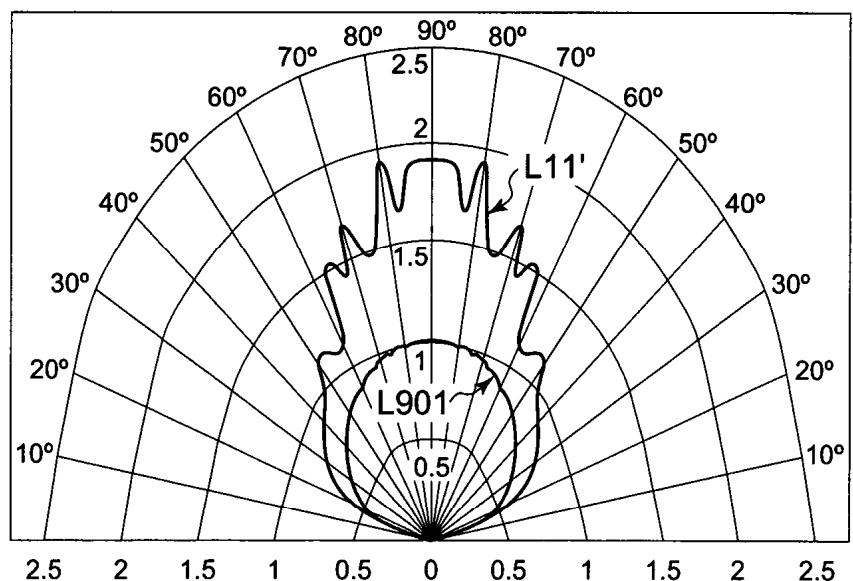


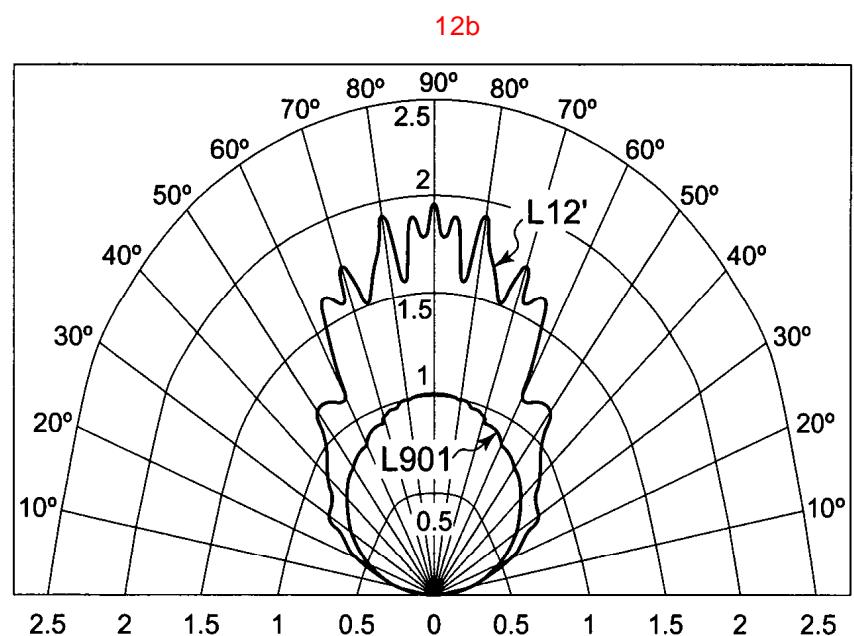
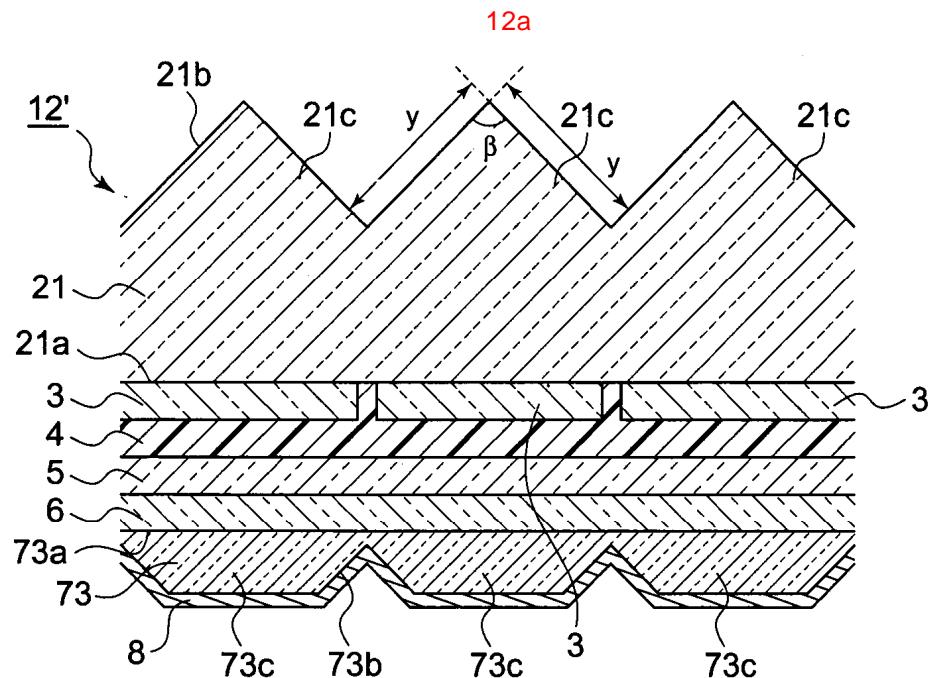


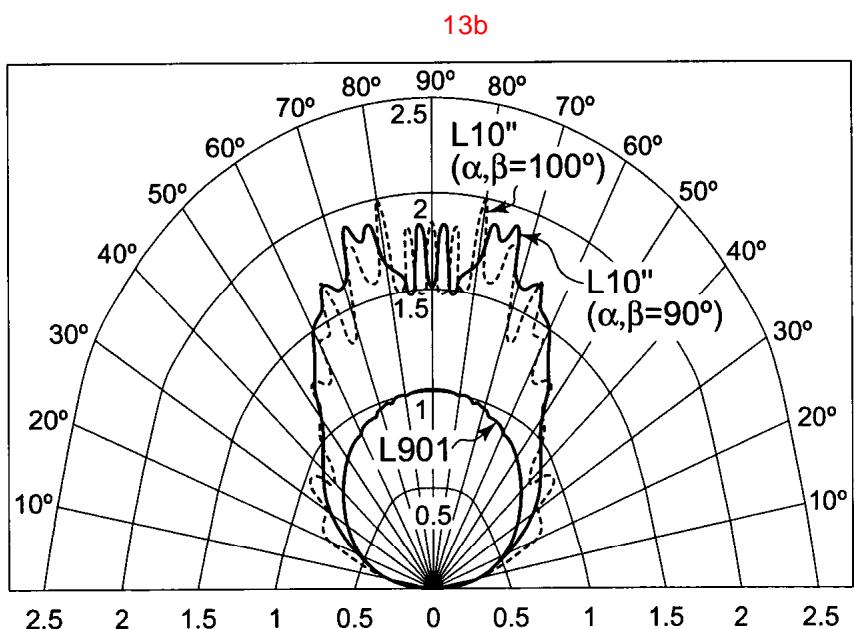
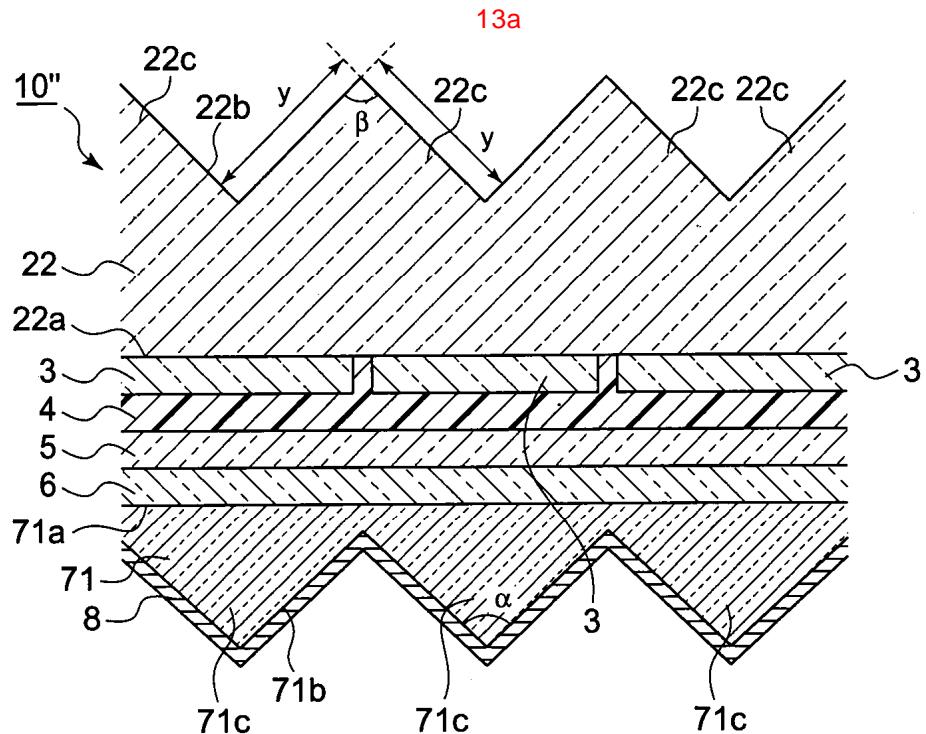
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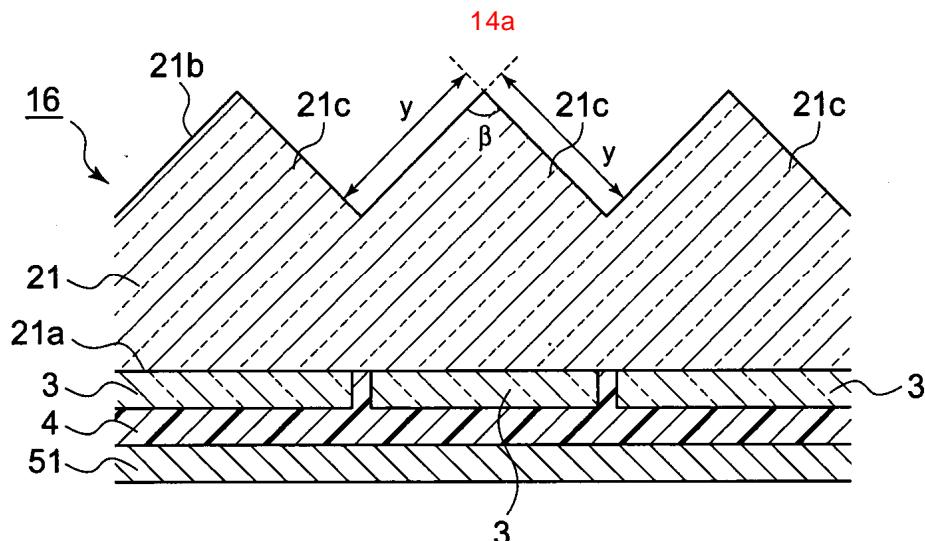




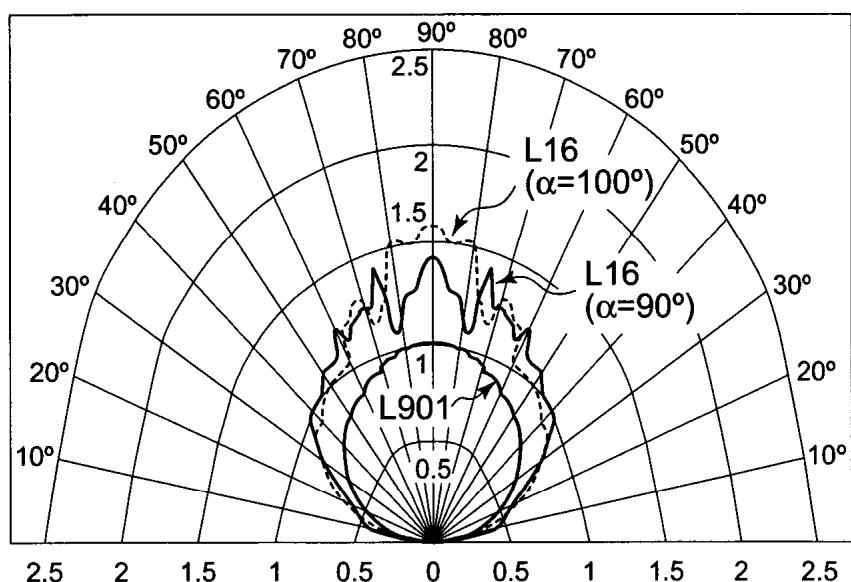
**11b**



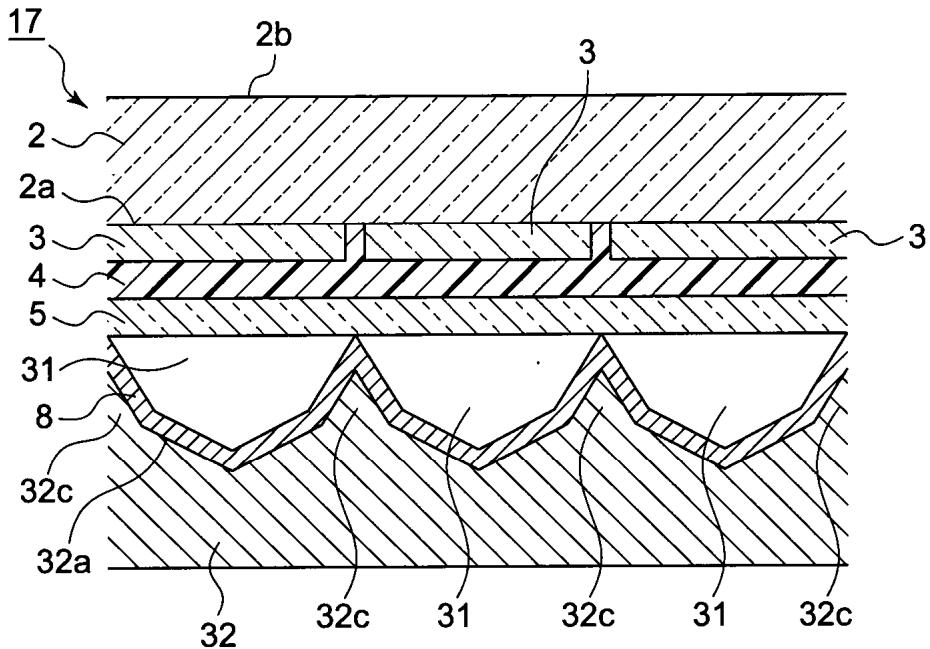




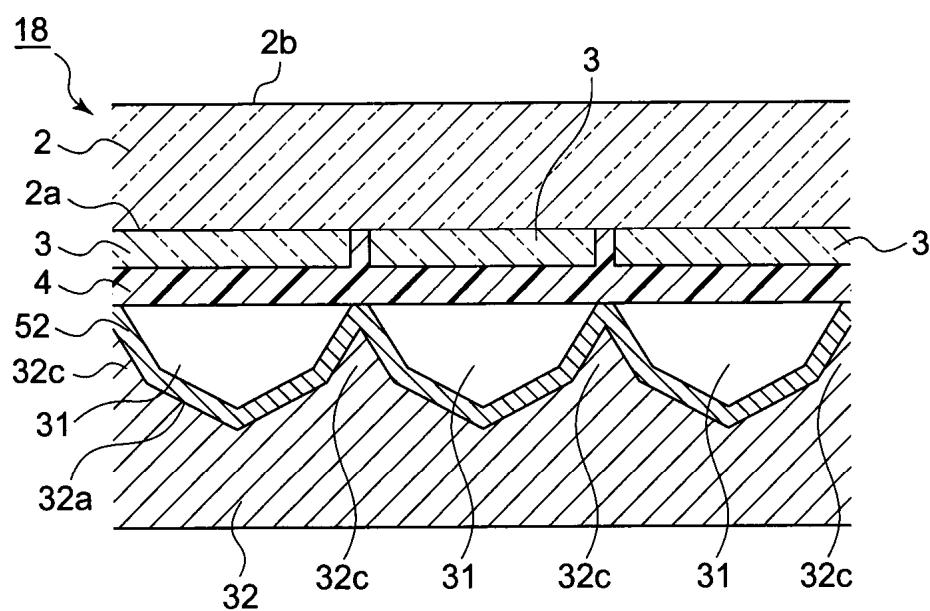
14b



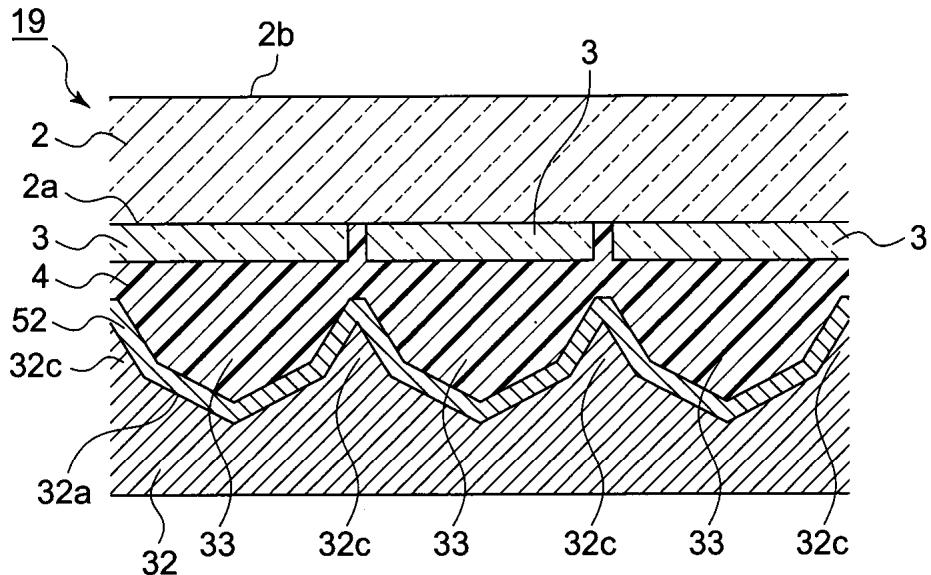
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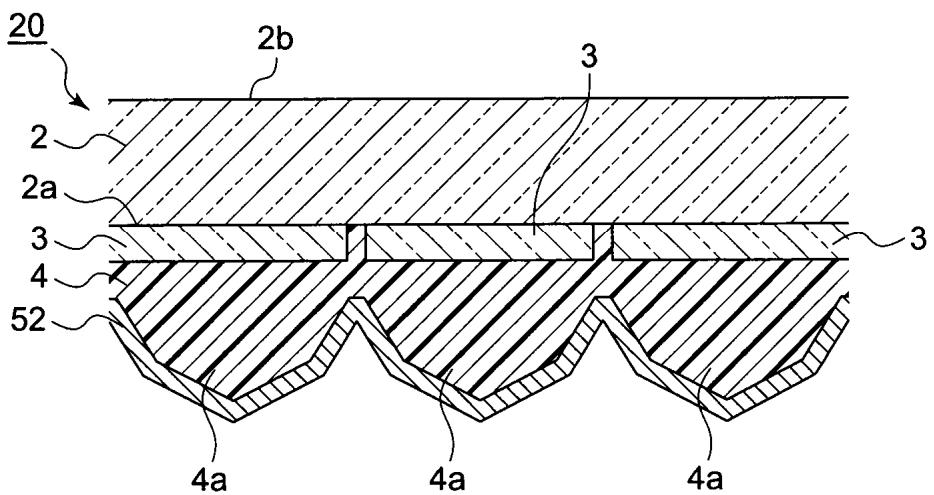
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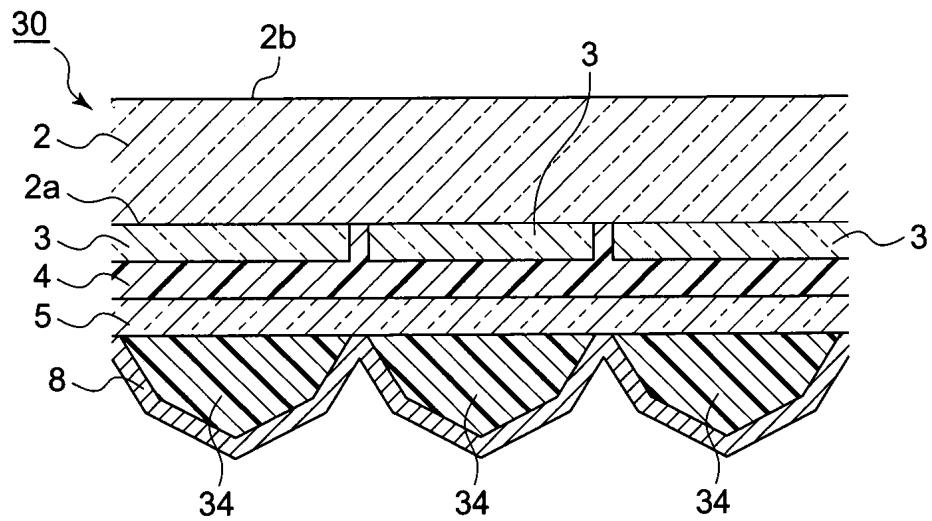
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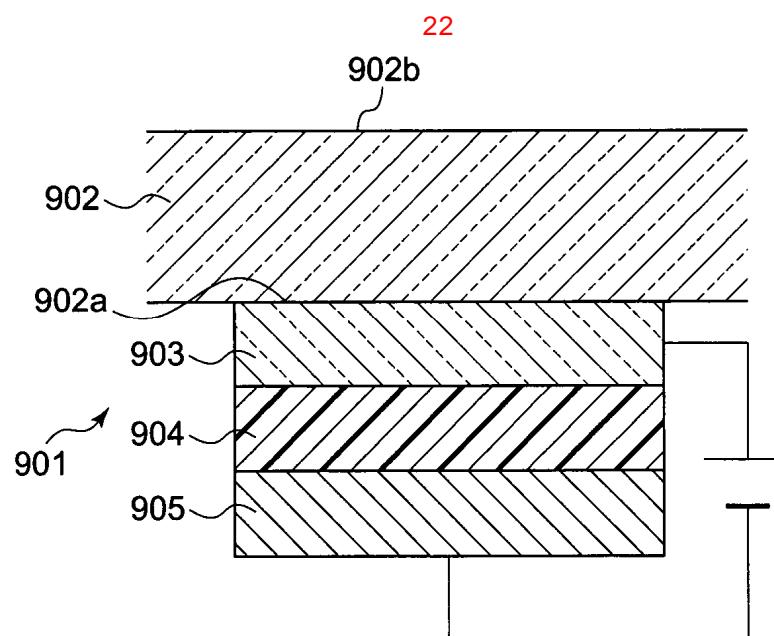
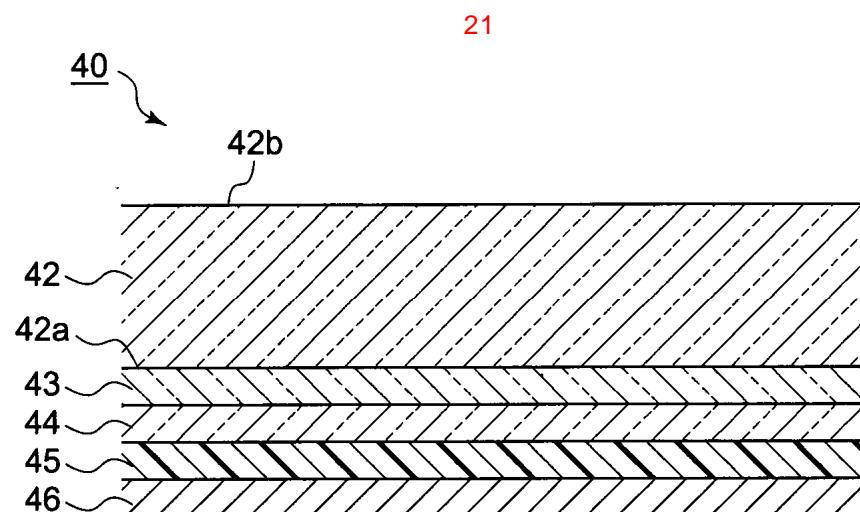
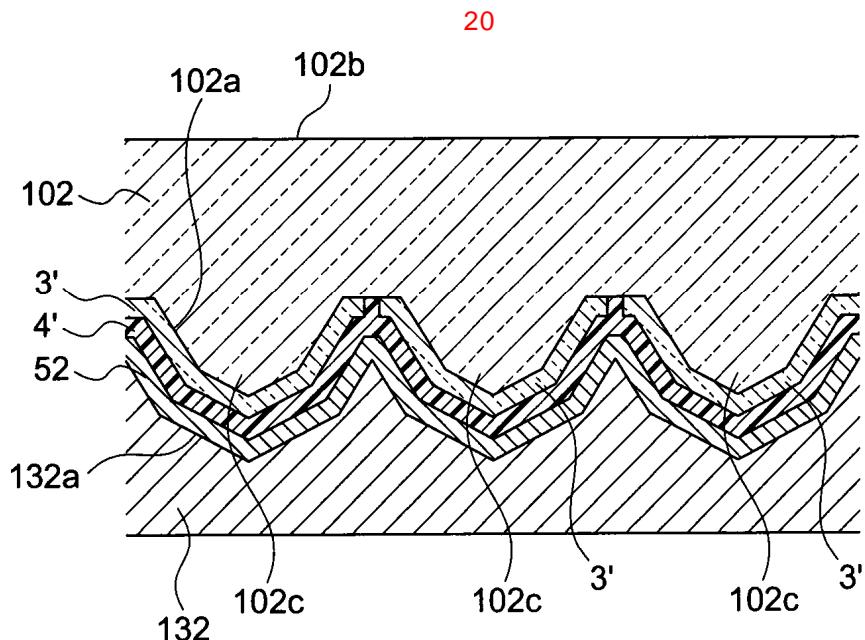


18



19





专利名称(译)	发光板		
公开(公告)号	KR1020040029433A	公开(公告)日	2004-04-06
申请号	KR1020047002149	申请日	2003-05-14
[标]申请(专利权)人(译)	卡西欧计算机株式会社 西伯利亚有限公司计算关键财富		
申请(专利权)人(译)	计算关键是否西伯利亚有限公司		
当前申请(专利权)人(译)	计算关键是否西伯利亚有限公司		
[标]发明人	TAKEI MANABU 다케이마나부 SHIRASAKI TOMOYUKI 시라사키도모유키		
发明人	다케이마나부 시라사키도모유키		
IPC分类号	H01L51/50 H05B33/22 H05B33/28 H05B33/26 H05B33/24 G02F1/13357 H01L51/52 H01L27/32 H05B33/02		
CPC分类号	H01L51/5221 H01L51/5281 H01L51/5275 G02F1/133603 H05B33/28 H01L51/5271 H01L27/3295 H01L51/5225		
代理人(译)	孙某EUN JIN		
优先权	2002138285 2002-05-14 JP		
其他公开文献	KR100581272B1		
外部链接	Espacenet		

摘要(译)

发光板包括透明基板，设置在透明基板上的第一透明电极，设置在第一透明电极上的发光层，以及设置在发光层上的第二透明电极。设置在第二电极上的反射膜通过第二透明电极反射从发光层发射的光，并允许反射光从透明基板发射到外部。图1a 指示方面 有机EL，发光板，显示器，亮度，透明基板，透镜，锥体，反射膜

