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(21)	10-2003-0005984	
(22)	2003 01 29	
(71)	.	20
(72)		301-2207
		308 502
(74)		
	:	
(54)		

pitch) () , (

,

4

1 () ,

2 ,

3 ,

4 () ,

5 ,

6a 6d

.

< >

100 : 1 104a,b,c :

108 : 110 :

112 : 200 : 2

202 :

,

.

,

(display) ,

가가 가

(color filter)

,

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,

,

,

,

R(; Red), G(; Green), B(; Blue)

,

가 ,

.

esteric Liquid Crystal) ,

가 / .

(Chol

(pitch)

가 400 700nm , R, G, B 650nm, 55

0nm, 450nm .

R, G, B ,

가 ,

,

.

(contrast) 가 가 . ,

1 . (.)

1 (20) 2 (30) , 1 (10) RGB (P_R, P_G, P_B) 1
(22a, 22b, 22c)가 . , 1 (20)

(22a, 22b, 22c) (26) 1 (26) .

2 (30) 2 (32) , (32)
(26) (40) .

(22a, 22b, 22c) .

(helical pitch)

(22a.b.c) (P_R, P_G, P_B) , 600 7
00nm, 500 600nm, 400 500nm 가 .

(22a, b, c) (curing) (baking)

(P_R, P_G, P_B) 가

2 .

2 (22a, b, c) R, G, B (P_R, P_G, P_B)

(P_R, P_G, P_B) (C_R, C_G, C_B) C_R > C_G > C_B

1 2 (d_R, d_G, d_B) d_R < d_G < d_B
가 .

(Δn)
가 (1) .

1) Δn_R d_R = Δn_G d_G = Δn_B d_B

(P_R, P_G, P_B) 1) (P_R, P_G, P_B)

3

3 (d) (λ) Δn .

3 RGB 2) 가 .

2) $\Delta n_R d_R < \Delta n_G d_G < \Delta n_B d_B$

, 가 가 .

B 가 , 1 1) 2 $d_R = d_G = d$
()
, 가 .

)가 1 2 ; 1 , , (; ; ; 2 ; (d_R, d_G, d_B) $d_R = d_G = d_B$. 600 700nm, 500 600nm, 400 500nm

)가 1 2 ; 1 , , (; ; ; ; ; 2 ; (d_R, d_G, d_B) $d_R = d_G = d_B$.

-- --

4 . 4 (100) 2 (200) (90) , , (P_R, P_G, P_B) 1 (200) , 1 (104a,104b,104c) .

(104a,104b,104c)

(108)

(108) (110) 1 (112)

2 (200) 2 (202) (202)

(112) (300)

$d_R = d_G = d_B$ (104a,b,c) (P_R, P_G, P_B) (108) 5 (d_R, d_G, d_B) (P_R, P_G, P_B)

5

5

(P_R, P_G, P_B) (104a,b,c) (C_R, C_G, C_B) $C_R > C_G > C_B$

(104a,b,c)

(100)

가

4 μ m 가

$d_R = d_G = d_B$ (d_R, d_G, d_B) d

6a 6d

6a (100) (P_R, P_G, P_B)

(102) (P_R, P_G, P_B) (100)

6b (102) 가

(P_R) (104a) (P_G) (104b) (50 (P_B))

0nm 600nm 가 (400nm 500nm) 가

(104c)

(P_R, P_G, P_B) (C_R, C_G, C_B) $C_R > C_G > C_B$

1~0.5 μ m (P_R, P_G, P_B) (104a,104b,104c) 0.

6c (104a,104b,104c)

(104a,104b,104c) (Plasma (106)

ma) (modify)

(106) 가 $4\mu\text{m}$

(106) , (100)
(108)

(108) 가

, 104b, 104c) , 6d , (108) (104a)
(P_R, P_G, P_B)

(108)

(108)

가

가

(57)

1.

, , ()가 1 2 ;

1

;

;

;

;

2

2.

1

, , (d_R, d_G, d_B) $d_R = d_G = d_B$

3.

1 ,
 , ,

600 700nm, 500 600nm, 400 500nm

4.

, , ()가 1 2
 ;
 1
 ; , ,
 ;
 ;
 ;
 ;
 ;
 ;

2

5.

4 ,
 , ,
 .

$(d_R, d_G, d_B) \quad d_R = d_G = d_B$

6.

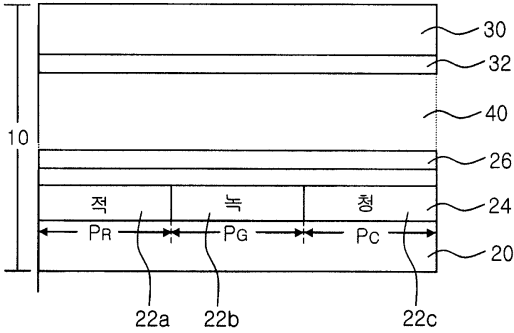
4 ,
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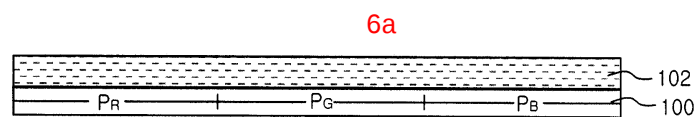
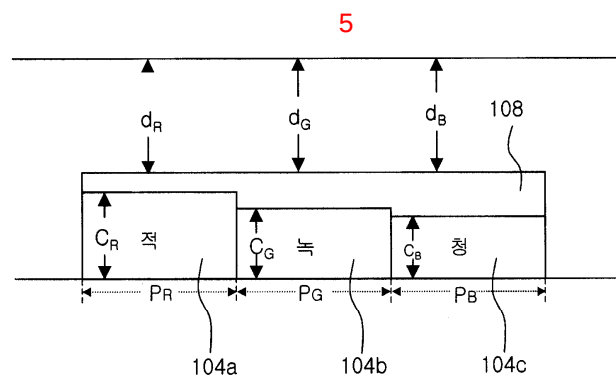
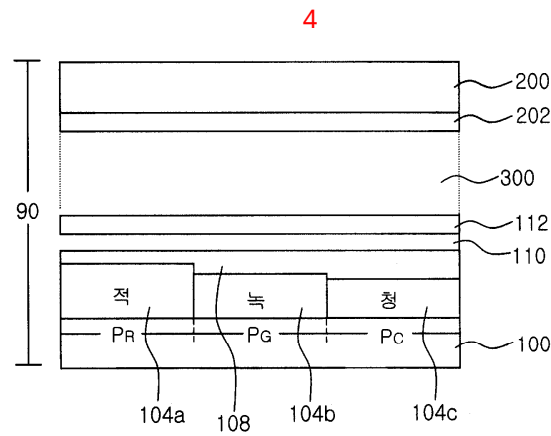
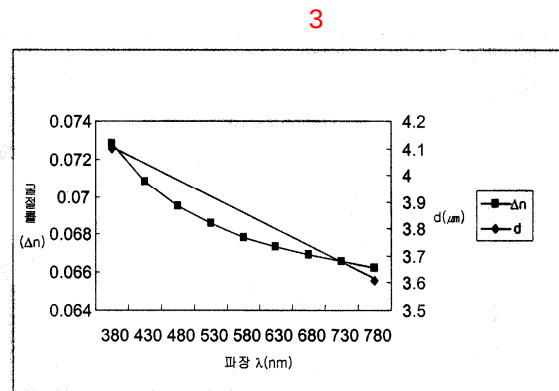
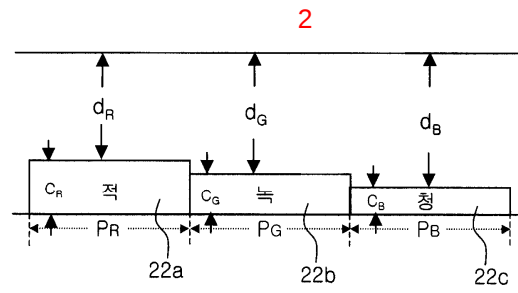
600 700nm, 500 600nm, 400 500nm

7.

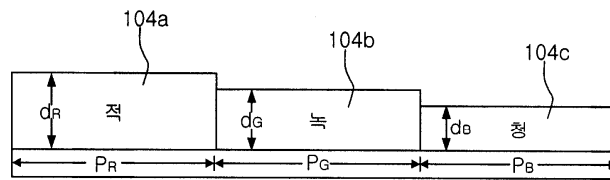
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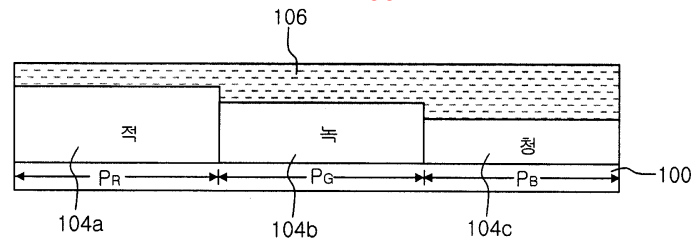




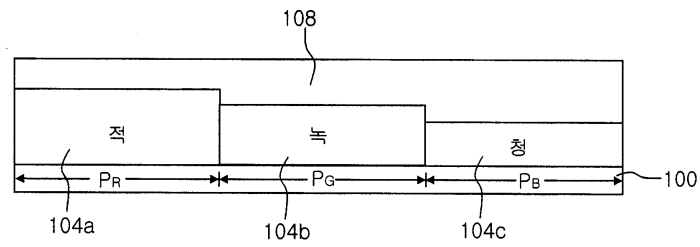
6b



6c



6d



专利名称(译)	液晶显示装置包括胆甾型液晶滤色器		
公开(公告)号	KR1020040069553A	公开(公告)日	2004-08-06
申请号	KR1020030005984	申请日	2003-01-29
[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		
[标]发明人	YOON SUNGHOE 윤성회 HUR JAEHONG 허제홍		
发明人	윤성회 허제홍		
IPC分类号	G02F1/1335		
CPC分类号	B26F3/16 B65H73/00 B65H2701/31		
其他公开文献	KR100523527B1		
外部链接	Espacenet		

摘要(译)

本发明涉及包括胆甾型液晶滤色器作为液晶显示器的液晶显示器。根据本发明的液晶显示器补偿由胆甾型液晶滤色器产生的每个子像素中胆甾醇型液晶滤色器上部对应于紫外波长带的相应液晶盒间隙的差异。暴露于反射间距的胆甾型液晶层(外涂层)更有条理。因此,可以获得与每个子像素对应的反射率特性,并且可以获得相同的改善光学效果;它具有制造高清晰度和高亮度液晶显示器的优点。

