

(19) (KR)
(12) (B1)

(21) 10-2000-0018321 (65) 2001-0094908
(22) 2000 04 07 (43) 2001 11 03

(73) .

(72) 313-1 212-807

(74)

(54)

가.

(明) (暗)

9

1			
2			
3			
4a	4b		/
5a	5b		/
6			
7	6	-	nd
8			
9			

10 9

400 :		410 :	
420 :	1	QWP	430 : 1
440 :		450 :	
460 :		470 :	
500 :		510 :	
520 :	2		530 : 2 QWP
540 :			600 :
700 :			

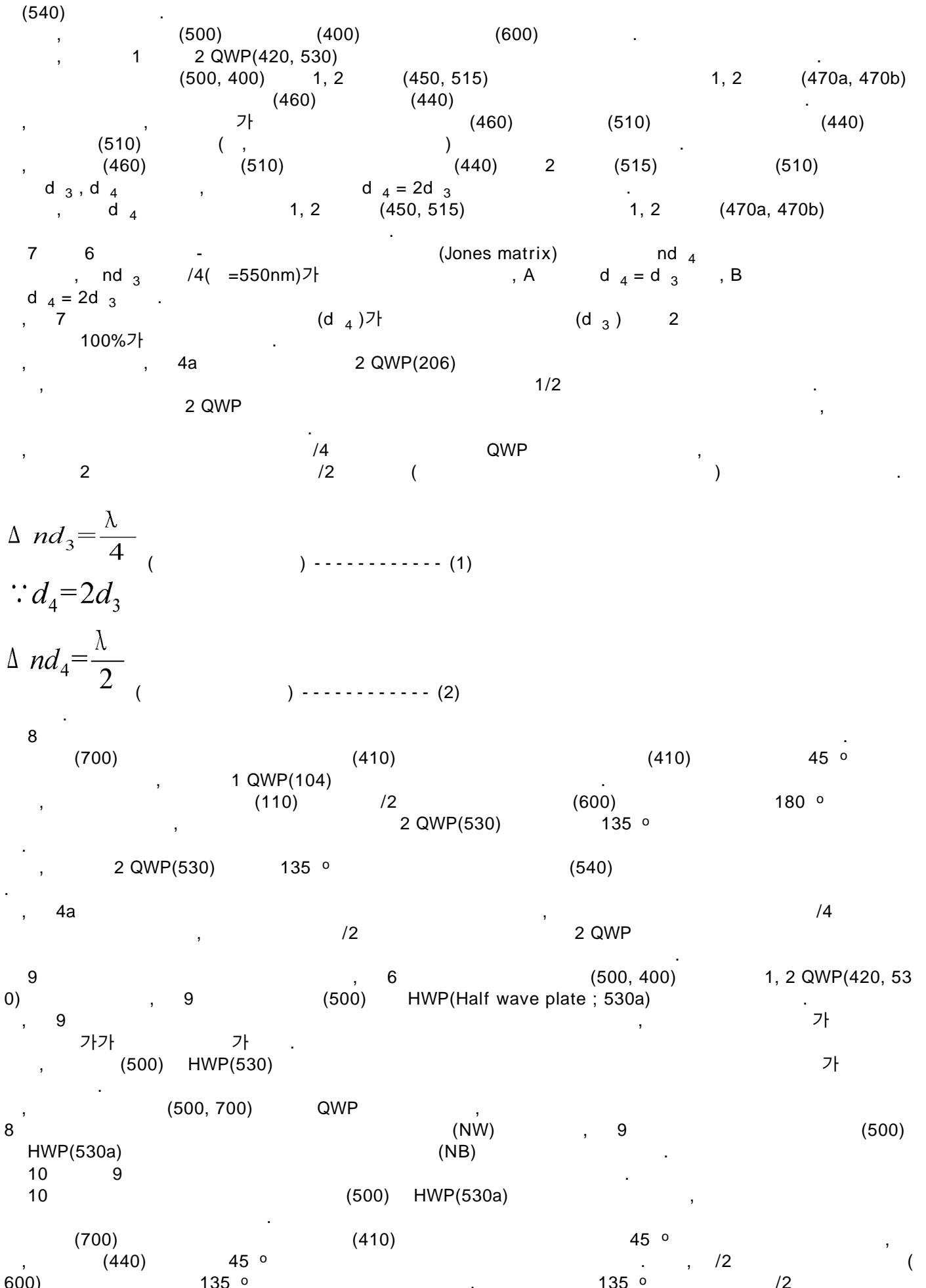
1) 가 (50) () (54) (52), (50) (6) ,
 , (60) (50) (60) (80), (50) (50)
 (70) 가 (50) (52) (74)
 , (52) (hole : 53), L
 , (53) (54) (70) (72)
 , (52) (60) TFT-LCD (74)
 , (54) (60) (70) (72) (52)
 , (54) () (60) (52) (54) 가 (50) (60) 가 (61) (80)
)
 3
 3 (108) (100) 1 (110) 1 (106) 1 (106) retardation film(Quarter Wave Plate(/4 plate)) ;
 "QWP" 1 (106) 1 (102) 1 (102) (108) (102) (110) (101) 가
 , (200) 2 (204) 2 (204) (208) (202) (202) 2 QWP(206)
) 가 , 2 QWP(206) (200) (100) (300) (300)
 1 2 QWP(104, 206) 45 ° 135 ° (208, 206, 300, 104, 102)
 4a 4b / (on/off),
 , (off state), 4a
 NW 가 (NW)
 (101) (102) (102) 45 °
 , 1 QWP(104) (110) /4 (300) 45 °
 , 2 QWP(206) (208)
 4b (on state), (101) (110) 4a
 4b , (300) 가 (300) 1 QWP(104)
 /4 2 QWP(206) 45 ° 2 QWP(206) 2 QWP(206)
 , 90 ° (208) 45 ° 2 QWP(206)
 5a 5b /
 5a (208) (208) (208) 2 QWP(206)
 , (208) 45 ° (300) 45 ° 135 ° (1
 08) /4 135 ° (108) 45 ° (300) 135 ° 135 °

4a

, 4a
가

(3).

1, 2



HWP(530a)
40)45 °
가135 °
(NB)

(5)

1, 2

1, 2
가

(57)

1.

2.

3.

4.

5.

6.

1, 2 ;

1

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1 가 1 ;

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2

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2

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가 2 ;

2

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2

2 ;

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8.

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가

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/2

11.

6

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12.

6

11

2

2

가

1

1

/4

13.

6

,

2

14.

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 1, 2 ;
 1 ;
 1 ;
 가 1 ;
 1 ;
 2 3 ;
 2 4 ;
 1 2 ;
 2 2 ;
 2 2 ;
 1 1 , 2 , 1 , 2 , 1 , 3 , 2 , 1 , 3 , 2 , 1 , 4
 ,

15.

16.

14 , /2

17.

14 , 1

가

18.

14 17 , 1 , 1 /4

19.

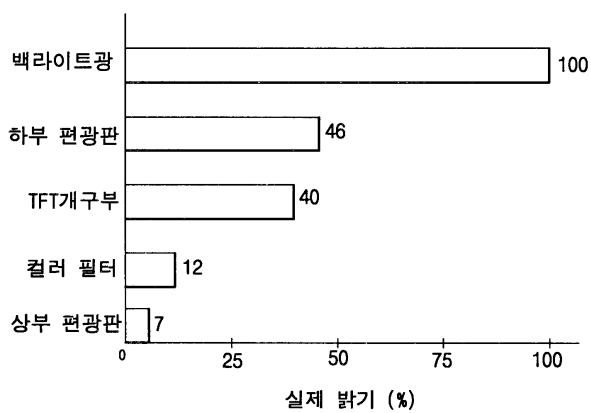
14 , , 2

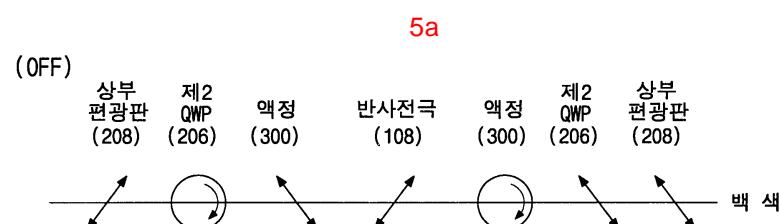
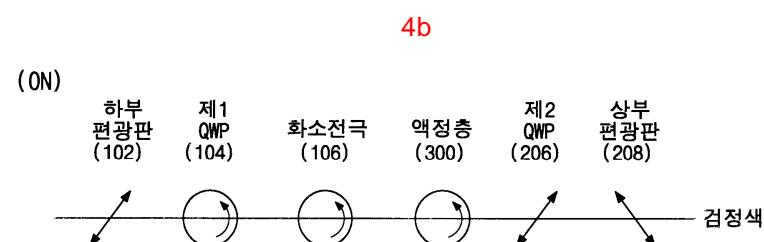
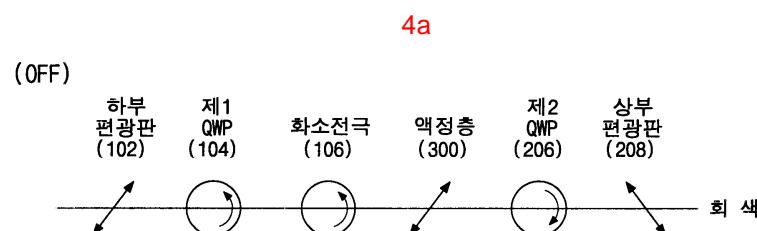
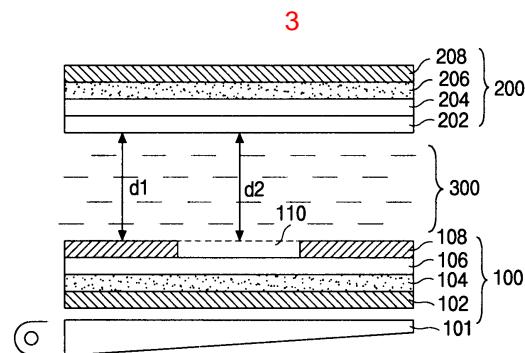
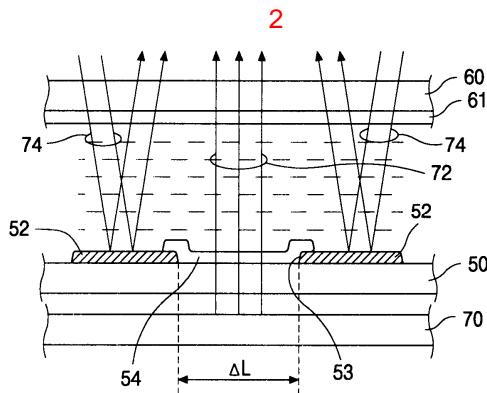
20.

14 , , 2

21.

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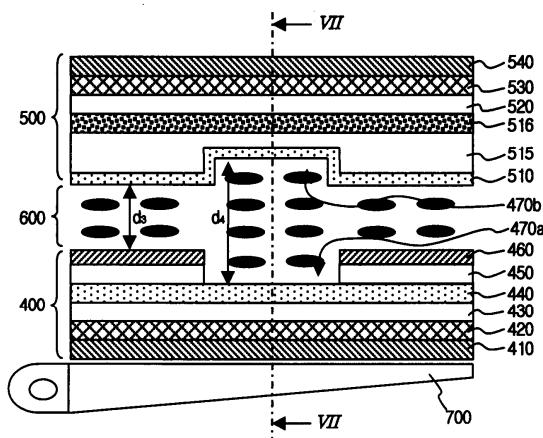
5b

(ON)

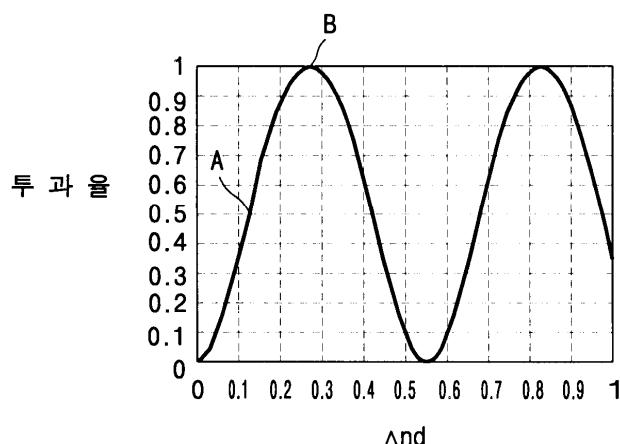
상부 편광판 (208)	제2 QWP (206)	액정 (300)	반사전극 (108)	액정 (300)	제2 QWP (206)	상부 편광판 (208)
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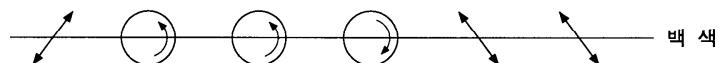


7

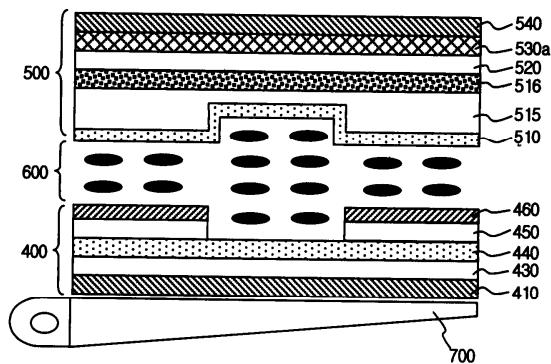


8

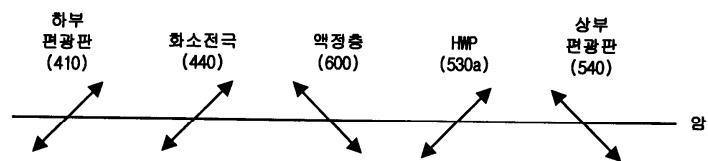
하부 편광판 (410)	제1 QWP (420)	화소전극 (440)	액정총 (470)	제2 QWP (530)	상부 편광판 (540)
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专利名称(译)	透反液晶显示器		
公开(公告)号	KR100394987B1	公开(公告)日	2003-08-19
申请号	KR1020000018321	申请日	2000-04-07
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	KIM YONG BEOM		
发明人	KIM,YONG BEOM		
IPC分类号	G02F1/1335 G02F1/13363 G02F1/1333		
CPC分类号	G02F1/133371 G02F1/133555 G02F2001/133638		
代理人(译)	贞媛KI		
其他公开文献	KR1020010094908A		
外部链接	Espacenet		

摘要(译)

一个。权利要求中的发明所属领域：透射反射型液晶显示器的技术问题。或者本发明试图解决：在透反型液晶显示器中，试图解决透明模式和反射模式或暗态的寿命亮度的分散。C。本发明方案的要点：由于透射型液晶显示器一般围绕反射模式设计，在透明模式下产生亮度下降的现象，使其在生命或黑暗状态下随着亮度的分散而产生。并且为了改善这一点，使得透射部分和反射体的液晶厚度不同并且液晶单元被组织。此时，它形成为使反射体的透射部分的单元间隙实质上加倍。

