

**(19)**  
**(12)**

**(KR)**  
**(A)**

**(51) . Int. Cl.<sup>7</sup>**  
**G02F 1/1335**

**(11)**  
**(43)**

**10-2004-0019032**  
**2004 03 04**

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(21)	10-2003-7017233		
(22)	2003 12 30		
	2003 12 30		
(86)	PCT/US2002/011962	(87)	WO 2003/005112
(86)	2002 04 17	(87)	2003 01 16

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(30)	09/897,318	2001 07 02	(US)
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(71)	55133-3427	.	.	33427
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(72)	,	,	,	33427
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,	,	,	33427
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(74)

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**(54)**

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KE

가  
가

2

(twisted nematic)

가

(front)

(rear)

0      90

(glare)

(compact)

가

(black spot)'

가

(   )  
가

가

가  
가

2

'2      2  
(dichroism)'

. 2

2가

- 2

2 H- ( ) 2 (dyestuff) . , H-  
           . H- , H- ,  
           (cladding),  
           (intrinsic) (encapsulated) H- 2

K-  
2 . K- 2 , 가 , (PVA)  
가 . K- , K- (very neutral) .  
KE . KE K- (3M Company, ) PVA  
- . PVA H- , KE .

H-, 2, , , K-, KE, KE ( )  
가 . KE

1/4 (quarter)- (retarder)  
1/4  
1/4  
2

(L) (R)

$$(100) \quad 1 \quad . \quad (102)$$

, , (104, 106) 2  
 , (108, 110), H-  
 (112, 114, 116, 118)  
 (120, 122, 124, 126) (100)  
 (32), (transflector)  
 (30)  
 H- (108, 110)  
 80 , 20 , 25  
 가 5 (100)  
 가 455  
 , , KE  
 (PET) , , KE  
 20 25

< >

,  
 ,  
 K- , KE  
 1 1  
 가  
 1  
 가

가

(tilted)  
 1 2 , 2  
 가

, 1  
 2 , 2  
 가

K-

,  
 K-  
 K-

, 가 ,  
K-  
가  
가

1  
2  
3  
4 3  
5 4  
6  
7  
8 6  
9 8  
10  
11  
12 10 11  
  
13  
14A-14C  
15

(encased)

2 (50) (52)  
1 (54, 56) (10) (50)  
Polatechno) AD-20



02)	(100)	가		가	(107)	.	(1)
ad band)	1/4-	,		1/4-	,	, 1/4-	(bro
(102)		30-60	,	(104)		16-35	
,	(107)		25-50	.	.	.	
08)	(106),	K-	KE	(102)	.	,	(1)
	5-30	.	.	15-35	.	(108)	
.	(112)	PET	(110)	(114)	(106)	.	
.	가 1	,	(110)	(112)	(Kynar) 1702	.	
(92)	, PET	5-30	, PET	(110)	(110)	12-100	
.	.	.	.	.	.	.	
	(106)	(102)		가	.	7	
,	.	.	(202)	(L) (204)	(R) (206)	.	
,	.	.	(202)가	(200)	,	.	
,	.	.	(204)	(106)	(102)	.	
,	.	.	(206)	.	.	.	(206)
,	.	.	,	.	.	.	,
(106)	(102)	.	.	(202)	.	.	
	.	.	.	.	.	.	
	(210)	.	.	(106)	(102)	.	
8	6	.	.	(120)	.	.	
.	.	.	가	(120)	.	.	
.	.	.	.	(112)	.	.	
.	.	.	1-6	(113)	.	.	
.	.	.	.	(113)	.	.	
9	6	(102)	(108)	(106)	(130)	.	(130)
,	가	100	.	(132)	6	.	.
,	가	.	.	(102)	(132)	.	.
10	.	.	.	가	.	.	
.	.	.	.	(Light Intensifying Film Technology, LIFT)	.	.	
.	.	.	.	KE	.	.	
86,799	(140)	K-	(142)	LIFT	(144)	.	5,8
.	.	.	.	PET	(148)	.	
.	.	.	.	LIFT	(152),	.	
.	.	.	.	(142)	(156),	.	
.	.	.	.	(144)	(142)	.	
.	.	.	.	(144)	.	.	
11	.	.	.	가	.	.	
E	(160)	,	.	(Tilted Mirror Film, TMF)	.	.	
8)	.	.	.	(164)	.	.	
.	.	.	.	TMF	162	PET	
.	.	.	.	TMF	(162)	.	
.	.	.	.	(166)	.	.	
.	.	.	.	(164)	.	.	
.	.	.	.	K-	.	.	
.	.	.	.	(164)	.	.	
.	.	.	.	(144)	.	.	
.	.	.	.	(174)	.	.	
.	.	.	.	.	.	.	
(176),	,	(171)	(176)	.	.	.	
12	10	11	.	.	.	.	
(180)	.	.	.	(184)	.	.	
.	.	.	.	.	.	.	

(57)

1.

2

1  
가

3.

1 , 가 K-

4.

1 , 가 KE

5.

1 , 가

가

5 , .

6 , .

7. 8. 1 , 가 가

9. 1 , 가

10. 1 , 가

11. 2 , 가

12. 2 , 가

13. 1 , 가

14. 13 , 가

15. 13 , 가 (tilted)

16. 13 , 가

17. 2 , 가 2 1 2 ,

18. 2 , 가

19. , 1 2 , 2

20. 19 , 가 K-

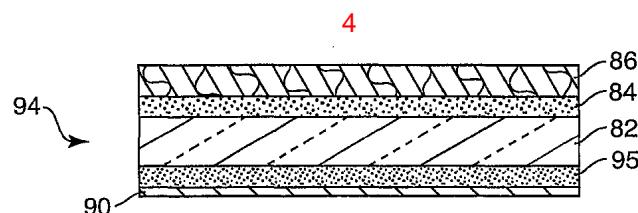
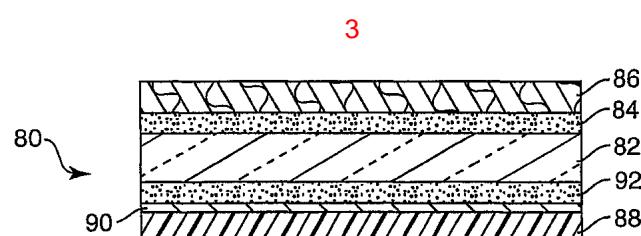
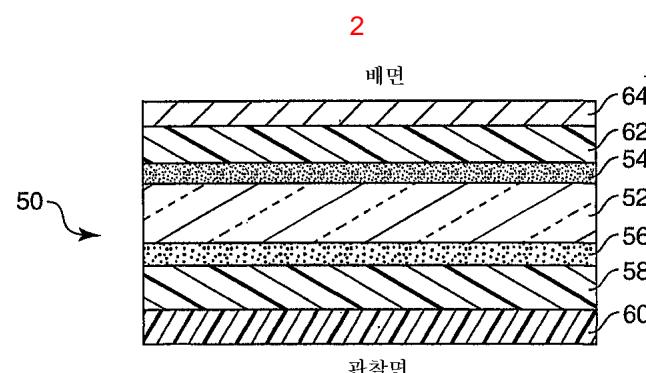
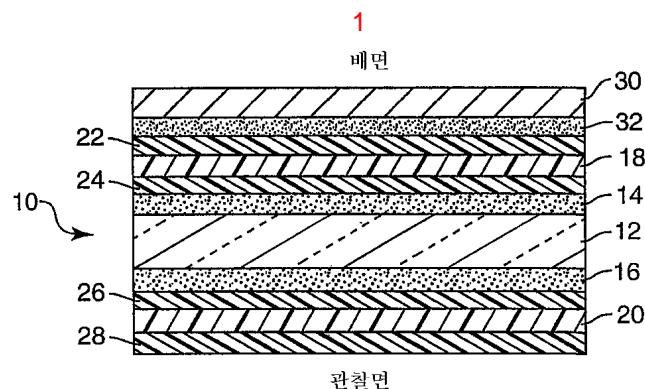
21. , K-

22.

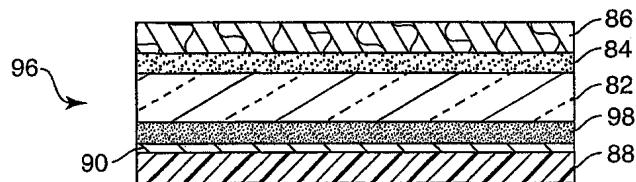
23.

1

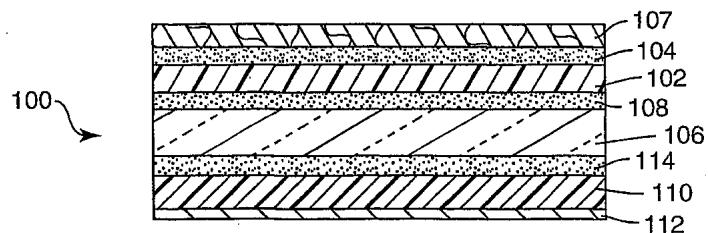
가



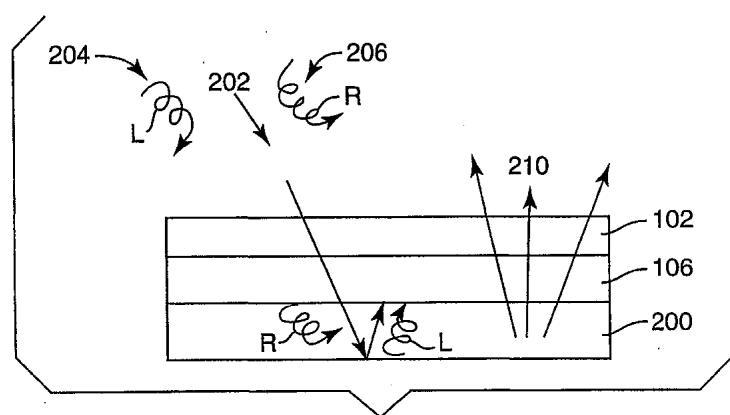
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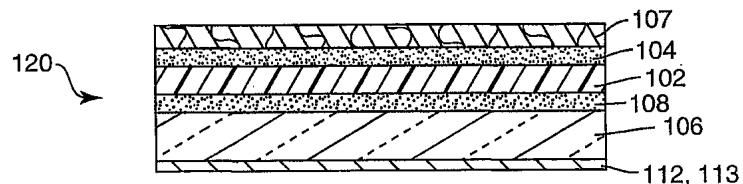
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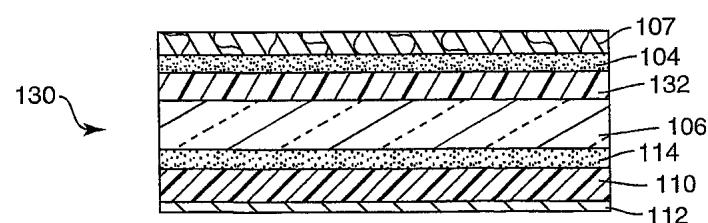
7



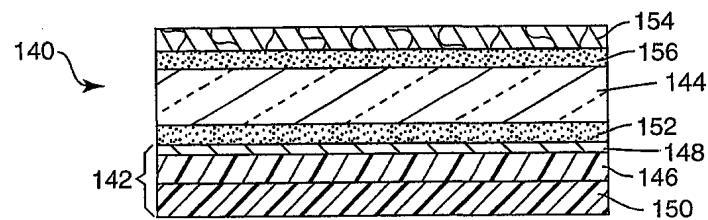
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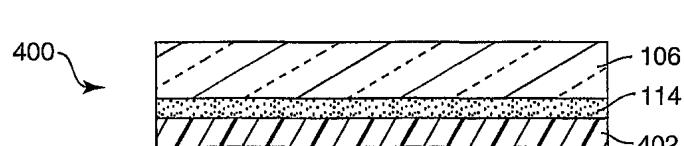
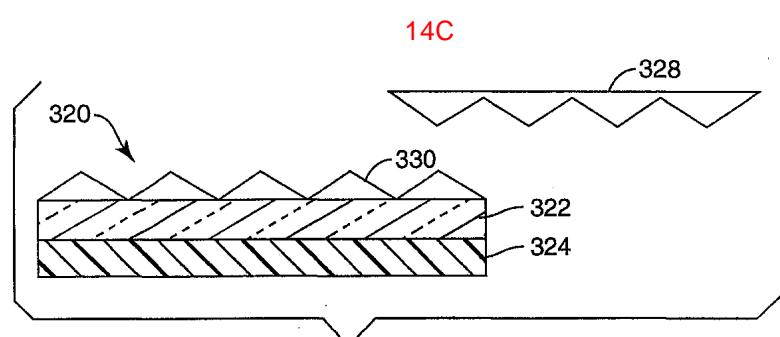
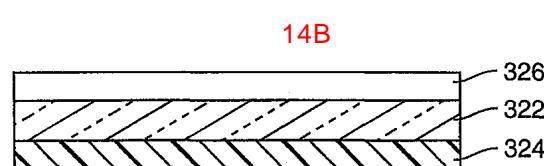
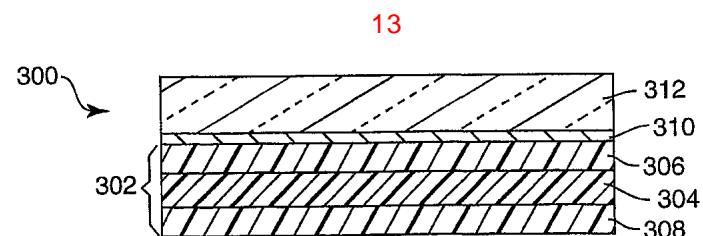
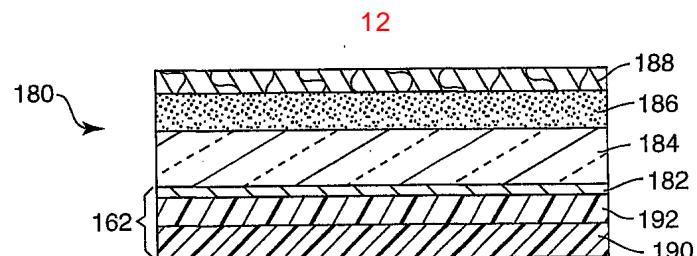
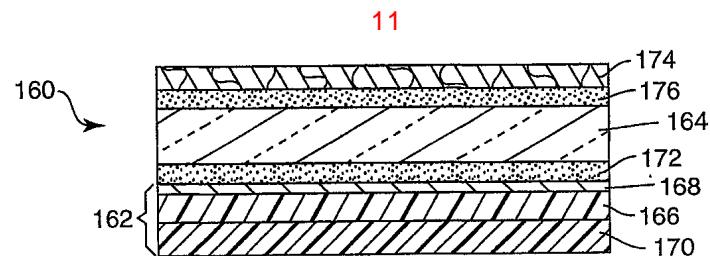


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10





专利名称(译)	用于液晶显示器的偏振器		
公开(公告)号	<a href="#">KR1020040019032A</a>	公开(公告)日	2004-03-04
申请号	KR1020037017233	申请日	2002-04-17
[标]申请(专利权)人(译)	明尼苏达州采矿制造公司		
申请(专利权)人(译)	3M创新湾执行的COM PANY		
当前申请(专利权)人(译)	3M创新湾执行的COM PANY		
[标]发明人	TRAPANI GIORGIO B SMYTH WILLIAM K RALLI PHILIP J GORDON JAMES N 고든제임스엔 CAEL JOHN J 카엘존제이 BRANCA JOHN C FORESYTH DAVID M SUZUKI ATSUSHI 스즈키아쓰시 PUGH WILLIAM		
发明人	트라파니,지오르지오,비. 스미스,윌리엄,케이. 랠리,필립,제이. 고든,제임스,엔. 카엘,존,제이. 브랜카,존,씨. 포어시스,데이빗,엠. 스즈키,아쓰시 퍼그,위리엄		
IPC分类号	G02F1/1335 G02B5/30		
CPC分类号	G02F1/133528		
代理人(译)	CHANG, SOO KIL KIM , YOUNG		
优先权	09/897318 2001-07-02 US		
外部链接	<a href="#">Espacenet</a>		

**摘要(译)**

液晶显示结构包括具有前表面和后表面的液晶显示单元。在液晶显示器单元的前表面和后表面附近设置至少一个本征偏振器，例如K偏振器和薄KE偏振片，其上没有保护涂层。或者，薄的包层或容器内碘偏振器设置在液晶显示器单元的前面和后面附近。液晶显示器结构可以与其他光学显示器构件一起使用，以改善液晶显示器的亮度和对比度。2指教方面 液晶显示器，偏振器，光学堆栈，包层，粘合剂

