

(19)
(12)

(KR)
(A)

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G02F 1/1335

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2004 03 04

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

(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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(74)

:

(54)

KE

가
가

2

(twisted nematic)

가

(front)

(rear)

0 90

(glare)

(compact)

가

(black spot)'

가

(가)

가

(가)

'2 2 (dichroism)'

2

. 2

2가

- 2

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

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

K- , KE , , , 가 . K- . 가
, K- , KE , , , 85 85%
, , , . K-
, , , , ,
가 K- , , , , ,
(PET)가 가 , , , , ,
, , , , , . K- .

1/4 -	,	1/4 (quarter) -	(retarder)
		1/4	1/4
	가	.	가

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

, , (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

(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-

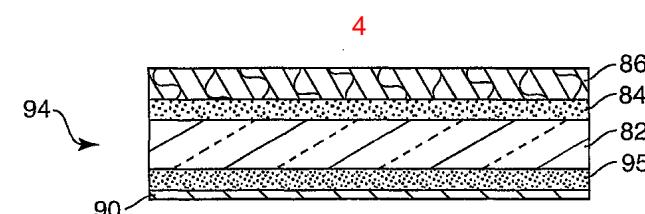
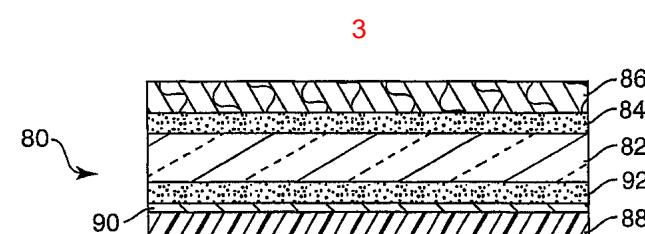
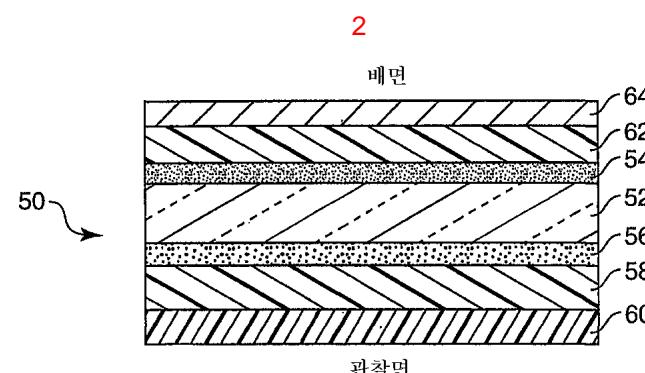
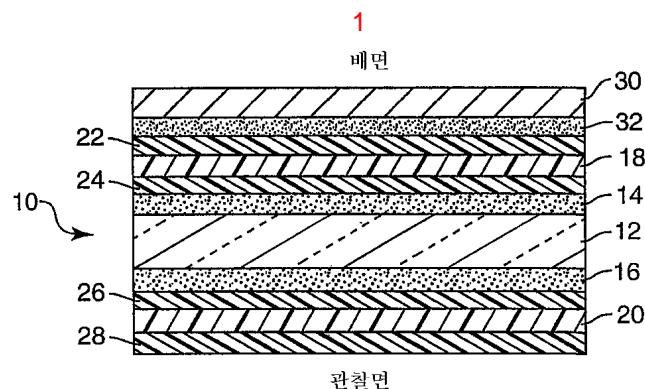
21. , K-

22.

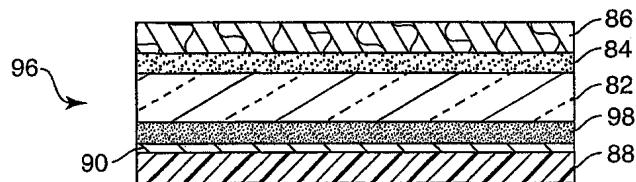
23.

1

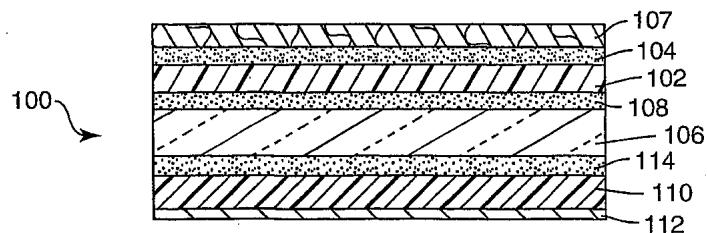
가



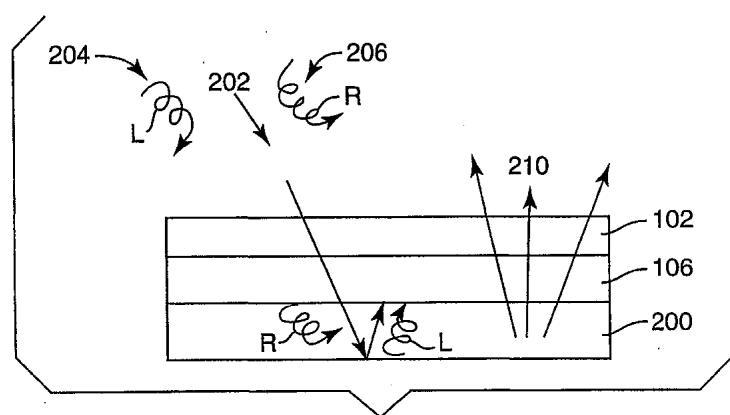
5



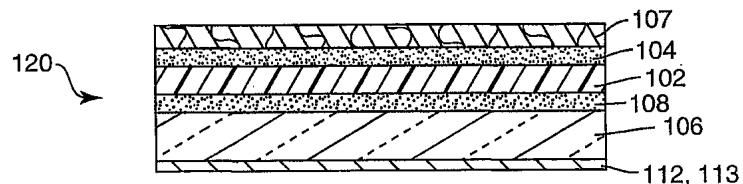
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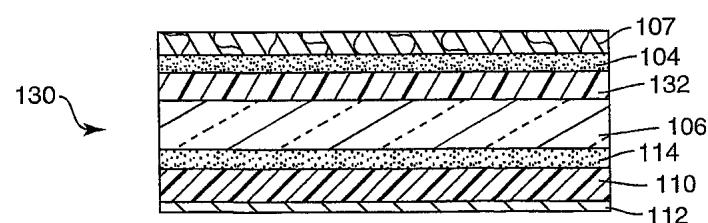
7



8



9



10

