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H01J 17/49

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(86)	PCT/US2002/025628	(87)	WO 2003/032353
(86)	2002 08 09	(87)	2003 04 17

(30)	09/975,385	2001 10 09	(US)
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(71)	55133-3427	.	33427
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(72)	55133-3427	.	33427
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	55133-3427	.	33427
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(74)

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(54)

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,  
(barrier rib)

(PDP) (PALC)  
가 (UV) PDP 가 UV ( ) PDP PAL  
가 C (HDTV)

, 550 1600  
(firing) (glass frit) 가 가 (green state)  
, PDP ,

, PDP  
(binder) (debinding)

1  
가

1

1 3

2

3 2

4 2

5

6

7

(PDP)  
(capillary channel)

(electrophoresis plate)

(PDP) 1

(23)

(21)

(21)

(23)

(51)

(32)

(R),

(G)

(53)

(B)

(address electrode)

(sustain electrode)

(53)

가

(53)

(23)

가

UV( )

(21)

, PDP

(21)

가

(crosstalk)

(51)

(21)

(23, 53)

(23)

(ind

ium tin oxide)

가

120  $\mu$ m360  $\mu$ m50  $\mu$ m

(21)

75  $\mu$ m

(51)

2  $\mu$ m15  $\mu$ m

(23, 53)

(25)

50  $\mu$ m

75  $\mu$ m

PDP (32) 120  $\mu$ m 140  $\mu$ m 20  $\mu$ m 75  $\mu$ m

(PDP ) ,  
( , ) . ,

가 ( ), 가

가 (phase)

가 600, 400 600  
,  
가 , , ,  
가  $5 \times 10^{-6}$  /  $13 \times 10^{-6}$  /  
가 CTE

, 가 가

가, PDP, 가, ZnO, B<sub>2</sub>O<sub>3</sub>, ZnO, BaO, B<sub>2</sub>O<sub>3</sub> 가  
 B<sub>2</sub>O<sub>3</sub>, BaO, B<sub>2</sub>O<sub>3</sub> 가, La<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub> 가  
 Al<sub>2</sub>O<sub>3</sub>, ZnO, P<sub>2</sub>O<sub>5</sub> 가

가  $\text{Al}_2\text{O}_3$   $\text{La}_2\text{O}_3$  CTE 가  $\text{TiO}_2$  가  $\text{MgO}$  CTE, 가

$B_2O_3$ ,  $P_2O_5$ ,  $ZrO_2$ ,  $Al_2O_3$ ,  $ZrO_2-SiO_2$ ,  $B_2O_3$ ,  $P_2O_5$ ,  $TiO_2$ ,  $SiO_2$   
가 ( )

20  $\mu m$  가 10 % 15 % PDP, PDP  
2 3  $\mu m$  가  
가  
가

가  
( ) 가  
가  
(fugitive binder)'  
PDP  
가 가

가  
가  
가  
( ) 가  
가  
가  
(cure initiator)  
가  
가

가  
가  
( $TiO_2$ )  
가  
Irgac  
ure( ) 819, 가 (Ciba Specialty Chemicals)  
가 (photoinitiator) (2,4,6- )- 가  
5,545,670 가





CT WO/0038829 09/219,803 , P  
803 PCT WO/0038829 09/219,  
PDP PALC

2  
(102) (104)

, (106) , 가 (102)  
, (108) , ,  
, (108) (102) (108) (102) (175) 가 2  
, 5 , (108) (102) ,  
, PDP ,  
6 7 가 (108) (102) ,  
, (102)

10 %, 5 %, 2 % , 50 75  $\mu$ m

, 2 , ( , )  
가 , .

가 PDP  
가 (112) (102) 가

가 , 가 , 가 , 가 , 가 , 가 ,  
CCD (102) , (112) (102) (124)  
(126) , 가 , 가 ,

1 10

가  $\text{TiO}_2$   $\text{Al}_2\text{O}_3$  (Asahi Glass Co.) 80  
 RFW030 (Sartomer Company, Inc.)  
 가 BisGMA( )가 8.034  
 .(Kyoeisha Chemical Co., Ltd.) 가 TEGDMA(  
 )가 4.326 , 7 1,3 ( )  
 3M 가 POCAII( ) 0.12 가 .0.

16 A174 ( )  
 16 Irgacur( ) 819( )  
 가 ,  
 555가 0.20  
 가  
 ( 5  
 (milling media)  
 (Union) Red Devil Model 5100  
 ( 30  
 amp Son Company) 60 3- ( 2.5;5 TRM)  
 (Charles Ross  
 (knife coater) 2.3 mm  
 (Libbey Owen Ford Glass Co.)  
 75  
 3 cm/ 125  $\mu$ m PET( 0.68 kg/cm  
 (E.I. Du Pont De Nemours and Company))  
 1.5  
 400 500 nm  
 5.1 cm(2 ) 10  
 (Phillips Electronics N.V.)  
 TLDK 30W03  
 3.8 cm( 30  
 60 , 20 2 3 / 3 / 300 , 5 / 5  
 (draft angle)

[ 1 ]

	( $\mu$ m)	( $\mu$ m)	( $\mu$ m)			
1	360	202	68	8 $\downarrow$	< 0.1 $\mu$ m	가
2	220	185	75	8 $\downarrow$		가
3	360	213	37	8 $\downarrow$	50	
4	360	213	37	8 $\downarrow$	50	
5	286	202	37	8 $\downarrow$	25	
6	286	202	37	8 $\downarrow$	50	
7	360	202	37	8 $\downarrow$	63	
8	360	202	37	8 $\downarrow$	75	
9	277	177	42	8 $\downarrow$	50	
10	277	177	37	8 $\downarrow$	25	

11 14

11 14

50  $\mu\text{m}$ 360  $\mu\text{m}$ , 213  $\mu\text{m}$ , 37  $\mu\text{m}$ , 8  $\mu\text{m}$ 

[ 2 ]

	( $\mu\text{m}$ )	( $\text{cm}/\text{m}$ )	( $\text{kg}/\text{cm}$ )	( $\mu\text{m}$ )
11	64	2	0.68	8
12	76	2	0.68	16
13	89	2	0.68	19
14	102	2	0.68	28

가

(57)

1.

2.

1 , 5%

3.

1 ,

4.

3 ,

5.

4 ,

6.

3 ,

7.

1 ,

8.

7 ,

9.

1 ,

10.

1 ,

,

11.

1 ,

12.

11 ,

13.

12 ,

14.

1 ,

15.

1 , 2

16.

,

1 ,

1 ,

가

,

,

17.

16 ,

18.

16 ,

**19.**

16

**20.**

16

**21.**

20

**22.**

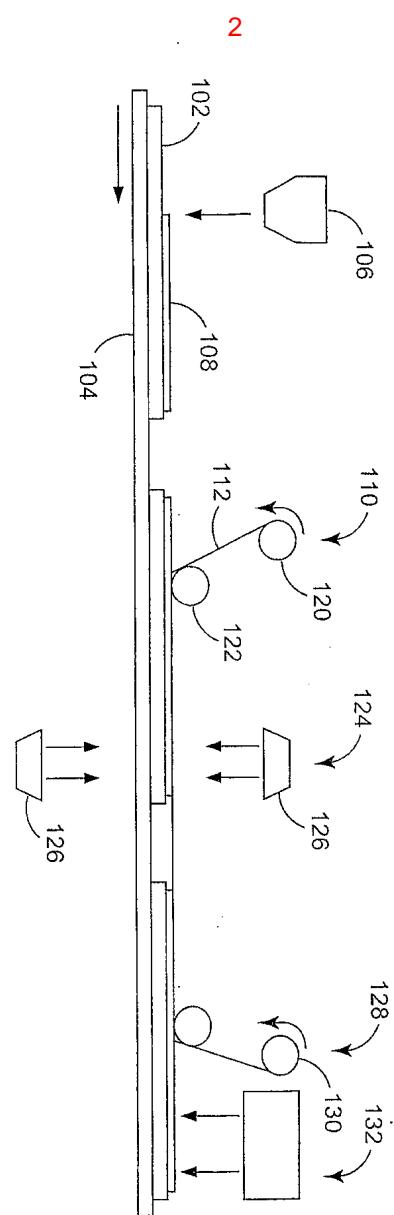
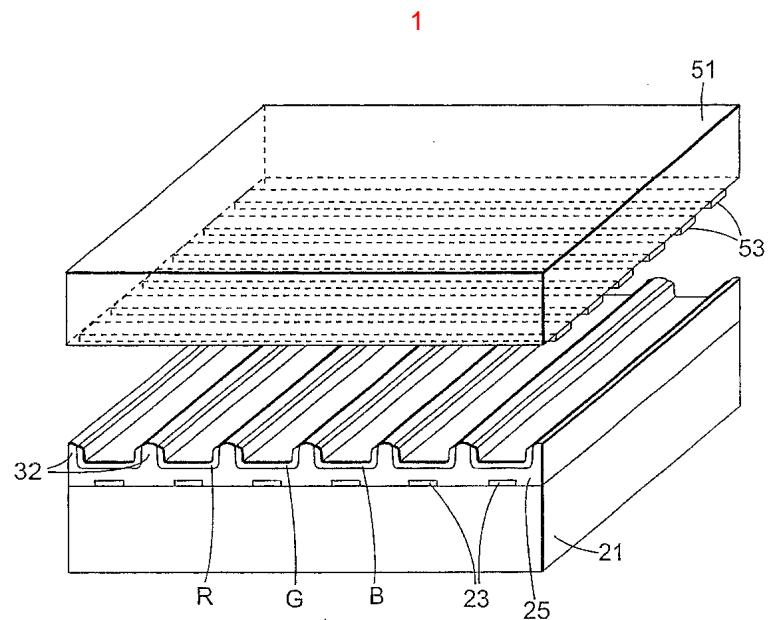
21

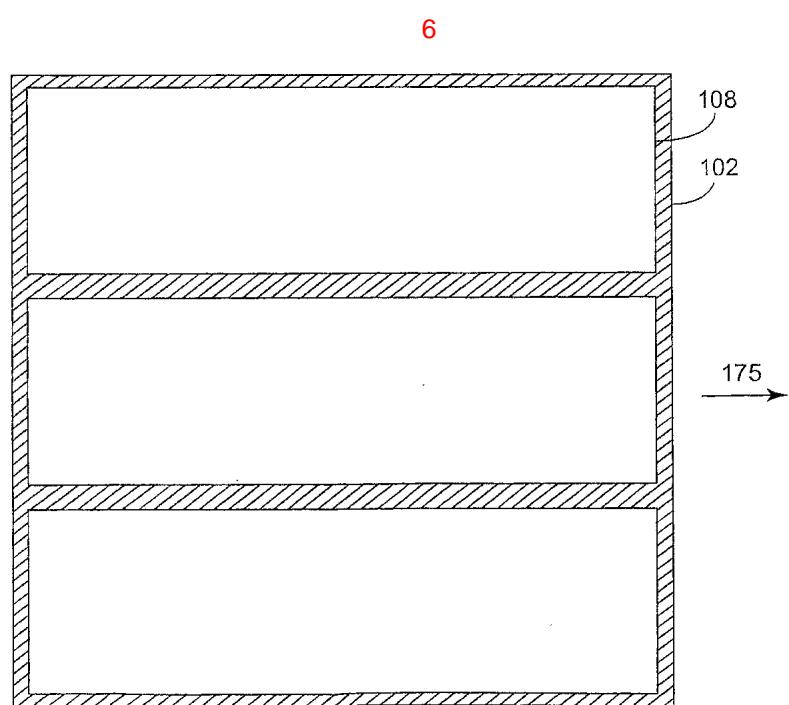
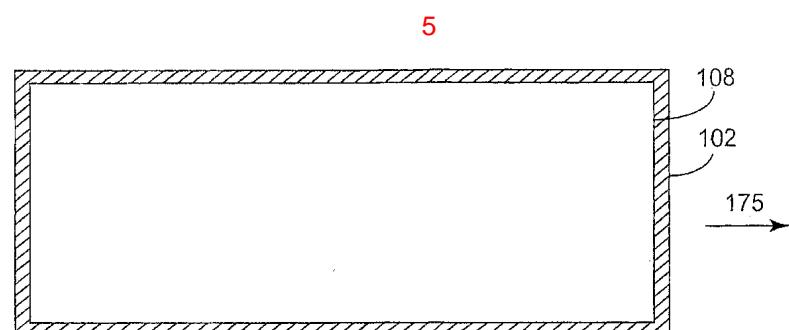
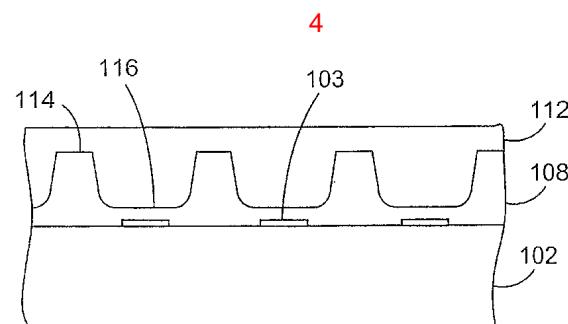
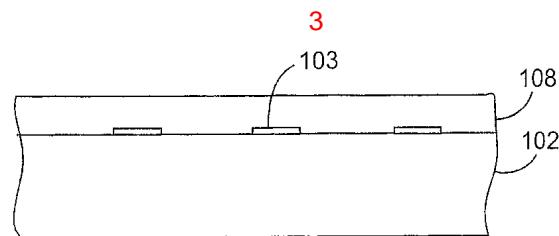
**23.**

20

**24.**

**25.**





7

