

2003-0051617
2003 06 25

(87)	WO 2002/03663
(87)	2002 12 27

1

- 1 -

1, EL 가 가, 가,

, TFT, TFT가

, 가

10A 10D, EL 가, 10A, 10B 「TFT」(902), TFT(900)(908), TFT(900)가(904)(906)(910)

(910)(904)

(910)(912) EL (914), R(), G()

, B() 가, EL (914), EL (914)

(916) EL (914) (910), (916) Fb

, 10B (920), EL (914)

(912)(926), 10A (930)(932), (926)TFT(900)

EL (914) Ff, 10A TFT(900)

, 10B TFT(900)

, EL

(926) () 가 가

, 10C (912)(950)

(926)

가, Fr (950), 10D (950)(960)

(962)(950), UV (964), 10C 가

(960)가

(tie - ring)

가 EL

EL

EL
EL
가
1/2
EL

1A	1C	1	
2A	2C	1	
3	2A	2C	
4A	4C	1	
5A	5B	1	
6A	6C	1	
7			가
8A	8B	2	
9A	9D	2	
10A	10D		

[1]

1
TFT(12)가
TFT(12)
TFT (10) , TFT (10) ,
TFT(12) ,
TFT (10) , TFT(12) , 1 (14) 1 (14) ,
PSG(Phospho-Silicate Glass)
가 1 (14) , (16A, 16B) (14)
(16A, 16B) , 1 (14)
(16A, 16B) , 2 (18) 2
(18) , 가 (16A, 16B) , 가 가
2 (18) , (16A) (18A)
1C , 2 (18) EL () (20)
가

(16A) (20) , 2 (18) (18A)

가 , 2A (22) (EL) (22) ,
 (20) EL (22A, 22B) (22) (22) (23)
 (22B) (18A) (22A) (22)
 (22A) (22B)

(22) (22) (順)
 (22) () 가

(22) (50) 2B 2C
 (50 56) (50A, 50B) TFT (10) 가 (50)
 2B (22) ((23))
 가
 EL

가

(50A, 50B) 3 (50)
 가 EL EL

(50) (50A, 50B) TFT (10) EL
 TFT (10) (50 56) ()

4A 4C , R(), G(), B() EL
 , G B R 4A , R, G, B 가
 (24) (24A)가 G ()
 G (20) G EL (26G)

() (26Ga) , 4,4',4' - tris(3-methylPhenylPhenylamino)triphenylamine(m-MTDATA)
 25nm

(26Gb) , 4,4' - bis[N - 1 - naphthyl - N - phenylamino] biphenyl(-NPD) 30nm

(26Gc) , tris(8-quinolinolato)aluminium (III)(Alq3) 50nm

4B (24) (24A) B
 B (20) B EL (26B)

(26Ba) , 4,4',4' - tris(3-methylphenylphenylamino) triphenylamine(m-MTDATA) 18
 nm

(26Bb) , 4,4' - bis[N - 1 - naphthyl - N - phenylamino] biphenyl(-NPD) 30nm

(26Bc) , 2,9-dimethyl-4, 7-diphenyl-1, 10-phenanthroli
 ne(bathocuproine) 14nm

(26Bd) , tris(8-quinolinolato)aluminium(III)(Alq3) 30nm .

4C R (24) R (24A) R EL (26R) .

(26Ra) , 4,4',4' - tris(3- ethylphenylphenylamino)triphenylamine(m-MTDATA) 55 nm .

(26Rb) , 4,4' - bis[N - 1 - naphthyl - N - phenylamino] biphenyl(-NPD) 30nm .

(26Rc) , 2,5 - bis[4 - (N - methoxyphenyl - N - phenylamino)styryl] benzene - 1, 4 - dicarbonitrile(BSB - BCN) 14nm .

(26Rd) , tris(8-quinolinolato) aluminium(III)(Alq3) 30nm .

EL (26) , 5A () (28) EL (26) EL (26) 14nm 가 (28) , (22) (23) .

5B () (30) , CVD (30) , EL (26) 100 가 .

2C 4 (50 56) , R, G, B (60) 2 , (50 56) R, G, B .

(60) , 6A UV (62) , 6B (64)가 (66) (60) 1 (66) (50 56) (60) , UV (60) (62) (66) (66) (UV (62) 7) .

4) 6C 가 UV (60) (62)가 (66) (60) (6) (66) 100 μ m (64)가 (22) (23) , (50 56) 6C UV UV (68) (62) (70) (60) (66) , (70) (23) 가 (64) (50 56) (68) , (64) .

[2]

2 , 6A 6C

, (50 56) (68) (22)가 2 (22) (23)
 (64) (64) , 6A 6C EL (26) (64)
 , 가 , (68) (23)
 (64)
 , (68) (22) , (22)
 (23)
 , (22)
 .
 , 8A (50) , (5)
 0A, 50B) (123) WA , (22) (23)
 WB , WA<(WB/2) (123)
 , 가 (122) 가
 8B , 3 , EL (26),
 (28), (30) ,
 , 2C 4 (50 56) (60) 9A
 (68) WB/2 (122) (60)
 WB , (22) (60)
 9B UV (62) , 9C (164)가
 (66) (60) (60) 9D 가
 , (60) (66) (164) UV (62)
 , 9D (170)
 9B 9D (60) 1 가
 (170) , (122)가 , 가
 , 가 , 가
 []
 가 , 가 ,
 .
 (1) , 가 , 가 , 가
 , 가
 .
 (2) (50) 10C 10D , 가 , EL
 , , EL
 , 10C (930)
 (932) 가
 .
 (3) , EL ,
 , 가
 .
 (1) 가 ,

$$(2) \quad \begin{aligned} & \text{if } \text{is_array_type}(T) \text{ then} \\ & \quad \text{if } \text{is_array_type}(T) \text{ then} \\ & \quad \quad \text{if } \text{is_array_type}(T) \text{ then} \\ & \quad \quad \quad \text{if } \text{is_array_type}(T) \text{ then} \end{aligned}$$

(3) 가 , EL , 가

(57)

가 .

7 8.

EL

EL

가

EL

(60)

, UV

(62)

(66)

, UV

(62)

(66)

(64)가

(22)

(23)

(50 56)

(68)

, UV

UV

(62)

(6

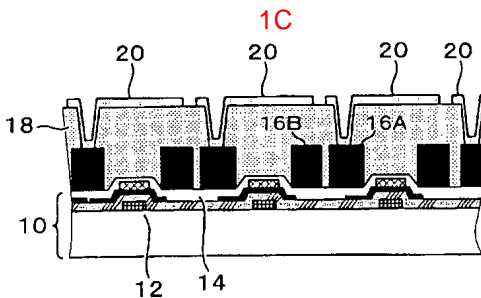
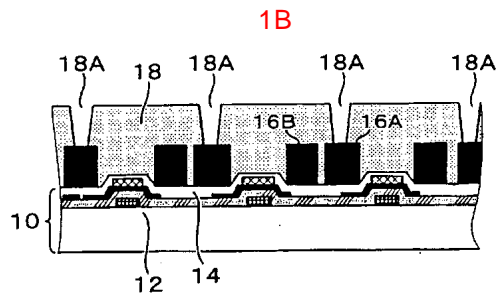
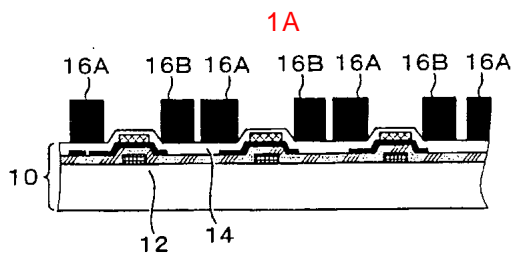
0)

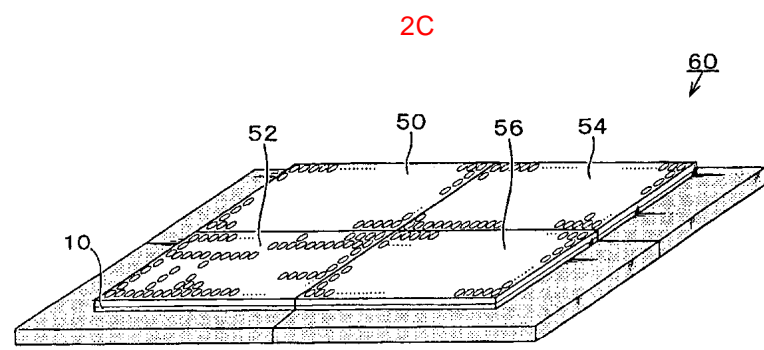
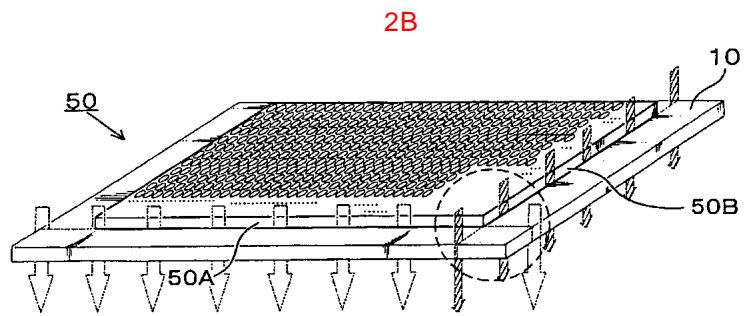
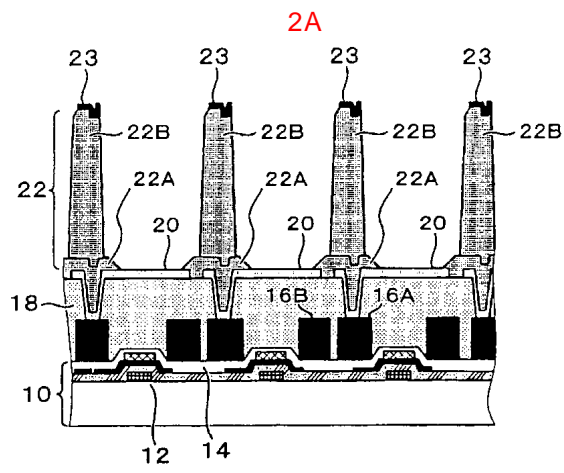
(66)

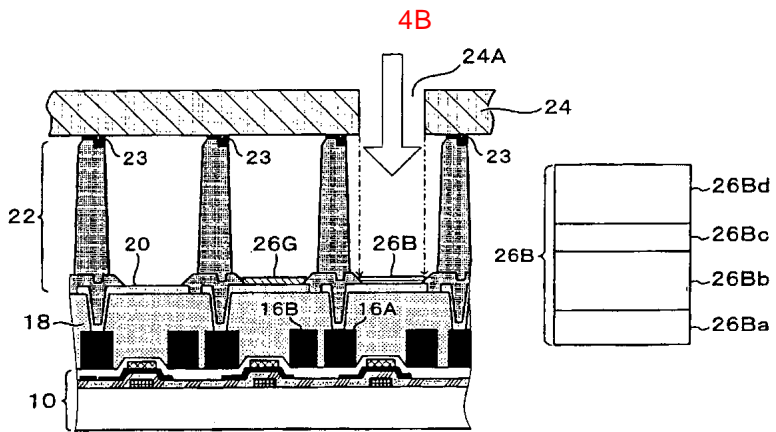
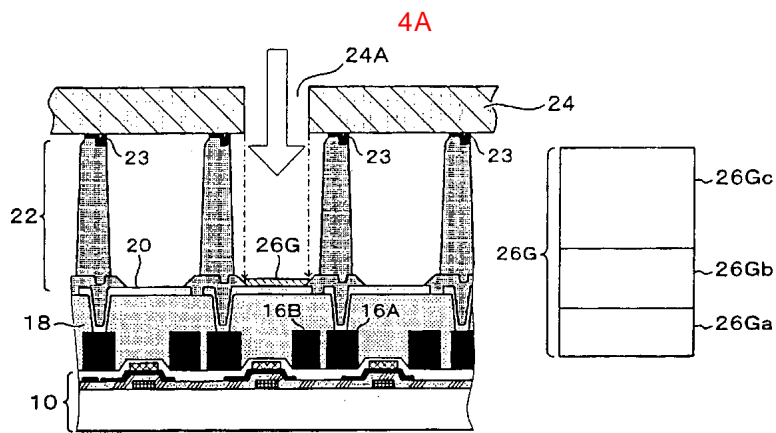
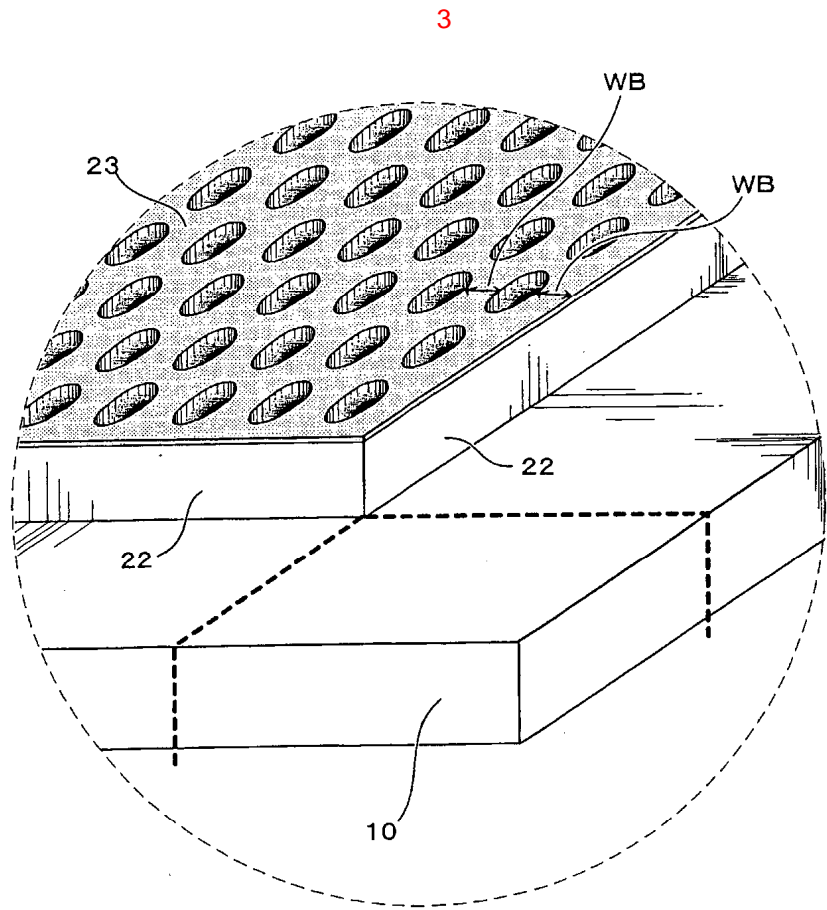
(70)

6C

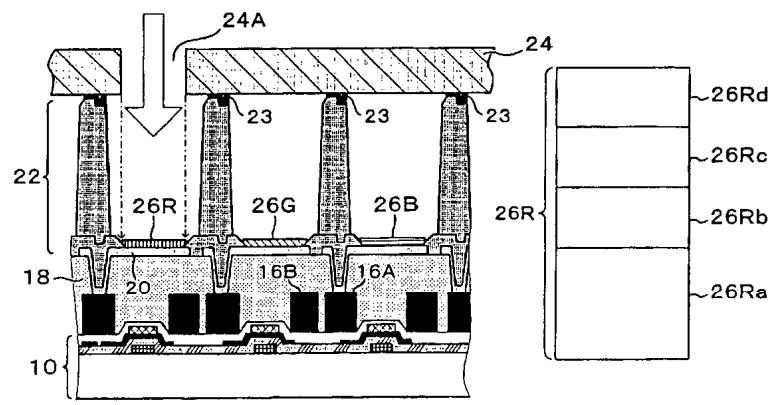
EL,



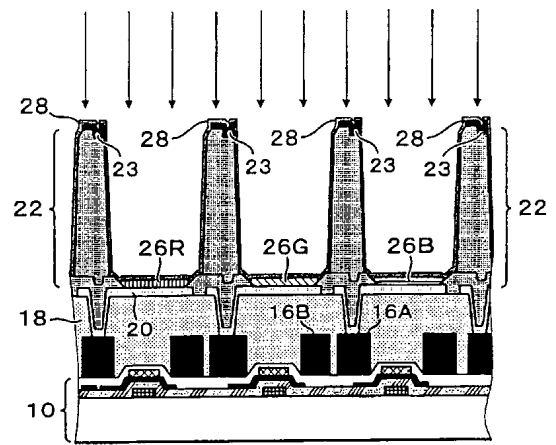




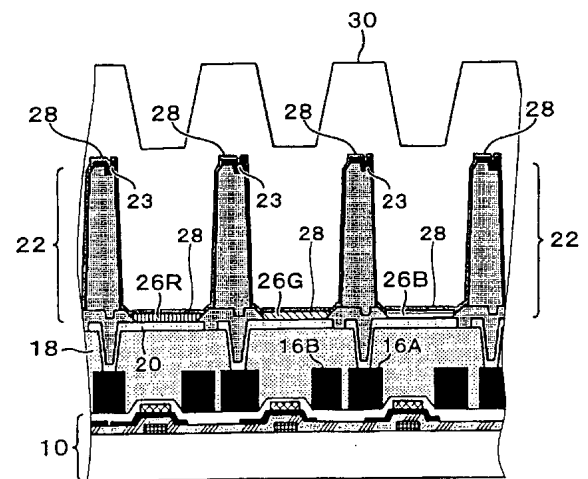
4C



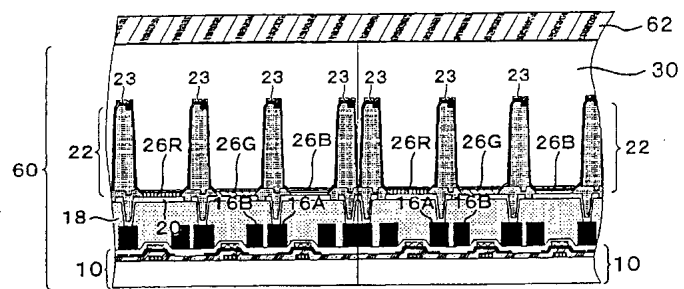
5A



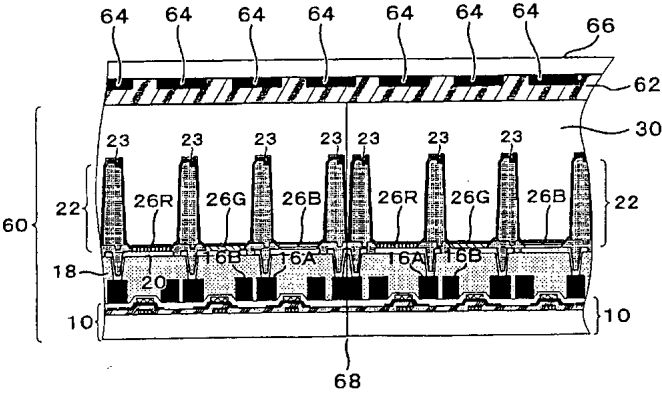
5B



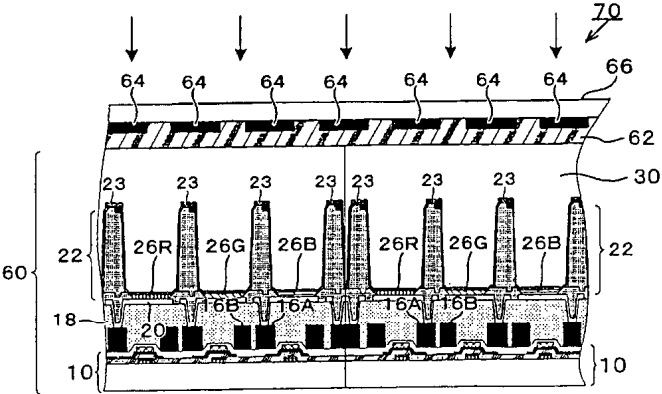
6A

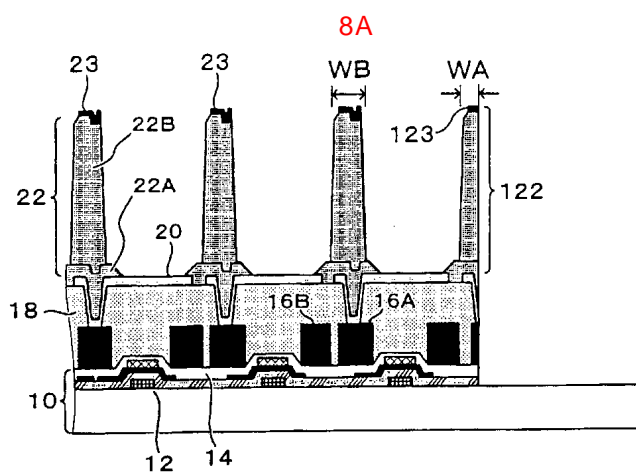
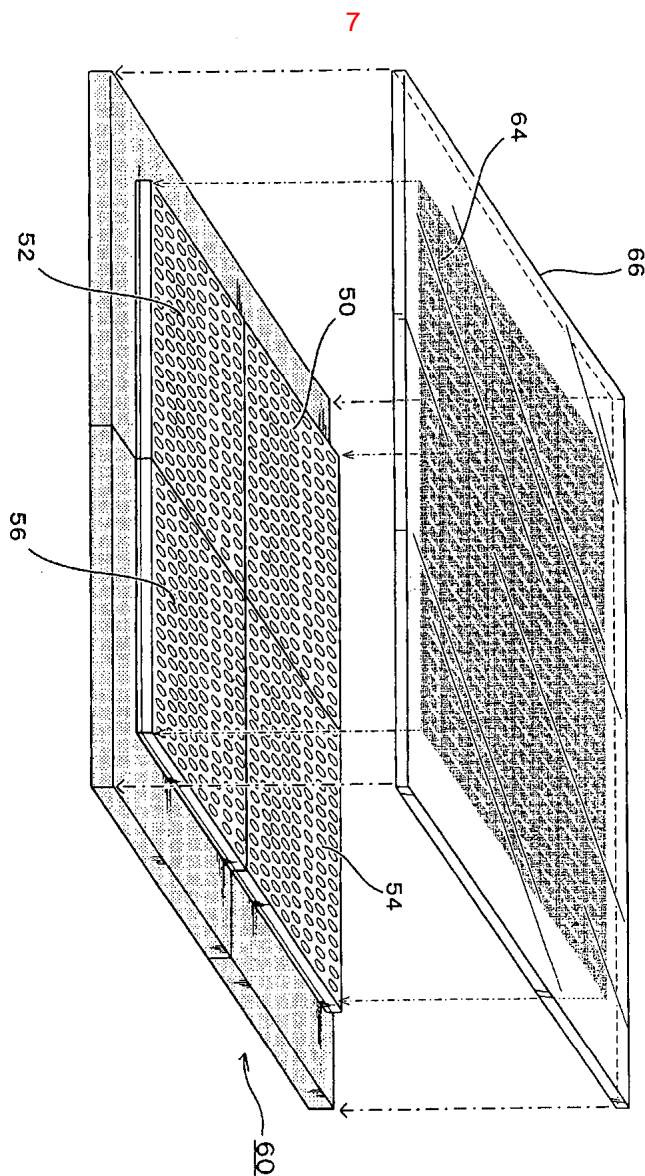


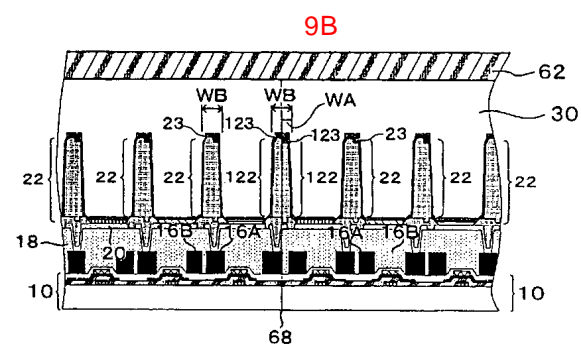
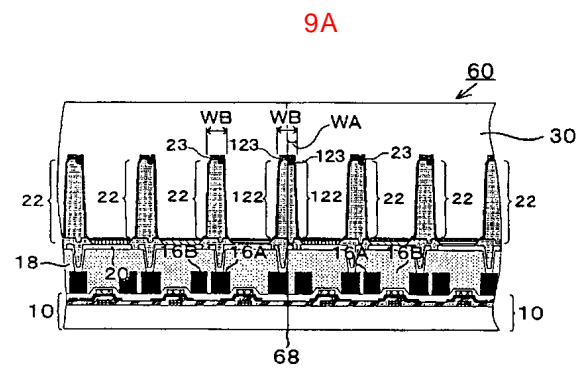
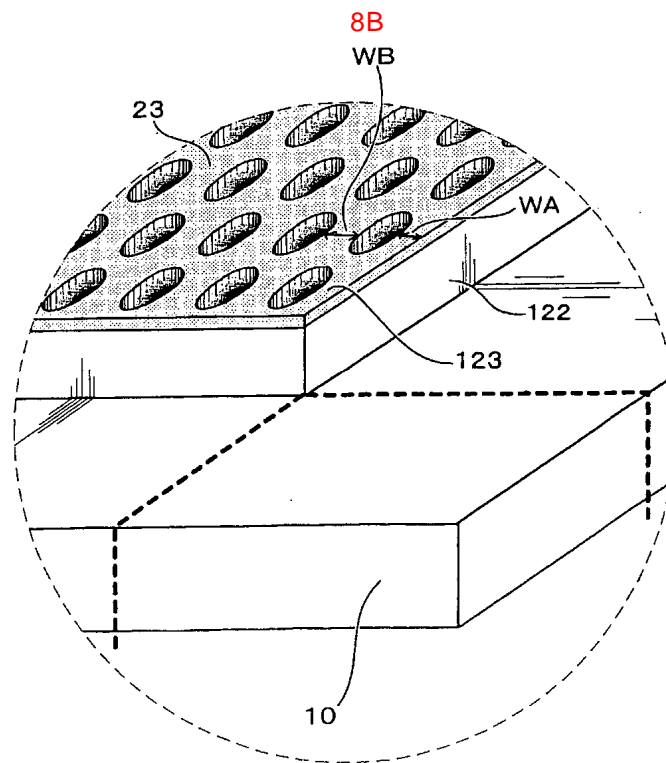
6B

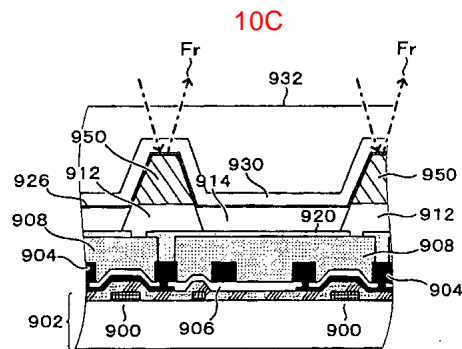
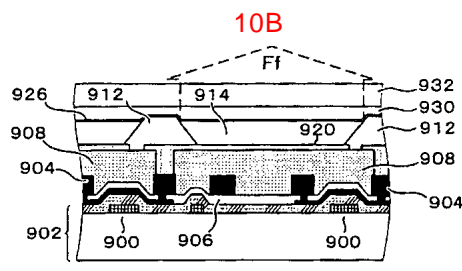
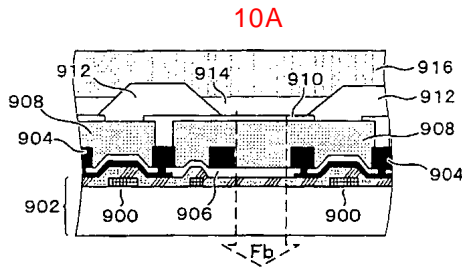
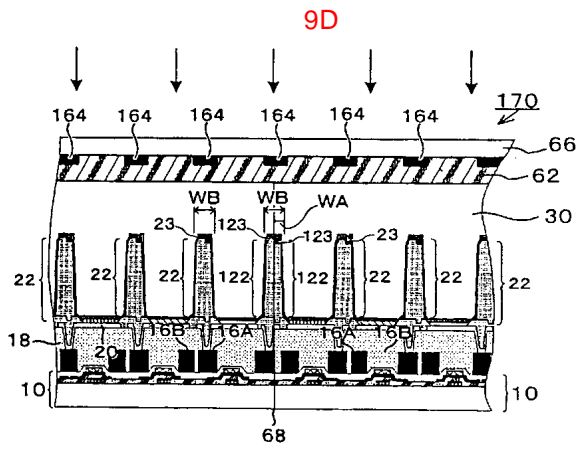
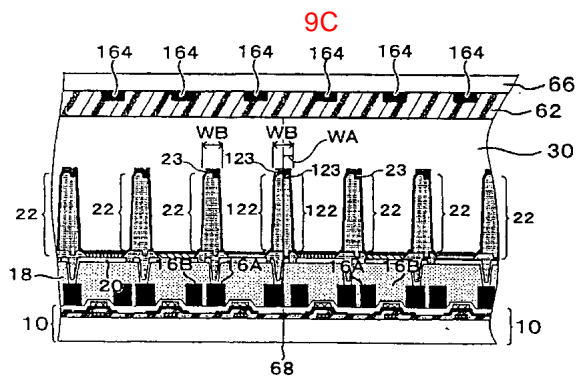


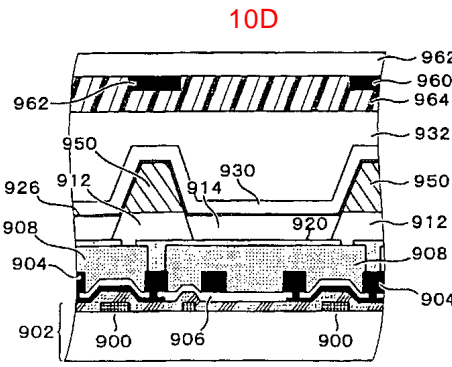
6C











专利名称(译)	轮胎环显示装置及其制造方法		
公开(公告)号	KR1020030051617A	公开(公告)日	2003-06-25
申请号	KR1020037002041	申请日	2002-06-07
[标]申请(专利权)人(译)	索尼公司		
申请(专利权)人(译)	索尼公司		
当前申请(专利权)人(译)	索尼公司		
[标]发明人	CHIBA YASUHIRO 찌바야스히로 URABE TETSUO 우라베데쓰오		
发明人	찌바,야스히로 우라베,데쓰오		
IPC分类号	H01L51/50 H01L27/32 H05B33/10 H05B33/26 H01L51/56 G09F9/30 G09F9/00 H01L51/52 H05B33/22 G09F9/40		
CPC分类号	H01L51/56 H01L51/5203 H01L2251/5315 H01L27/3293 H01L51/5281 H01L27/3295 H01L51/5237 H01L51/5246 H01L51/5253		
代理人(译)	CHU，晟敏		
优先权	2001179148 2001-06-13 JP		
外部链接	Espacenet		

摘要(译)

一种系带型显示装置及其制造方法，使用有机EL显示面板，其中通过黑色矩阵改善对比度。UV可固化树脂62涂覆在拼接型显示板60的主表面上，并且密封基板66粘合到树脂涂覆表面上。此时，应注意不要在UV固化树脂62和密封基板66之间混合气泡等。接下来，调整拼接型显示面板60和粘合密封基板66之间的相对位置关系。进行该位置调整使得黑矩阵64恰好位于肋22的辅助配线23的上方，并且刚好位于显示面板50至56之间的边界线68的上方。之后，照射UV光以固化UV可固化树脂62，并且将拼接型显示面板60和密封基板66的相对位置固定以获得拼接型显示装置70。图6C 指数方面 领带环，发光层，空穴传输层，显示板，有机EL，黑色矩阵

