

(19)
(12)(KR)
(A)(51) . Int. Cl.⁷
G02F 1/13(11)
(43)2003-0067998
2003 08 19(21) 10-2002-0007774
(22) 2002 02 09(71) .
20

(72) 2 109-30

(74)

:

(54)

1, 2

가

1, 2

1, 2

1, 2

,

4

1

2 1 ,

1

2

3a 3j

4

5a 5g 4

6

7a 7g 5
8 7a 7g 1 4

9a 9b 1, 2

10a 10f

*** ***

100: 110,130: 1, 2

120: 1 140:

(matrix)

(integrated circuit : IC) 가

(color filter)

1 , 1
가

, 가 , , ,
가 , , , ,
가 , , , ,
가

1, 2 , 1, 2

, , 1,

2 1, 2 1, 2 1 ;
 1, 2 90° 1 ; 1, 2 1
 , 3, 4 ; 3, 4 3, 4 1,
 2 2 , 3, 4 1, 2

,

1 1, 2 1 ; 1 , 1, 2
 가 1, 2 2 ; 2 1, 2 1
 1, 2 2 ; 2 2 1, 2 2 가
 1, 2

,

1, 2 1, 2 1 1 , 1, 2 1
 1, 2 90° , 1, 2 1, 2 1 ;
 1, 2 ; 3, 4 1, 2 2 , 3, 4
 ; 3, 4 . 1, 2 2

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4 1, 2 (100) 1, 2 1 1
 1 1 ; 1 (110) 1, 2 90° 1
 1, 2 (120) 1, 2 2 2 1, 2 2 가
 2 ; 1, 2 2 ; 2 1, 2 2
 (130) ; 1, 2 (110,130) .
 (140) .

, 5a 5g 4 ,
 .

, 5a 1, 2 (100)
 (103,104) 1 (105) (align mark, 106)

.

1, 2 (103,104) 2 (104) 1, 2 (103,104)
 1 (103) ; 가

, 5b 2 (111) 1 (110) 1, 2 (103,104) 1 (105)
 1 (112) 1 (113) 1, 2 (103,104) 1
 (114,115) .

1 (103) . 1 2 (104)

1 (112) (R1) 1 (103) 1 (114)
 , 1 (113) 1 (R1) 1 (115) . 1 (103) 1 (114)
 (104) . (112) 1 (103) 1 (114) 2
 , 1 (112) 1 (114), 1 (113)
 1, 2 (103,104) 1 (114,115)

1 (116) 5c 1 (110) 1 (114,115)
 가 1, 2 (103,104) 1 (114,115)

, 1 (116) 1 (112) 1 (103) 1 (114)
 , 1 (112) 1 (114) 1 (114) 1 (114)
 , 1 (116) 2 (104) 1 1 (115)

가 1 (116) 1 (103)
 , , (particle)

, 5d (120) 1, 2 (103,104) 90°
 , 5e 2 (130) 1, 2 (103,104)
 3, 4 (131,132) 2 (133) 2 (134) 1, 2 (103,104) 2 (131,132)
 (135,136)

) 5b 2 (133) 2 (134) 1 (112) 1 (113)
 (R1) 2 (135,136) 2 (133) 2 (134) 1, 2 (103,104) 2
 2 (133) 2 (134) 1, 2 (103,104) 2

, 5f 2 (130) 2 (135,136) 2
 (137) 가 1, 2 (103,104) (135,136) 2

2 5c 2 (135) 2 (137) 1 (116) 2 (133) 2 (133) 1 (103) 2 (135) 2 (135)
 (135,136) 2 (135,136) , 2 (133) 2 (133) 2 (135) 2 (135) 2 (135)
 가 , , , , , , , ,

, 5g (140) 1, 2 (114,115,135,136)

(140) 2 (150) (100) 90° 90° , 5g
 , , , ,

, 5g (140) 1 (160)
 2 1, 2 1, 2 1, 2 1, 2 1, 2
 가 1, 2 1, 2 1, 2 1, 2 1, 2
 , 1, 2 1, 2 1, 2 1, 2 1, 2
 2 1, 2 .
 6 1, 2
 1, 2 2 1 (200) ; 1, 2 1, 2 1, 2
 1 1, 2 (210) ; 1, 2 1, 2 90 ° 1, 2 (220)
 ; 1, 2 3, 4 2 1, 2 (230) ; 3, 4 1, 2 (240)
 10,230) 1, 2
 .
 , 7a 7g 6 ,
 , 7a (200)
 1, 2 (203,204) 1 (205) (206)
 .
 1, 2 (203,204) 2 (204)
 1 (203) 1, 2 (203,204) 1, 2 (205)
 211) 2 (211) 1 (213) 1 (214) 1, 2 (212) 1, 2 (203,204) 1, 2 (205,
 (215,216) 1 (203)
 . 1 2 (204)
 .
 1 , (213) 1 (R1) 1 (213) 1 (203) 1 (215) 2
 , 1 (204) 1 (214) 1 (R1) 1 (213) 1 (203) 1 (215) 2
 ,) 1 (213) 1 (215,216) 1 (214)
 1, 2 (203,204) 1 (210) 1, 2 (203,204) (212)
 , 7c 1 (210) 1, 2 (203,204) (212)

1, 2 (205,211) . 1 (215,216) 1, 2
 (203,204) .
 , (212) 1, 2 (203,204) 1, 2 (205,211) 1, 2 (205,211)
 , 1, 2 (203,204) 1, 2 (205,211) 1, 2 (205,211) 1, 2 (203,204)
) .
 , (312) (212) 8 , 1, 2 (203,204) (305,311)
 (212) , 1, 2 (203,204) (dot),
 .
 , 7d 1 (220) 1, 2 (203,204) 90 ° .
 , 7e 2 (230) 1, 2 (203,204)
 3, 4 (231,232) 2 (234) 2 (235) (233) 1, 2 (203,204) 3, 4 (231,23
 2) (236,237) 2 .
 7b 2 (234) 2 (235) 1 (213) 1 (214)
) (R1) 1, 2 (203,204) 2
 (236,237) 2 (234) 2 (235) 1, 2 (203,204) 2
 , 7f 2 (230) 1, 2 (203,204) (233) 1, 2 (236,237) (233)
 3, 4 (231,232) 2 (233) 1, 2 (205,211)
 (203,204) , 8 (312)
 .
 , 7g (240) 1, 2 (215,216,236,237)
 .
 , (240) 2 (250) (200) 90 ° , 7g
 .
 , 7g (240) 1 (260)
 .
 2 1, 2 , 1, 2 1, 2 1, 2 1, 2 1,
 3, 4 .
 .
 , 1, 2 , 1, 2 1, 2 1, 2 1,
 2 1 ; 1, 2 .
 .
 , 1 9a 1 1, 2 (305) 1 (301,302)
 3,304) 1 (306) 1 (306) 1 1, 2 (307) 1 (30

, 1, 2 (301,302) 1 (307) 1, 2 (303,304) 가 , 1,
 2 (301,302) (309) 9b 1, 2 (301,302) 1, 2 (303,304) (308)
 1 (305) 1 (306) 1 (307) 1, 2 (303,304) 가 , 1,
 2 (301,302) 1, 2 (301,302) (309) 2 (309) 1
 , 가 1, 2 (301,302) , 1 2 (301,302) 2 (309) (r
 309)
 , 1, 2 (301,302) 가 1, 2 (303,304) 1, 2 (301,302) 1, 2 (303,304)
 (309) 1, 2 (301,302) 1, 2 (303,304) 가
 10a 10f
 ,
 , 10a (404) 1, 2 (402,403) (405) 1, 2 (404) (402,403) 1
 (406) 10b 1 (407) 1 1 (404) 1, 2 (402,403) 1
 (406) 10c obot grip, 409 1 (401) 1 (408) 1, 2 (405) (402,403) (r
 1 (409) 1 (406) 1, 2 (407) 1 (402,403) 1 (408) 1 (408) (405)
 1 (409) 1 (408) 1, 2 (407) 1 (402,403) 1 (408) 1 (408) 가
 , (409) 1 (402) 1, 2 (409) 1, 2 (402,403) (402,403) 2 (sub motor)
 (405) , , 1 (409) 1, 2 (402,403) 1, 2 (402,403) (405)
 (409) 가
 , 10d 2 (410) (405) 1, 2 (402,403) 1 (404)
 , 10e 1, 2 (402,403) 1, 2 (404,410) 2 (411) 1 (406) 1
 , 10f 1, 2 (404,410) 2

(411) 1, 2 (402,403)

1, 2 (404,410) 1, 2 (402,403)
 1 (406) 1 (407) 2 (411) 2 (411) (411)
 2 (411) 2 (411) (411)

, 가 , , 1, 2
가 , , , 가

$$2 \quad , \quad 3, \quad 4 \quad , \quad 1, \quad 2 \quad , \quad 1, \quad 2 \quad , \quad 1, \quad 2 \quad , \quad 1, \quad 2$$

, 1, 2

가

1, 2

, 1, 2
1 2 가 가

(57)

1.

$$\begin{matrix} & 1 \\ , & & ; \\ 1 & & ; \\ & 3, & 4 \\ \uparrow & & 1, & 2 \end{matrix}$$

$$\begin{matrix} & 1, & 2 \\ 1, & 2 & \end{matrix} \quad 90^\circ \quad \begin{matrix} , & 2 \end{matrix}$$

1, 2
가 1, 2
1 ; 1, 2

$$2. \quad 1, \quad , \quad 1, \quad 2$$

2

3. 1 , 1 1 1 1 가 1

4.

5.

6.

$$\begin{array}{ccccccccc}
& & 1, & 2 & & 1, & 2 & & \\
2 & & 1, & 2 & & 1 & & , & 1, & 2 & & 1, \\
& 1, & 2 & & & & 1 & ; & 1, & 2 & 90^\circ & \\
1 & ; & & 1, & 2 & & 3, & 4 & , & 3, & 4 & 3, \\
4 & & 1, & 2 & & 2 & & , & 3, & 4 & & \\
& 1, & 2 & & & 2 & & & & &
\end{array}$$

7

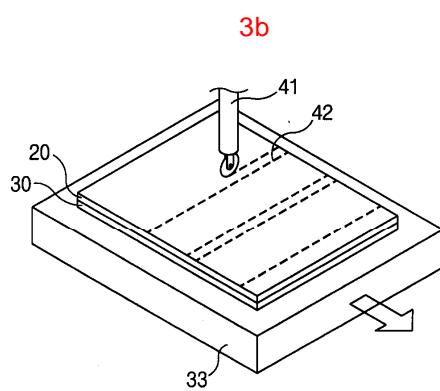
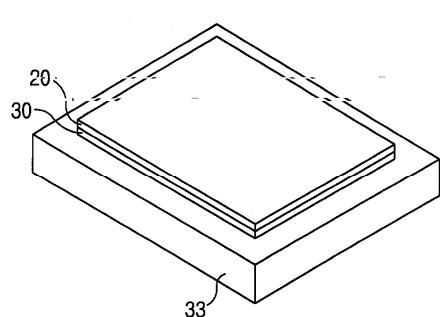
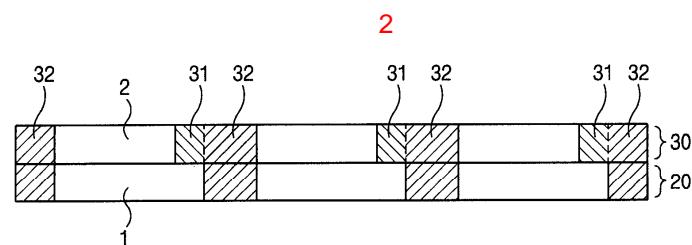
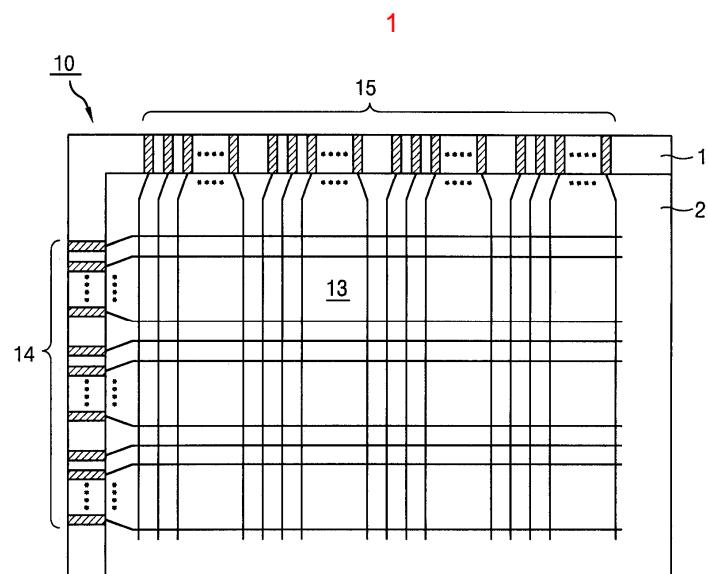
6 , 1 4 (dot)

8.

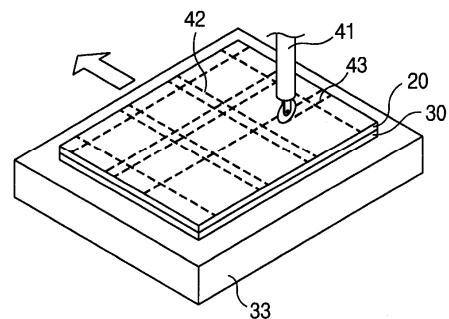
9.

10.

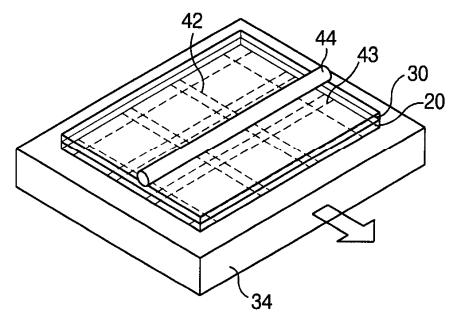
9 , 1 2 2 1 가 1 1, 2 2



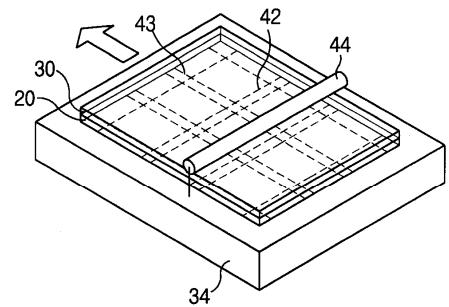
3c



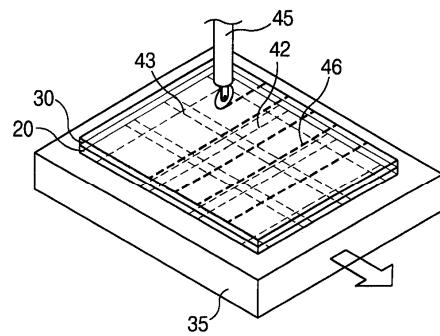
3d



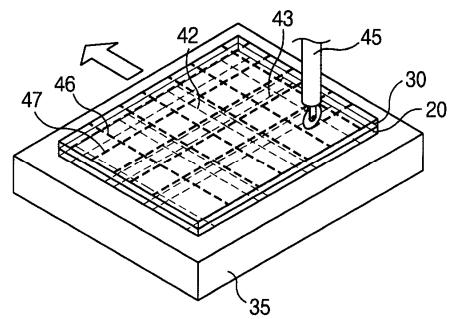
3e



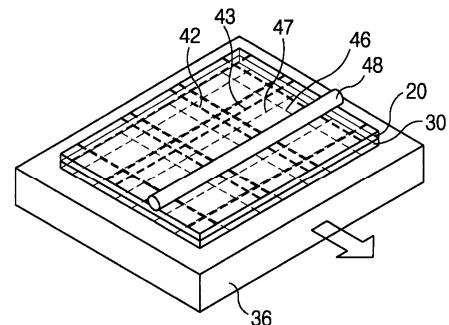
3f



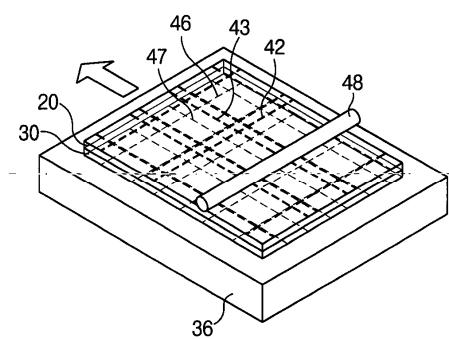
3g



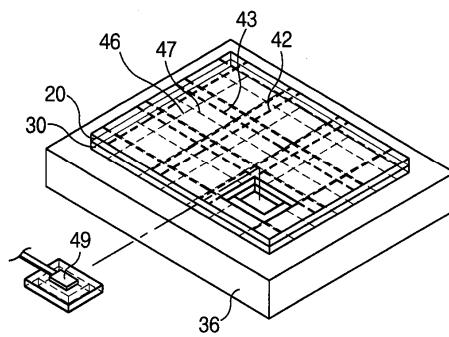
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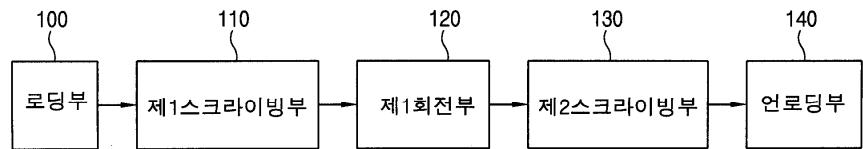
3i



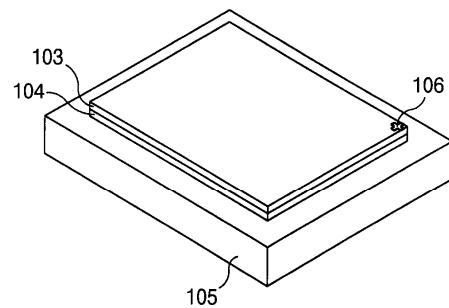
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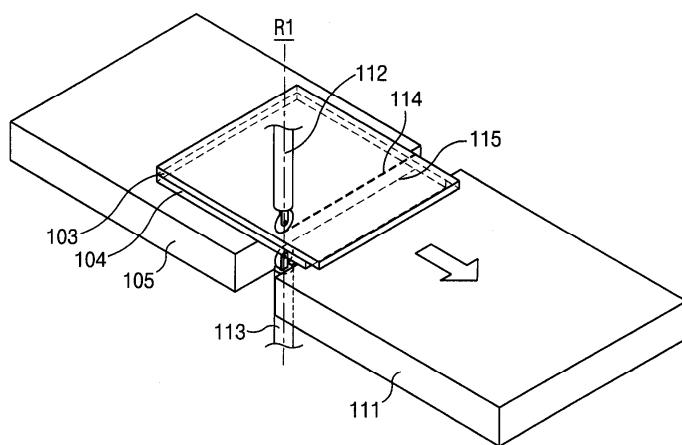
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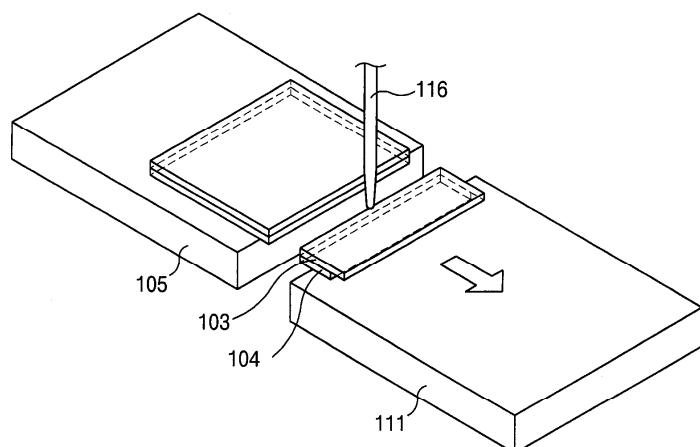
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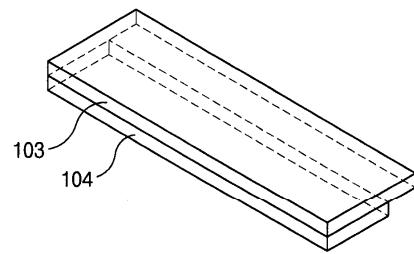
5b



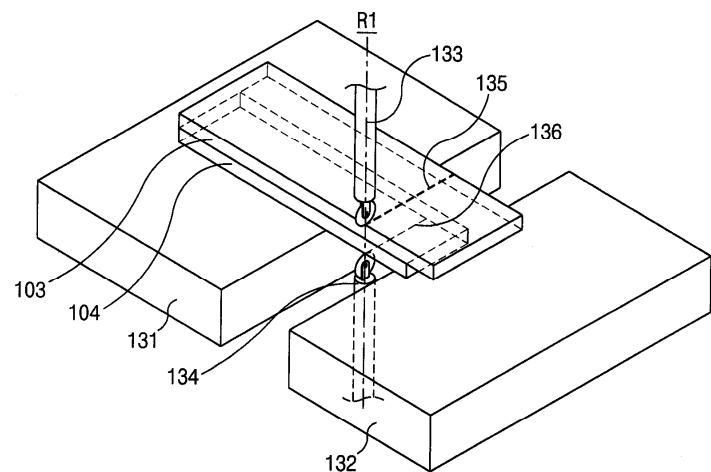
5c



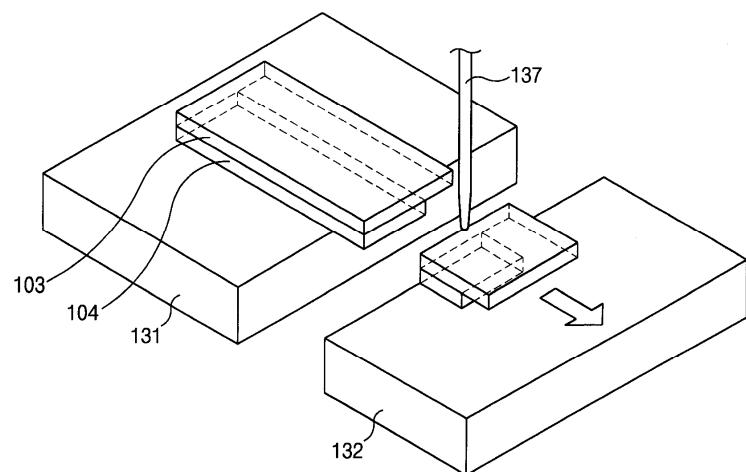
5d



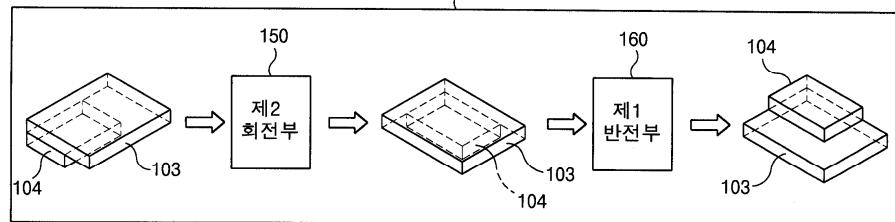
5e

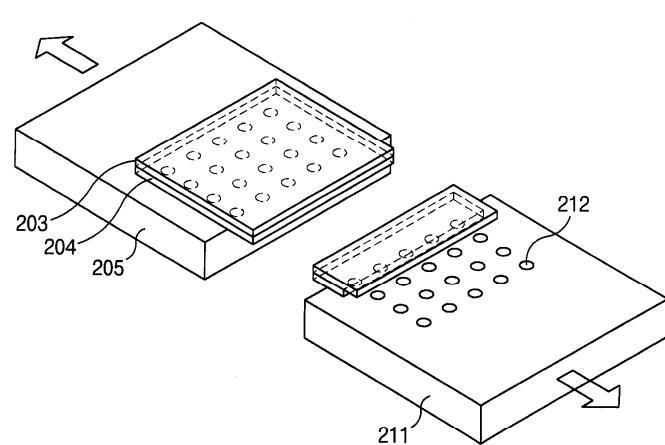
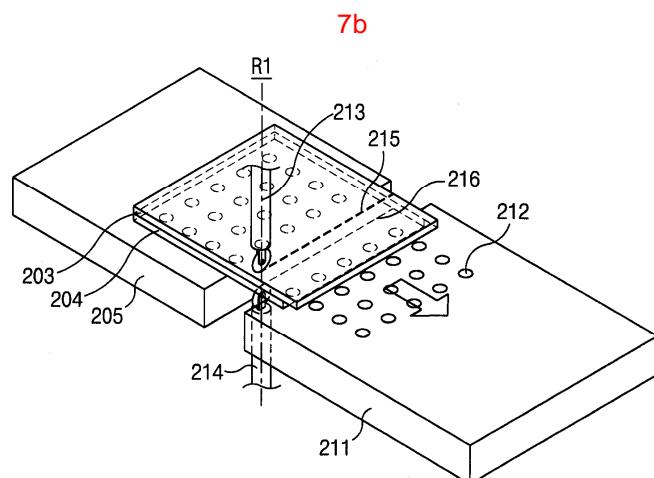
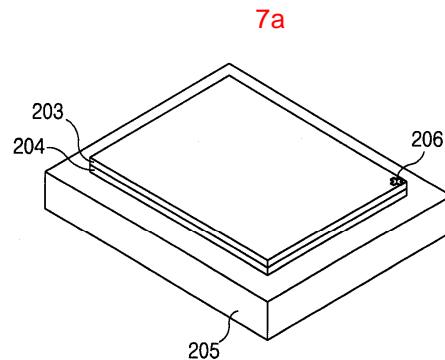
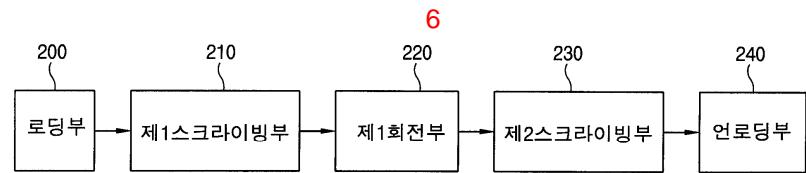


5f

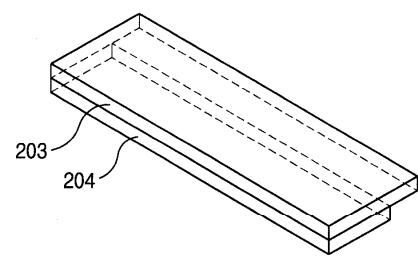


5g

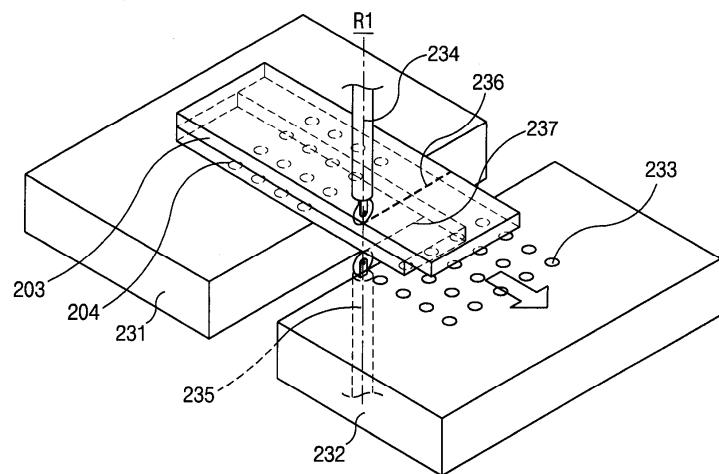




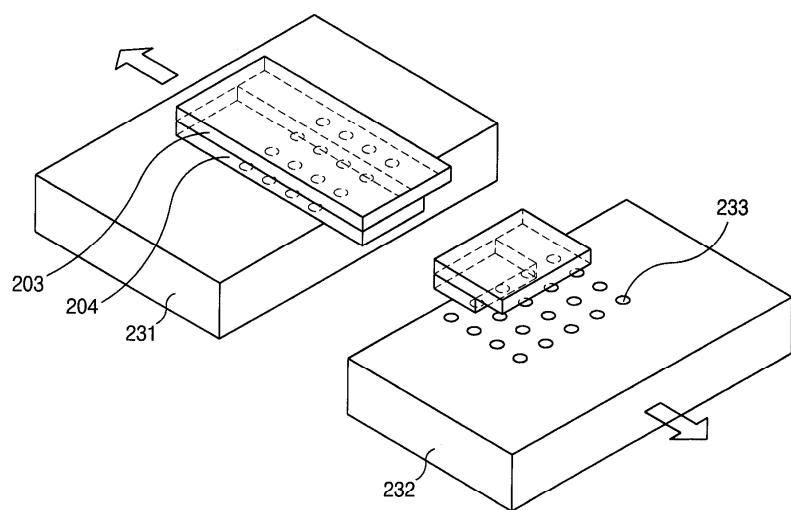
7d



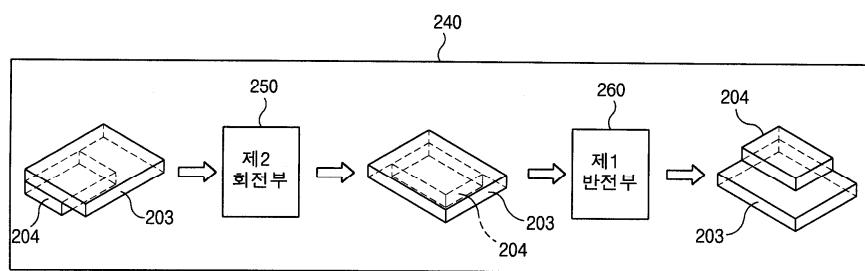
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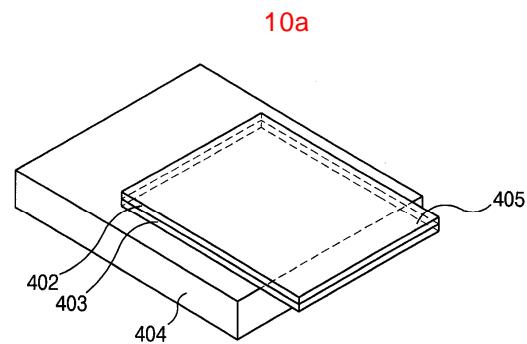
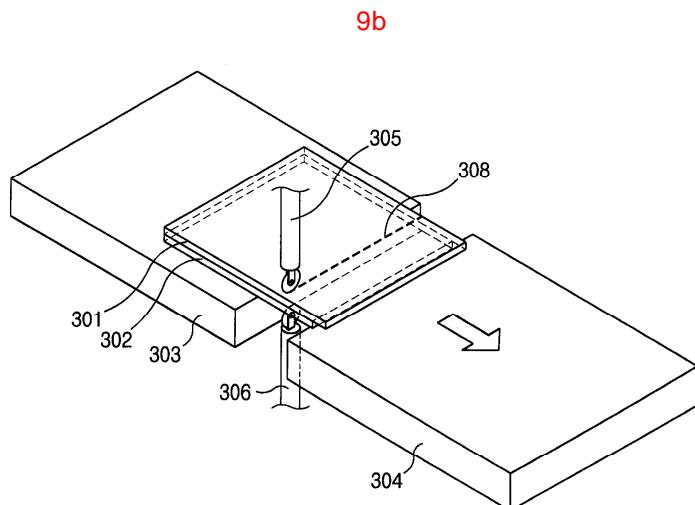
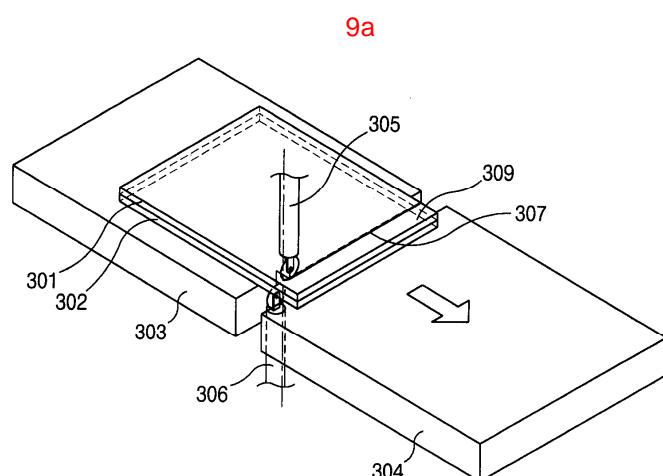
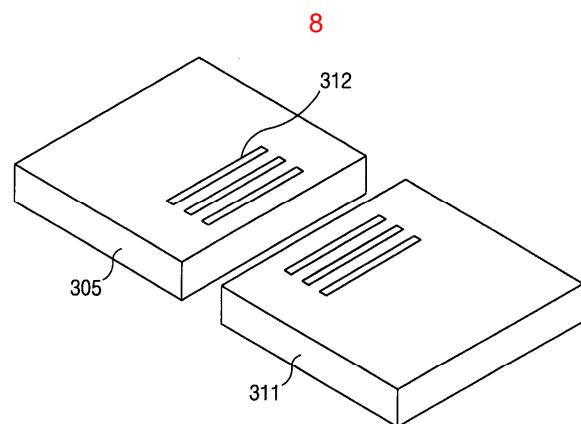


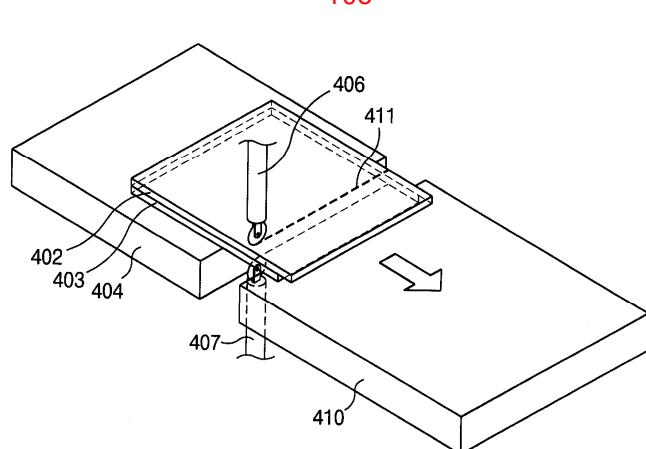
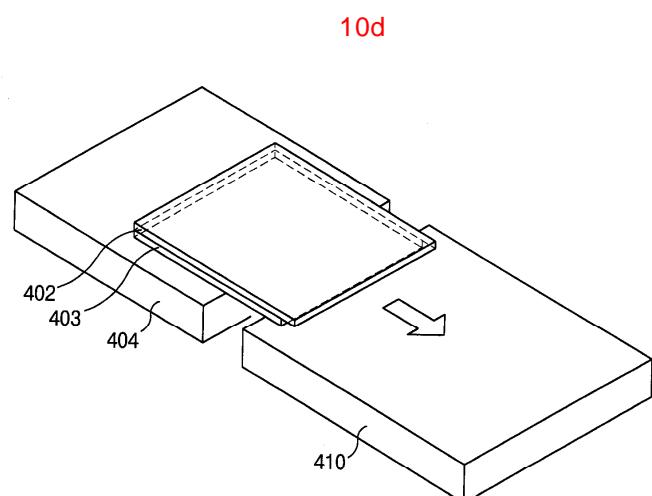
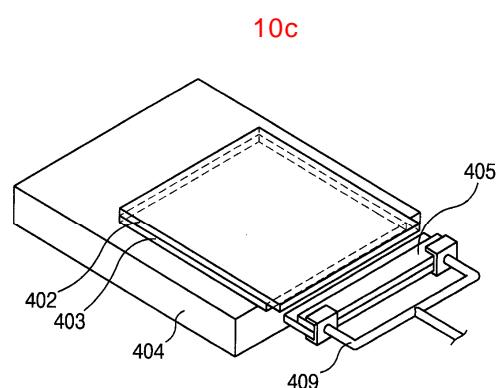
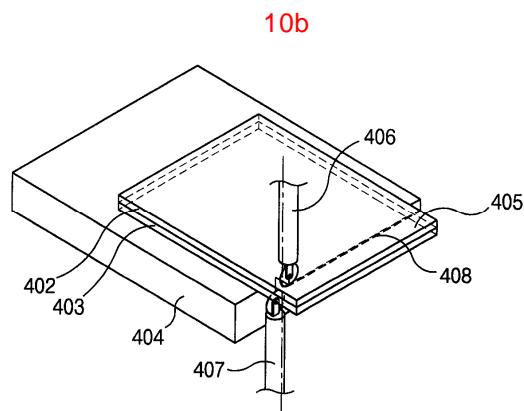
7f



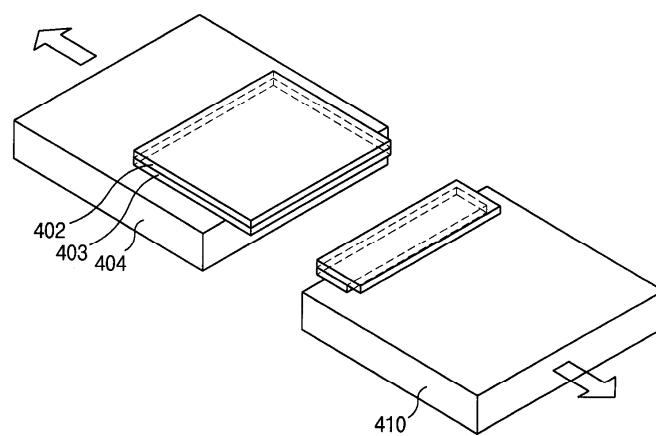
7g







10f



专利名称(译)	切割液晶面板的装置和方法		
公开(公告)号	KR1020030067998A	公开(公告)日	2003-08-19
申请号	KR1020020007774	申请日	2002-02-09
[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	SHIN SANGSUN 신상선		
发明人	신상선		
IPC分类号	G02F1/13 G02F1/1333 C03B33/07		
CPC分类号	C03B33/07 G02F1/133351 Y02P40/57 Y10T83/0378 Y10T225/325		
代理人(译)	PARK , JANG WON		
其他公开文献	KR100789454B1		
外部链接	Espacenet		

摘要(译)

本发明的目的在于提供一种单位液晶面板的锯切机，该锯切机在通过上轮和下层对所安装的第一和第二母板的表面进行上下同时划线后，通过切割预期线上的辊通过压力。轮子和形成切割预期线或它移动到成为第一和第二主板被吸收的桌子的方向并且切割第一和第二主板并且以这种方式它可以最小化划线所需的时间并且不需要分离第一和第二母板倒置或断开，并且它减少了倒置和断开所需的时间，并且可以优化设备的安装费用和安装空间及其方法。

