

(19)
(12)

(KR)
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G02F 1/13

(11)
(43)

2002 - 0009762
2002 02 02

(21) 10 - 2000 - 0043184
(22) 2000 07 26

(71) .
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20

(72) 401
103 1108

55 - 1055/5

642 - 3 LGPhilipsLCD

642 - 3 LGPhilipsLCD

104 601

642 - 3 LGPhilipsLCD

(74)
:

(54)
,
,
가 TCP , TCP
,
1 ,

1

2

3

,

1

2

3

4a 4f

5

6a 6f

41 : 43 : 1

45 : 47 :

48 : 49 : 2

51 : 53 : TCP

(CRT: Cathode Ray Tube)

, CRT

가

CRT

(Liquide Crystal Dispaly: LCD)가

가

가

(TFT - LCD)
 VGA (Video Graphic Array; 640 × 480)
 SVGA (800 × 600), XGA (1024 × 768)
 TFT - LCD 가, 가 가 , 가 가
 , PDP (Plasma Display Panel), FED (Field Emission Display) , LCD (Back Light)
 1
 m) (, " ") () (Grinding) () ACF (Anisotropic Conductive Film) ()
 () () , ()
 (11) (13) , (13)
 (13) (15) (17) , (13)
 (19) , (19) () (21) ,
 (21) TCP (23)
 (19) (Active) , ITO (Indium Tin Oxide)
 , TCP (23) (21) (19) (13)
 ()
 (19) () , (21) 가 ,
 (19) (21)
 (F1)가 , TCP (13) 가
 가 ()
 (19) , (21) () (13),
 (15), (17) (19) , (grinding) , (13)
 (19) (F2)가
 1 " 32" (11) , " 30" (11)
 (32)
 , 2
 (Pitch)가 가
 () , () ()

, () ,

, (11) (15) / (16) , / (16)
() / (16) (16) (17) ,
() (19) () (19) , (21) ,
(21) TCP (23) .

6) , TCP (23) (21), (19) / (1

(21) 가 (19) () ,
(21) 가 , () (F3) ,

g) , () / (16), (17) (19) , (grindin
(F4)가 (19)

가 가
가

(damage) 가 , (electrical shock) 가

가 가
가

가

가 , /

CP

가 TCP , T

1
 , 1 2 1
 ,
 , 가 TCP , TCP
 , 1 , 1
 , 1 2

1 , 1 1 1
 , 1 2 , 2
 , TCP
 , 1 ,
 1 1 1
 , 2 ,
 , TCP 2
 .

/ / 가 TCP , ,

(ACF: Anisotropic Conductive Film)

가

()

, 3 () , () , ()
 (Pad) (Active) (41) , ()
 (41) 1 (43) , 1 (43) (41)
 () 1 (43) (45) (47) ,
 2 1 (43) () 2 (49) ,
 (51) TCP (53) () (51) ,

1 " 62" (43) , " 60" 2 (51)
 , ITO(Indium tin Oxide)

1 (43) (51)
 2 (49) (49) (51)
 가 () (grinding)
 (45) (47) , 2 (49) (51) 1 (43)

() 2 (49) 1 (43) ,
 (51) 가 , 2 (49)

4a 4f

4a () , ()
 1 (43) (41) 1 (43) ()

1 (43) (41) (45) (45)
 (47) (47) () 4b , ()
 (48) , 가

4c () 2 (49) , 1 (43) ()
 2 (49) IT
 O ITO , 2 (49) ITO 가

4d () (45), (47) (Grinding)
 4e () () ()
 (51) , 1 (43) (45)
 (47) , 2 (49) (51)

4f (51) TCP (53)

(43) 2 (49) (51) () 1 (43) (45)
 8) 2 (49) . () 1 (4)
 가 . (51)

5 .
 5 가 () ,
 () () , () ()
 , () () ()
 , 1 (43) 2 (49) .

5 (Pad) (Active) () , () , ()
 () (41) , (41) (45) , 1 (43) , 1 (45) , (43)
 (45) , () 1 (43)
 (47) , 1 (43) ()
 2 (49) , 2 (49) TCP (53)
 (51) , (51)

1 " 62" (43) / , " 60" /
 , 2 (49) , .

1 (43) 1 (43) (43) , (51)
 2 (49) 2 (49) 가 . (51)
 (47) , 2 (49) 가 () 1 (grinding) (43)

() 1 (43) 2 (49)
 (51) 가 , 2 (49)
 가 .

6a 6f .

6a (Pad) (Active) () , ()
 45) / 1 (43) (41) (45) , ()
 , 1 (43) () 가 ()
 , , 가 .

1 (43) (41) (47) (47) ()
6b () () (48)

6c () 2 (49) (48) 1 (43) (48)
9) 2 (49) () ITO ITO 2 (4
가

6d () () (47) (Grinding) 6e (5
1) ()

6f (51) TCP (53)

1 (43) 2 (49) ()
1 (43) (47) () 1 (43)
() 2 (49) (48) 2 (49) 가
() 2 (49) (48)

가

ACF

가

가

가

(57)

1.

가 TCP ;

TCP ;

;

1 ;

1

2

2.

1 , 1

3.

1 ,

4.

1 , 2

5.

가 TCP ;

TCP

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1 ;

1 ;

1

2

6.

5 , 1 /

7.

, , ;

1 ;

1 ;

1 ;

1 2 ;

2 ;

TCP

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8.

7 , 2

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9.

7 , 1

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10.

7 , 2

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11.

7 ,

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12.

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1 ;

1 ;

1 ;

1 2 ;

2 ;

TCP

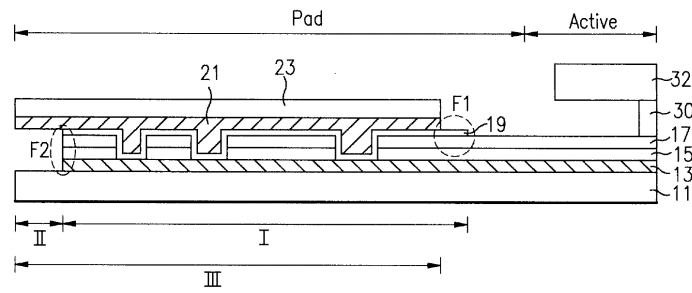
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13.

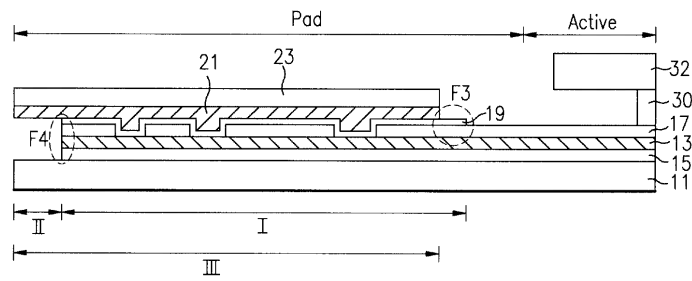
12 , 1 /

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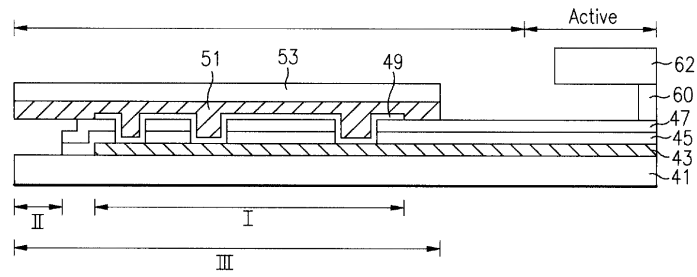
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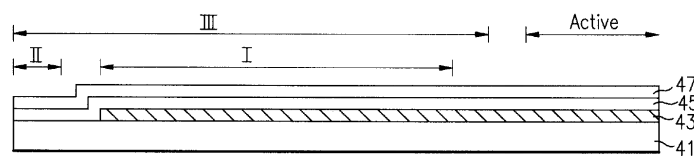
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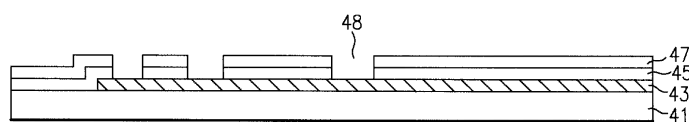
3



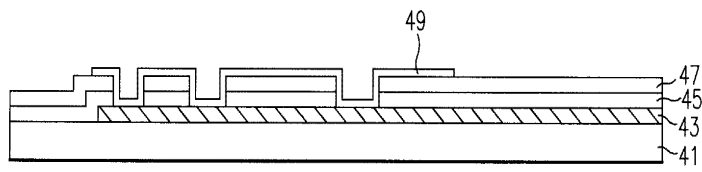
4a



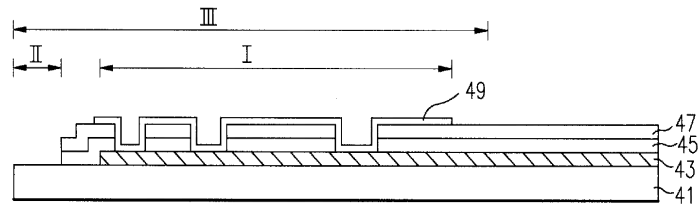
4b



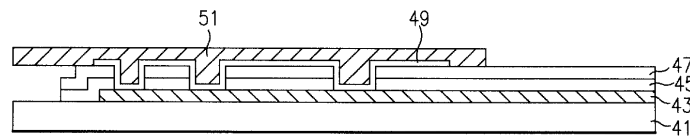
4c



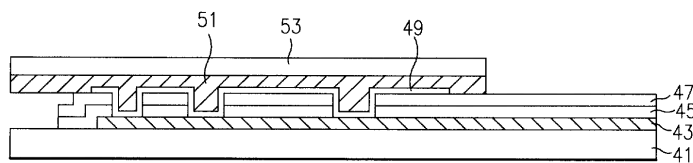
4d



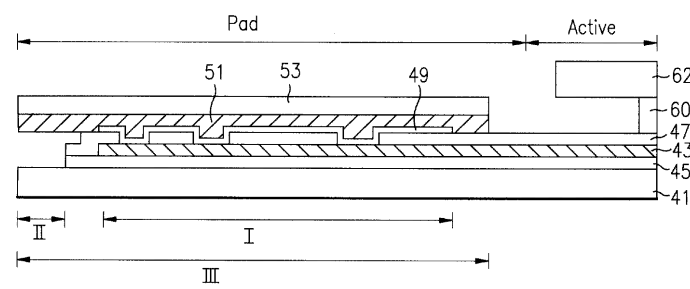
4e



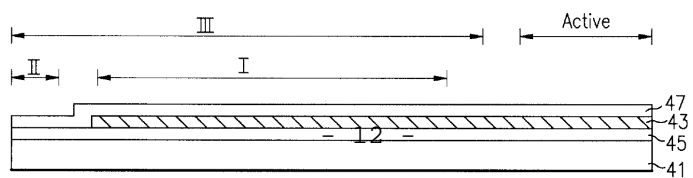
4f



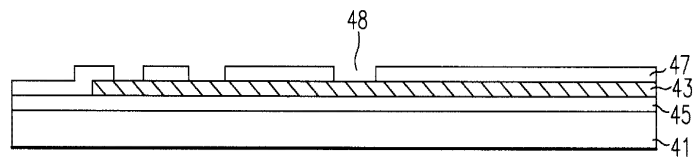
5



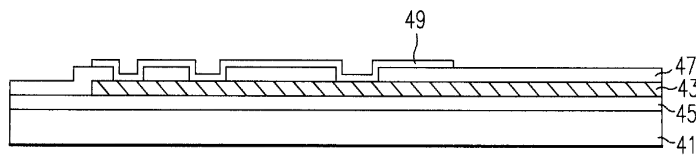
6a



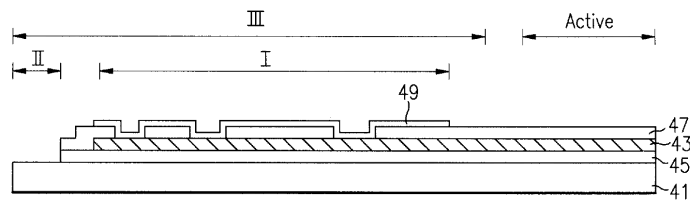
6b



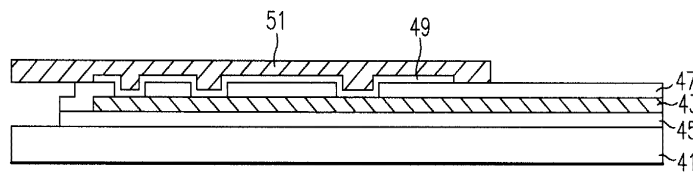
6c



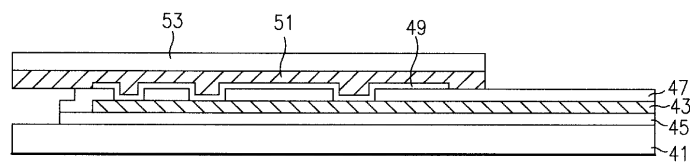
6d



6e



6f



专利名称(译)	液晶显示装置的垫及其制造方法		
公开(公告)号	KR1020020009762A	公开(公告)日	2002-02-02
申请号	KR1020000043184	申请日	2000-07-26
[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		
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IPC分类号	G02F1/13 G02F1/1362 G02F1/1345		
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代理人(译)	金勇 新昌		
其他公开文献	KR100672622B1		
外部链接	Espacenet		

摘要(译)

用途：提供液晶显示装置的垫和制造焊盘的方法，以制造没有腐蚀的栅极焊盘和数据焊盘，从而改善器件的特性。

