

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.7
G02F 1/1368

(11)
(43)

2003-0082374
2003 10 22

(21) 10-2003-0018365
(22) 2003 03 25

(30) JP-P-2002-00112737 2002 04 15 (JP)

(71) 997

(72) 가 997

997

(74)

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(54)

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() 가 가 , (6) (5) 가 (3)
(5) 가 (4) , (4) (4a, 4b)

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가 , 8-254712 ,
(: M.Oh-e, , Asia Display'95, pp.577-580). 13(a)
, 100 TFT , 200 (CF) , 13(b)
, 1

가

가

가

가

가

가

가,

가

가

[]

1

CF

TFT

1(a)

1(b)

TFT

가

가

가

2

1

2

, 5

1

(6)

6

(3)

(Cr) ITO (Indium Tin Oxide) .7 (Cr) 가

(3) (4) (5) (3) (5) (5)

2 A-A' 3 3 , SiN ((

2) (3) (3) 1 (4a) (3) 1 (4a) , 400nm 500nm (

0nm , 1 (4a) 2 (4b) . 2 (4b) , 200nm 300nm .

SiN SiO₂ (3) (4b) (5) 2 (4a, 4b) (5) , 100nm 30 (

a) (3) (5) 2 , 1 (4

(4b) 가 2 (4b)

1 (4a) 가 2 (4b)

(3) (5)

b) 4 (4) 4(a)

가 , 4(b) 1 (4a) (41a, 42a) , 4(a)

2 (4b) (41b, 42b) (3) (5) , 4(a)

(41, 42) 1 (4a) (41a, 42a) 2 (4b) , 4(

(41b, 42b) 1 (3) 4(a) (5) (3) , 4(b)

(3) (5) 2 (3) (5)

, 3 , 5

1 5

5(a) , Cr, Al, Ti, Ta, Mo, W, Ni, Cu, Au, Ag

ITO , (1), (1), 5(b)

가 (93), n TFT , P , Si, poly-Si

poly-Si (93) 가 CVD, CVD, n+ Si, n+

5(c) Cr, Al, Ti, Ta, Mo, W, Ni, Cu, Au, Ag

ITO 가 (3), , , ,

5(d) (4) , 3 2 1

(4a) 2 (4b) , ,

5(e) , Cr, Al, Ti, Ta, Mo, W, Ni, Cu, Au, Ag (5)

ITO , , ,

TFT , TFT ,

2

6 (6), 2 (3), 1 (5), 6 (7), 1 (3), (5),
 (3), (3), (3), (5), 가
 (3), (3), (3), (5), (5), (3), (5), (5),
 (3), (3), (3), (5), (5), 1
 (3), (5), (3), (5)

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7 (93), (6), 3 TFT (8), (91), (91), TFT (92), (911) (amorphous) (6), (62) 2
 (91) 2 (5), (61,62) (61) (62) 2
 2

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8 (5), (6), C 2 (1, 2) 8 (6) 가 (6) 가
 (6) ,가
 가 (視認) 가 가 가

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9 (93), () 5 (8), TFT (91), (3), (92), (93) 가 (5) B
 E 가 10(a) E (3) E-E' E 가 (3) 가 가
 E 가, (3) (93) 가 10(b) 가 (93) 10(b)
 가 (3) (93) 가 10(a) (93) 10(a) 10(b)

가 , 가 , E 가, (3) (3) (93) 가
 , E 가, (3) (3) (93) 가 , 11(a) (93)
 11(b) 가 11(a) (3) (5)
 , 11(b) 가 (3) (5) (93)
 , 가 (3) (5)

6
 12 (7) 6 (7) (72)
 (5)

12 F (7)
 (3) (3) ()
 3) (7)

(57)

1.

2.

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가

가

가

가,

13.

가

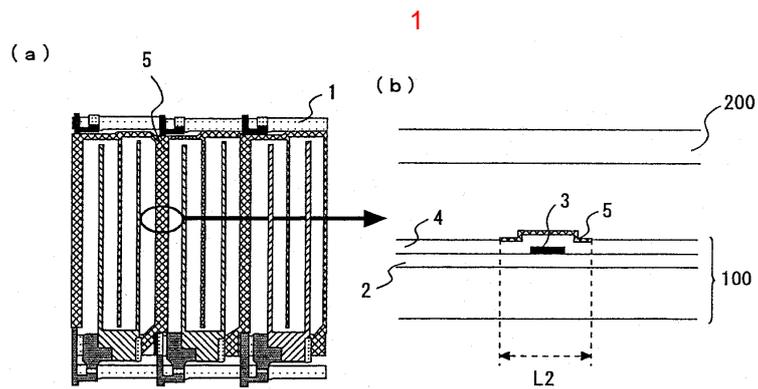
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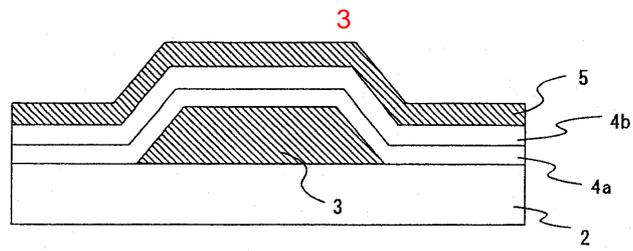
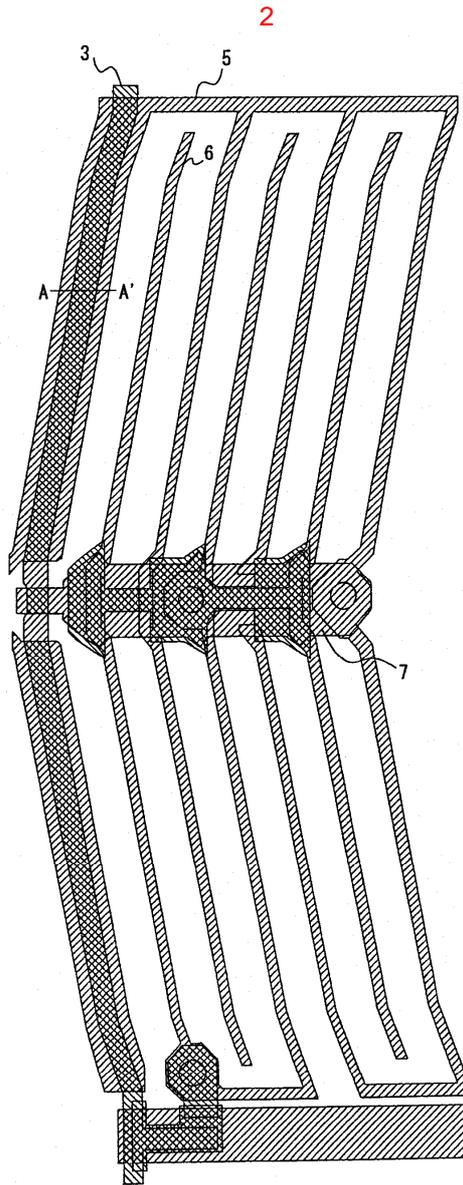
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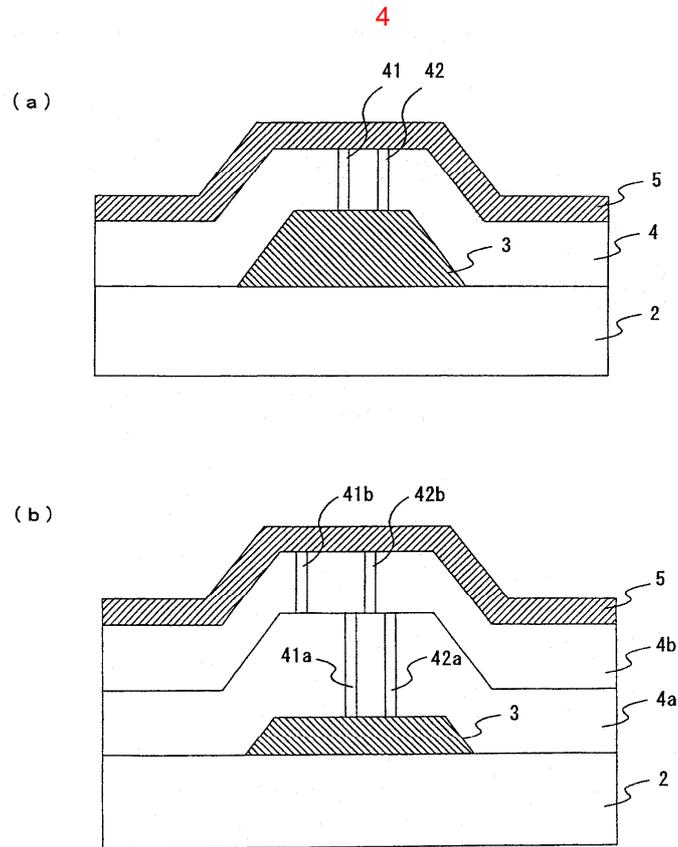
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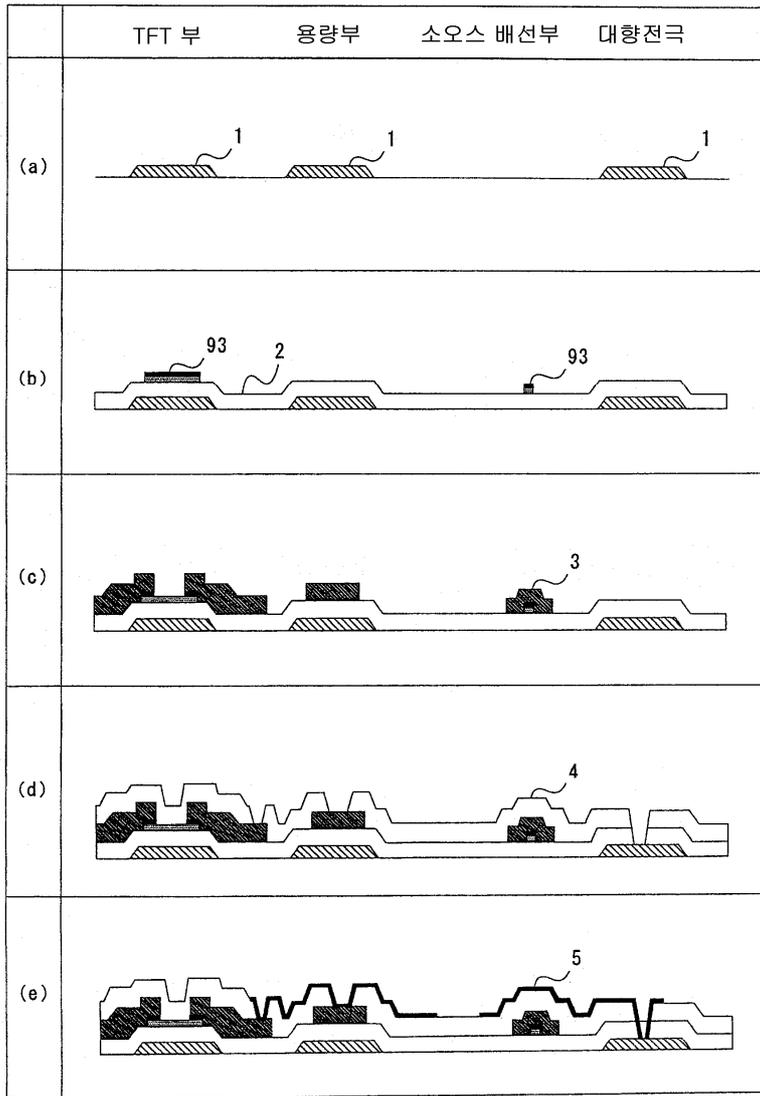
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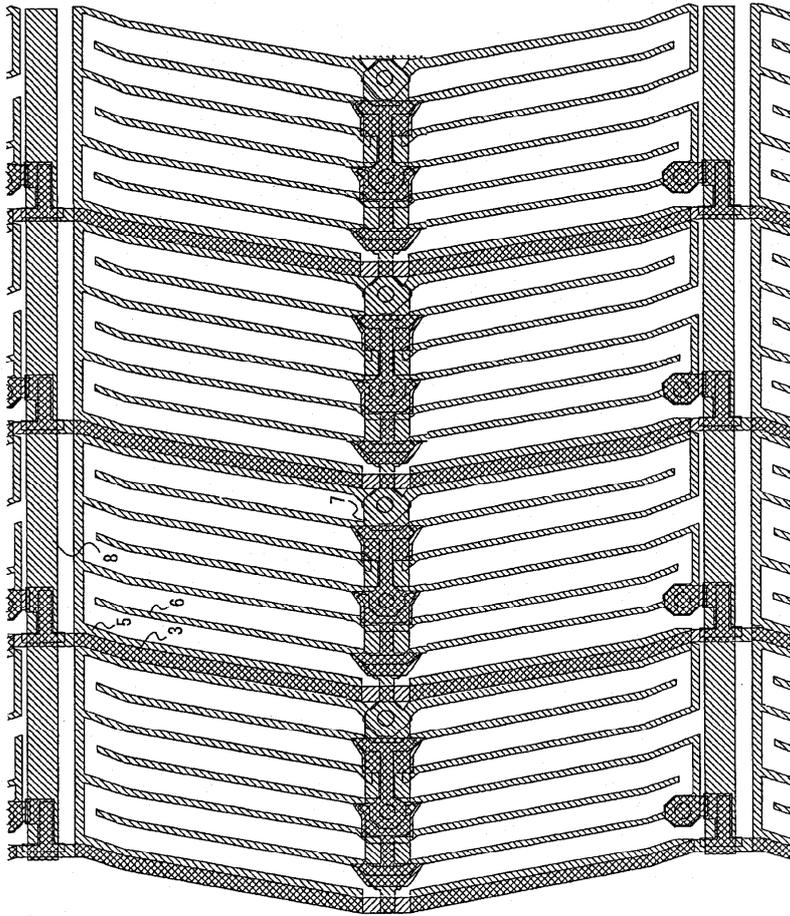




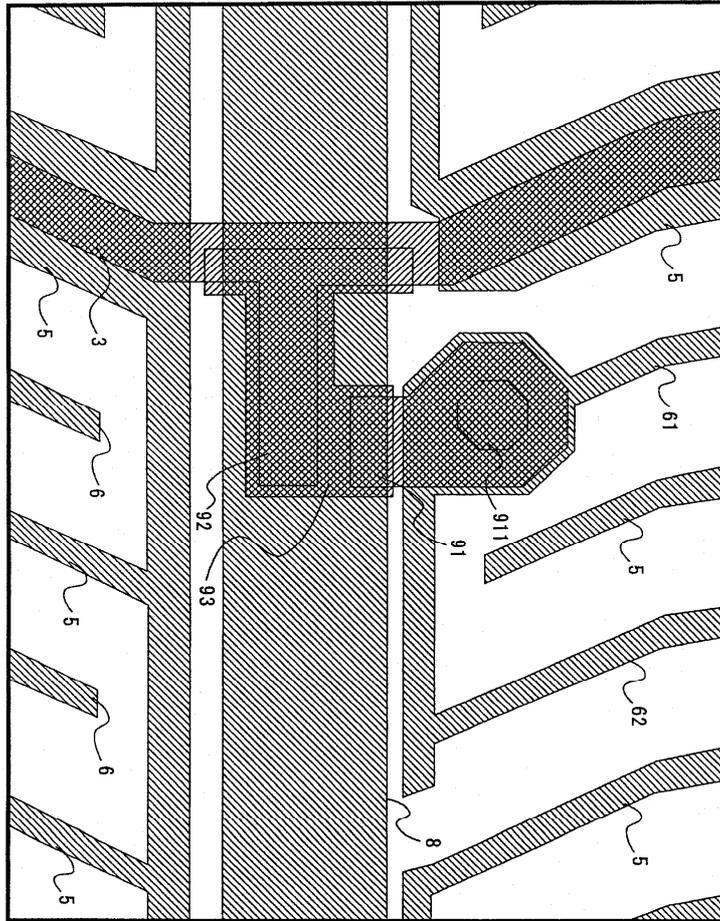
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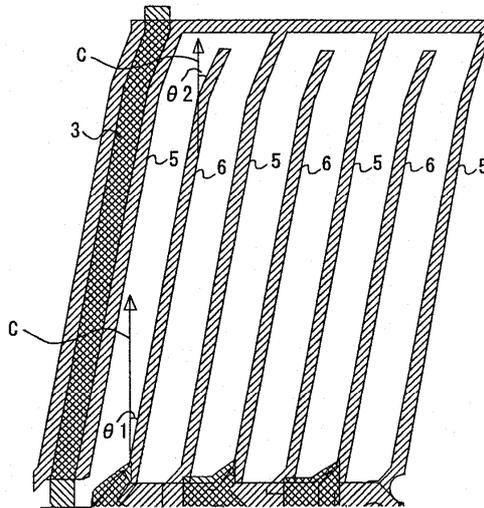
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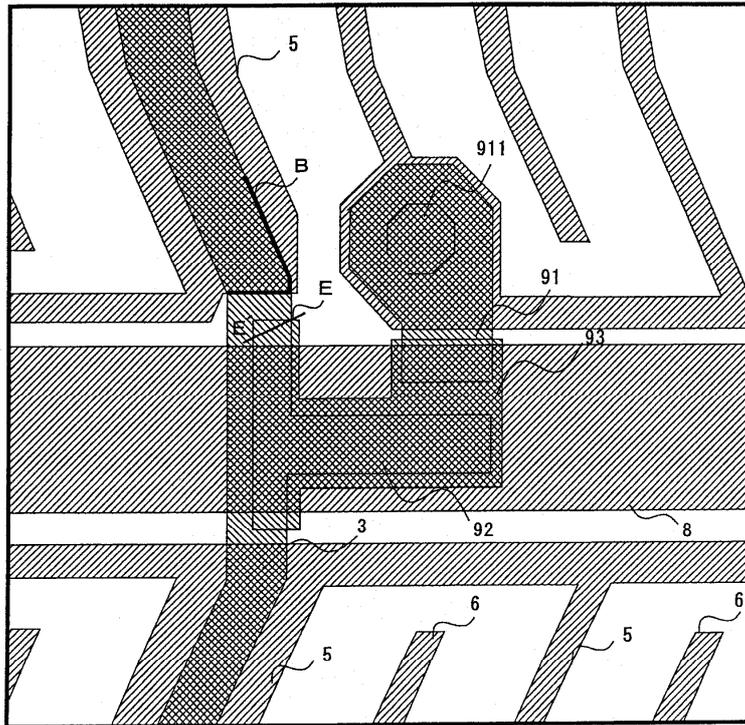
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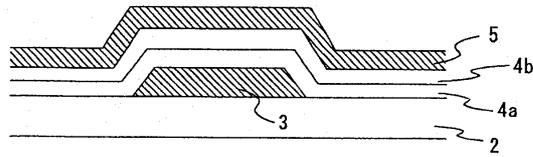


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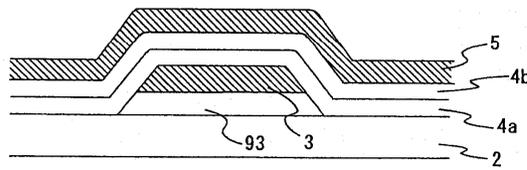


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(a)

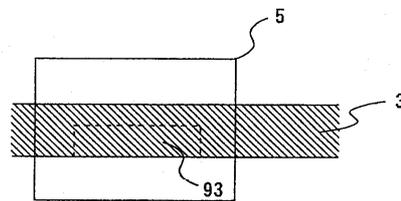


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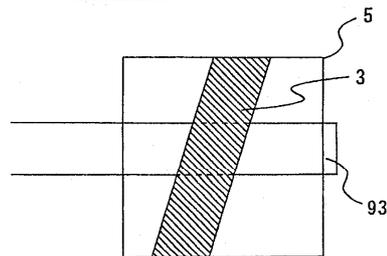


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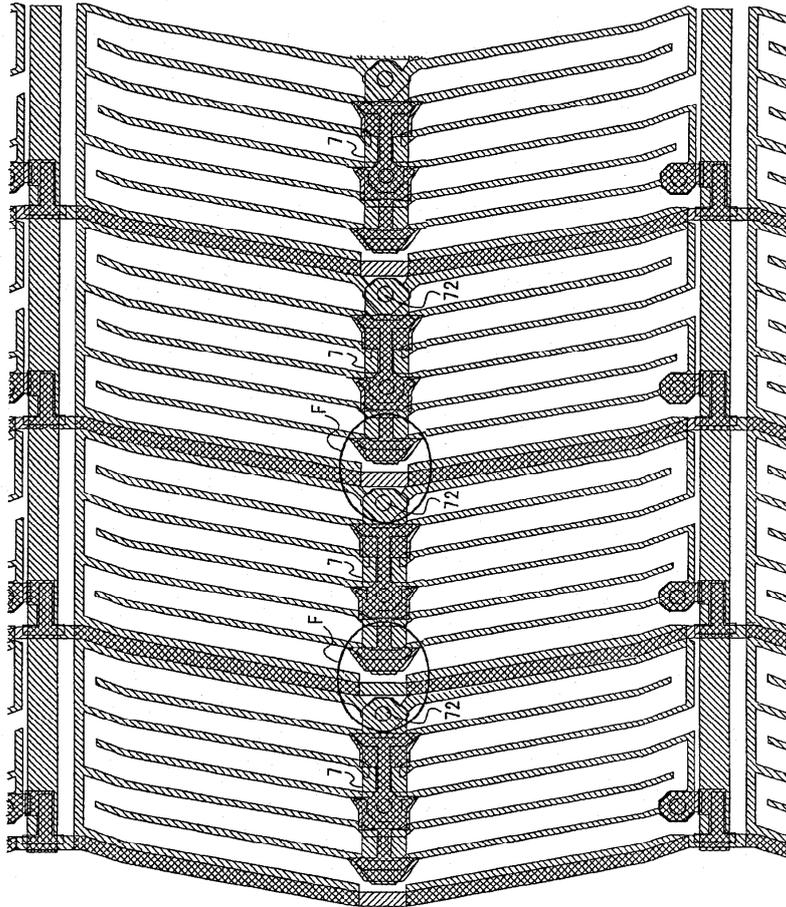
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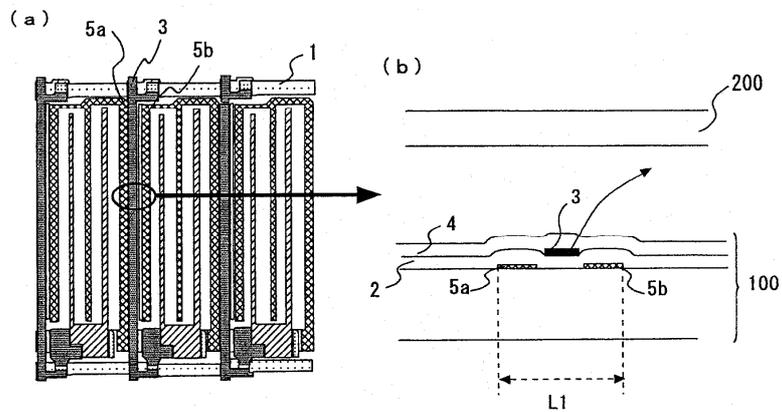
(b)



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专利名称(译)	液晶显示装置及其制造方法		
公开(公告)号	KR1020030082374A	公开(公告)日	2003-10-22
申请号	KR1020030018365	申请日	2003-03-25
申请(专利权)人(译)	提升者显示的激光炮的鼻子		
当前申请(专利权)人(译)	提升者显示的激光炮的鼻子		
[标]发明人	NAGANO SHINGO 나가노신고 MASUTANI YUICHI 마스따니유이찌		
发明人	나가노신고 마스따니유이찌		
IPC分类号	G02F1/1368 G02F1/1343 H01L21/336 G02F1/1337 H01L29/786		
CPC分类号	G02F1/134363		
代理人(译)	韩国专利公司		
优先权	2002112737 2002-04-15 JP		
其他公开文献	KR100709523B1		
外部链接	Espacenet		

摘要(译)

(对象)提供液晶显示器及其制造方法,以减少源极布线和公共电极之间产生的短路。(解决问题的手段)根据本发明的液晶显示器涉及平面切换模式,其中电场授权像素电极(6)和公共电极(5)之间的电压并且大致平行于将基板施加在液晶层上。在该液晶显示器中,允许使用绝缘层(4),并且公共电极(5)和源电极(3)的一部分重叠。并且绝缘层(4)包括多个绝缘层(4a, 4b)。液晶显示器。

