

(19)
(12)

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(A)

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2002 - 0094809
2002 12 18

(21)
(22)

10 - 2001 - 0033261
2001 06 13

(71)

20

(72)

105 303

681 - 11

2 64 - 5 (1/3)

6 365 - 18(10/2)

710 202 205

(74)

:

(54)

(odd)

2

,

,

가

3

1

2

,

,

5b

,

1

2 1 A

3a 3c

4

5a 5d

501 : 502 :

502a : 503 :

504 : 505 :

506 : 507 :

508 : 509 :

,

(TFT)

,

가

,

,

,

1

,

(101)

(102)

(101)

(102)

(103)

(104)가

(101)

(102)

,

(105) () .

, (101) (102) (odd) (101a)
(even) (101b) 1, 2 가 (Shorting bar) (106, 107))가 가
가

, 1 (101a) (108) 1 (106) (101b) ,

, 1 (TFT)

1

2 1 A

2 , 1, 2 (106, 107)가 (101a, 101b)
, 1, 2

, 1 1, 2
1

3a 3c

2 I - I`

3a , (301) (302) , (30
2) (303) (303)
(304) / (305, 306) (307)

, ITO / (305, 306) (307) ,
(308) (308)
(306)

, (301) (302a) ,
(302a) (303) (307) (302a)
(308) (308)

3b ,
(309)

, 3c (309)가 (308) (30
2a) (HCl)

(HCl)

가

AlNd

Al

. (4)

(crack)

(Galvanic)

, 2가

1

2

가

3

2

(Oxalic acid)

3

2

1

. (2)

5a 5d

5a
(AlNd)

(Al)

(501)

(Al)
(502)

(502)

(SiO₂)(SiN_x)

(503)

(503)

(a - Si:H)

(504)

(Cr)

(Mo)

/

(505, 506)

(505, 506)

(SiN_x)

(507)

(507)

ITO(Indium Tin Oxide)

(508)

(508)

(506)

(502a)

(502a)

(503)

(507)

(507)

(502a)

(508)

5b , (509)

(509)

8) 5c , (Oxalic acid) (50
4.5~5wt% (Al)

(Air Knife)

5d

(502a)

(509)

67%, 10%, 5%, 가

(HCl)

(Etchant)

(Al)

(Galvanic Effect)

(crack)

5a

5d

가

가

(57)

1.

1 ;

가

2 ;

3

2.

3.

4.

1, 2.

5.

1, 3, ,

6.

4, 4.5 5 wt%.

7.

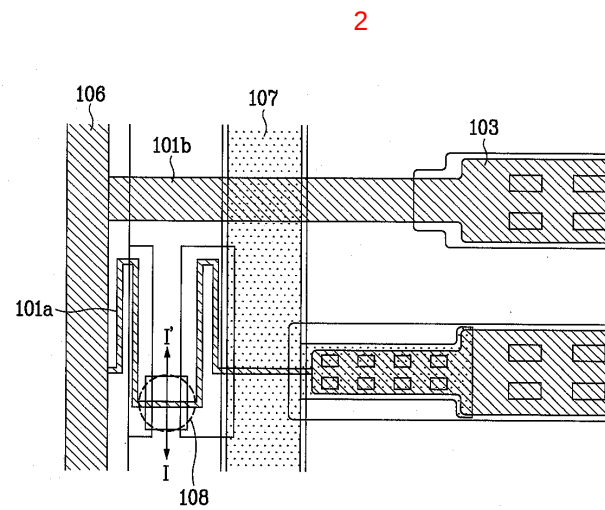
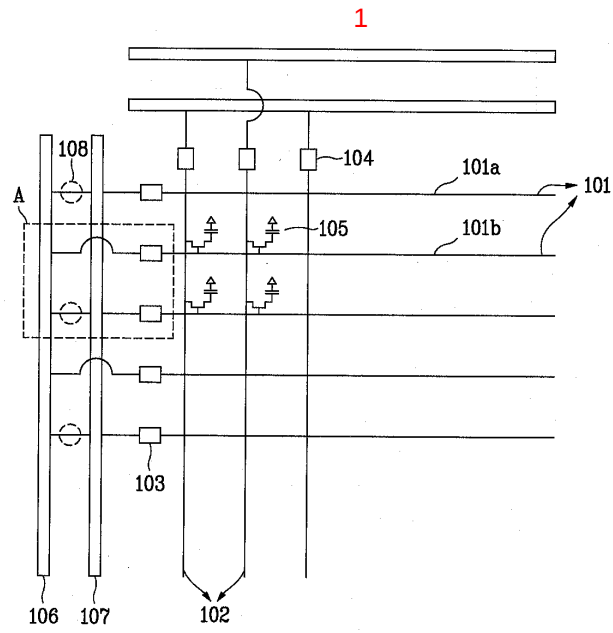
5, 67%, 5%, 10%.

8.

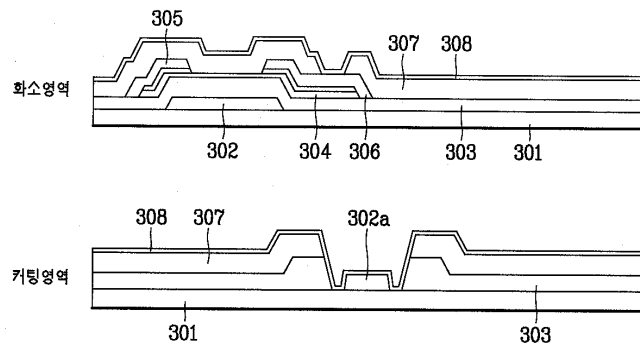
9.

1

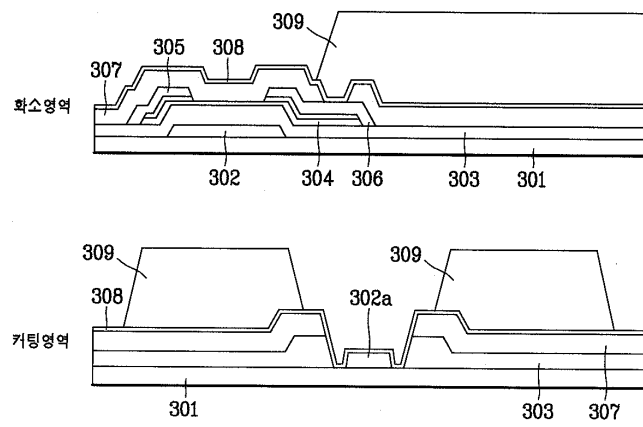
AlNd Al



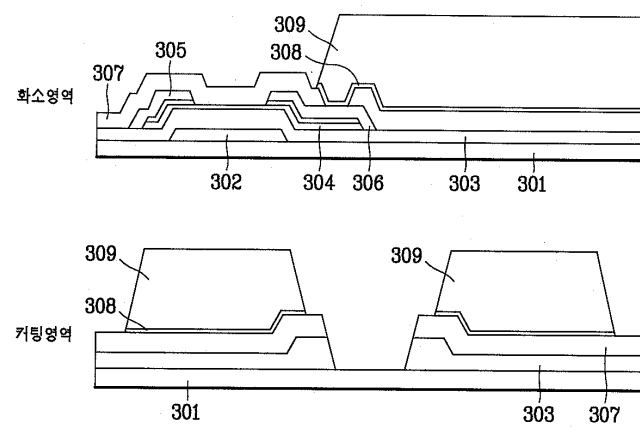
3a



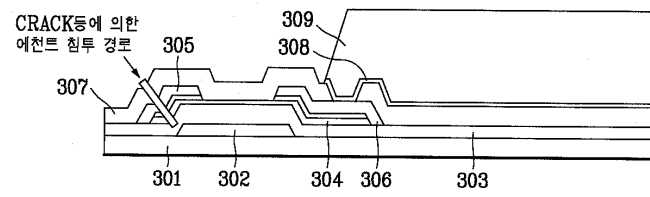
3b



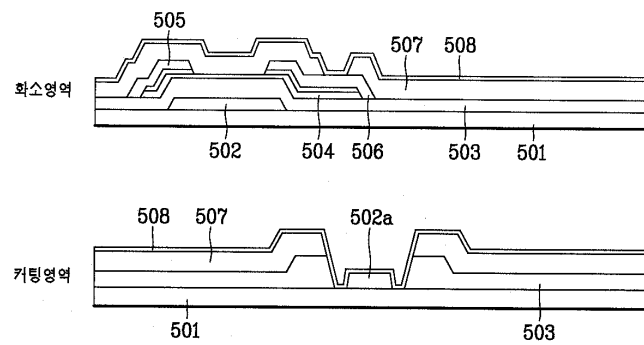
3c



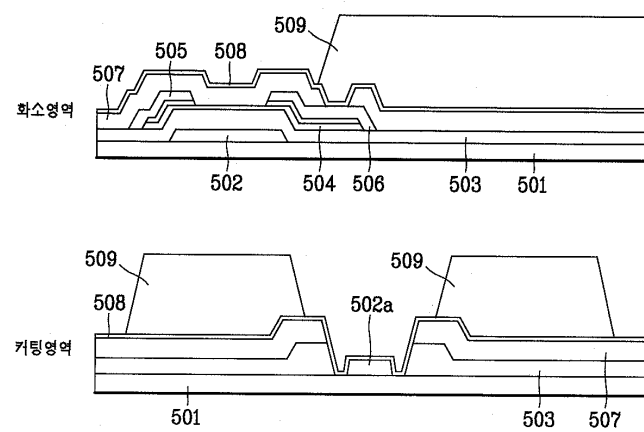
4



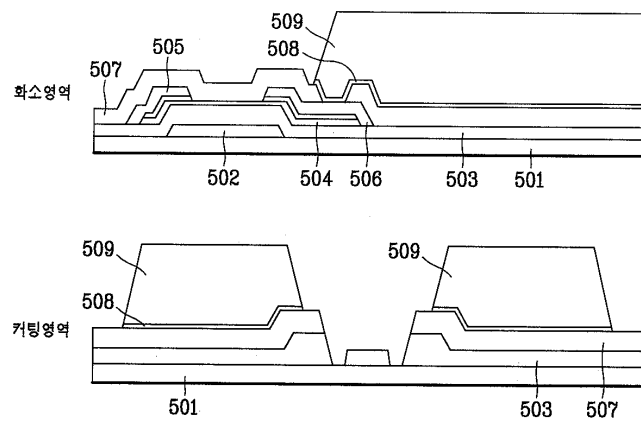
5a



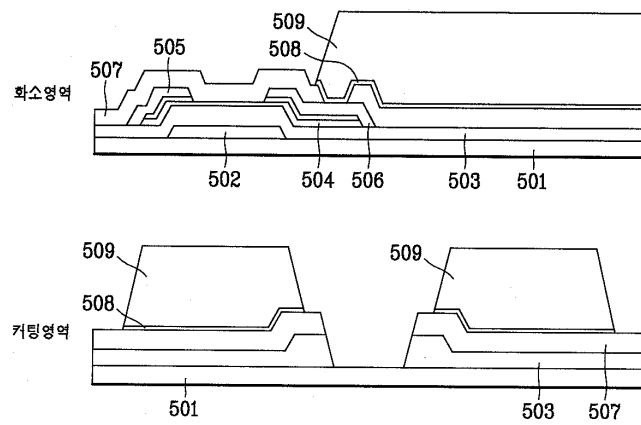
5b



5c



5d



专利名称(译)	液晶显示装置的制造方法		
公开(公告)号	KR1020020094809A	公开(公告)日	2002-12-18
申请号	KR1020010033261	申请日	2001-06-13
[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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摘要(译)

用途：提供一种液晶显示装置的制造方法，以通过降低蚀刻剂相对于栅金属的渗透性来降低废品率，并且尽管在像素电极和栅金属之间存在杂质，也可以防止电效应的产生。从而减少像素电极图案的损失。构成：一种制造液晶显示装置的方法，包括以下步骤：将光致抗蚀剂（509）掺杂到像素区域和焊盘部分的切割区域的预定部分，在焊盘部分和像素的切割区域中蚀刻像素电极（508）。用草酸使光致抗蚀剂未掺杂的区域蚀刻，并在切割区域中蚀刻栅金属（502a）。

