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2002 - 0056077
2002 07 10

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10 - 2000 - 0085365
2000 12 29

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103 1108

401

642 - 3

642 - 3

55 - 1055/5

624 - 3

104 601

(74)

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(54)

가, , / .

3

1

2

3

4a 4f 3

< >

4, 40 : 6, 41 :

7 : 8 :

10, 46 : 11, 13, 15, 16, 45 :

12 : 14 :

20, 42 : 21, 43 :

22, 47 : 23, 51 :

30, 32 : : 31, 33

48 : 49 :

, (Liquid Crystal Display; LCD)

(Active Matrix)

(Integrated

Circuit; , IC) IC (Chip) (TAB; Tape Autoamted B
 onding) TCP(Tape Carrier Package) COG(Chips On Glass)
 . TAB IC TCP

1 , 가 .

1 (2) (4) (6) (8) ,
 IC (8) (12) (14)
 (8) , (4) 가 가 가 가
 , (6)
 (4, 6)
 가 (4) 가 (12) , (14)
 (12) IC (8)
 (14) IC (8)
 (6) (4) (8) (10) (12),
 (14), (7) (8) (4) 1 4
 (11,13,15,16) (10) (12)
 (14)
 가 1 2 (11,13,15,16) (10)가
 (8) (12), (14), (7) (8) (8)
 (12), (14), (7) (8)

1 (10) 1 2 (11,13,15,16) (10)
 1 (11,13,15,16) 가 .
 2 2 , (11,13,15,16) (4) (11,13,15,16)
 (4) 0 (4) (20), (21), (22)
 (23) (30) (30) (4) (31)
 (30) (4) 10300 (31) (4) 0
 (4) (21), (22), (24) (23)
 (32) (32) (4) (33) (32) (4) 95
 00 (33) (4) 0 (7) (4)
 (20), (21), (24) (23) (14) (4) (7)
 (4) 1000 (20), (21), (24) (23) (")
 ") (4) (7) (4) (10)가 (10)
 , 가 가 , 가
 (4) (6)
 (30,32) (31,33)

, 가 / , 가 가

3

(40) 6500 (40) (42) (43) (X1 X2)

(45)가 (41) (43) (40)

4a 4f 4

4a 4f 4

4a (Al) (Cu) (4) (42)

(40) (40) (42) (43), (47) (48)

CVD (43)

N , P (47) , (48)
 (Mo), , MoW, MoTa MoNb (48)
 / (49) / (Mo alloy) CVD (49) (4
 8) / (49) .
 가
 10 50% 가 (49)
 (50) . (50) 10 50%
 (half tone) 가
 (50) / (49)
 (48) .
 , (48) (47) .
 (48) (47), (43)
 (50) 10 50%
 4c (50)
 , (Ashing) (50)
 , / (49a, 49b) (50) / (49)
 4c (49a, 49b) .
 4d , (49a, 49b) (50) .
 4e , (47) (49a, 49b)
 (51) . (51) (acryl) , BCB
 PFCB 가 (51) (47)
 (49a, 49b) 2 .
 , (51) (47)
 가 가 (51)
 (51) 1 (52) (51) (4
 3) , (47) (51) (4
 7) (43) 1 (52)
 (43) .
 4f , (43) (51) 1 2 (52, 53)
 (42) (49b) (Indium Tin Oxide : ITO), (Tin
 Oxide : TO) (Indium Zinc Oxide : IZO) .
 2 1 (53, 52) (49
 b) (42) (54) .
 , / 가
 가

가, 가

(57)

1.

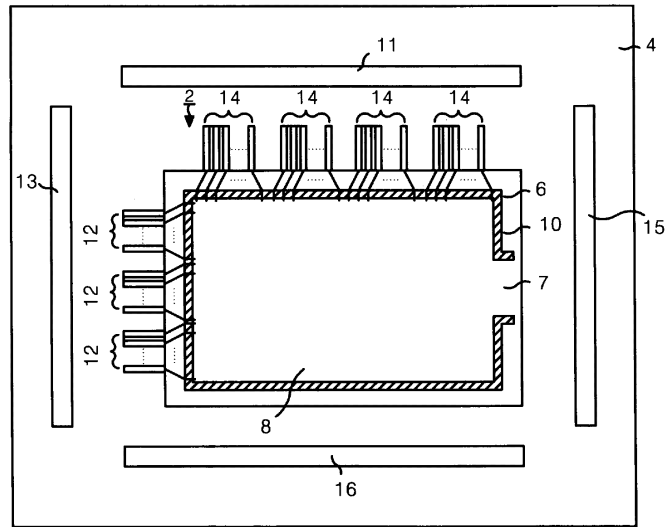
2.

1

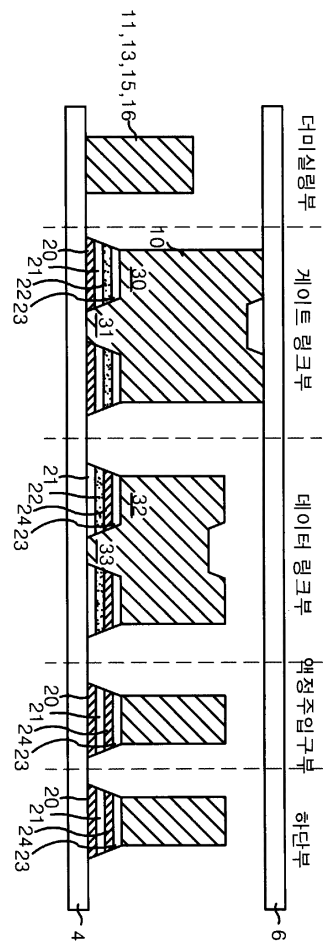
가 6500

3.

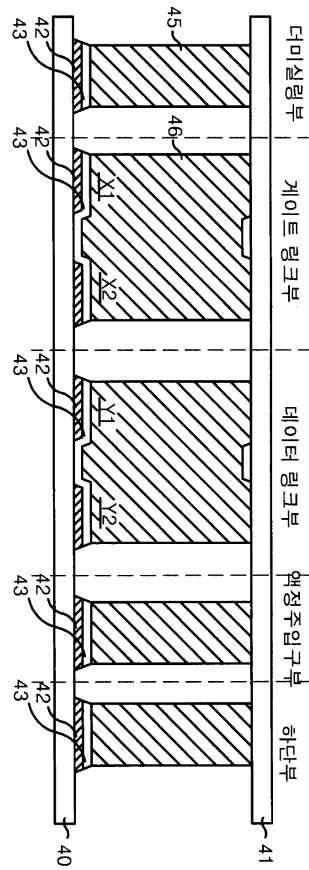
1



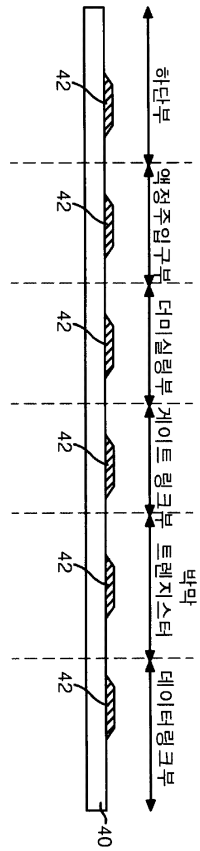
2



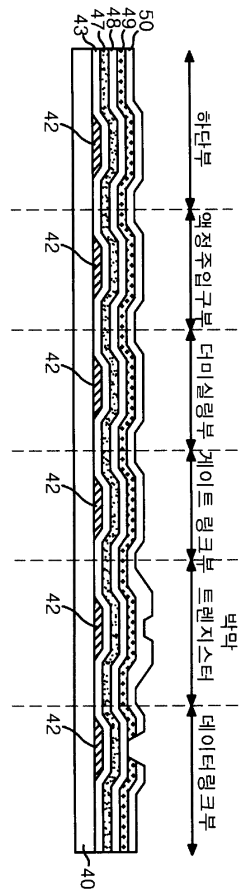
3



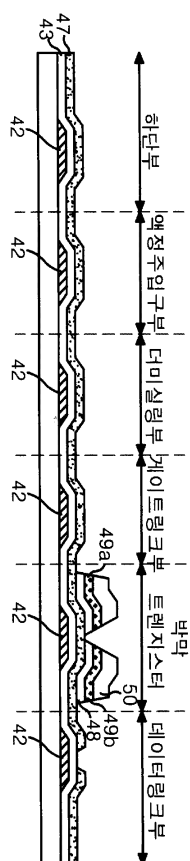
4a



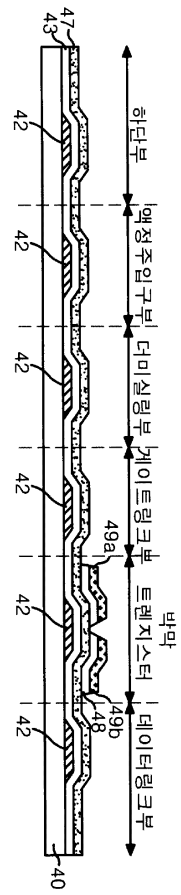
4b



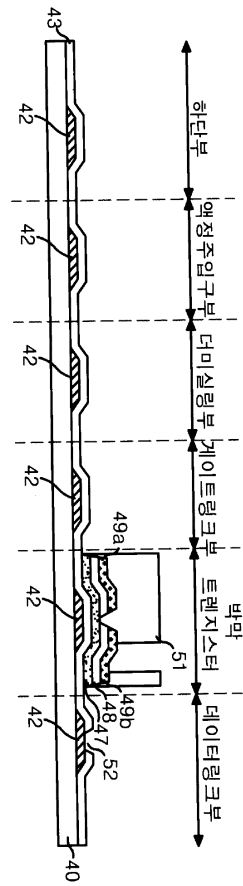
4c



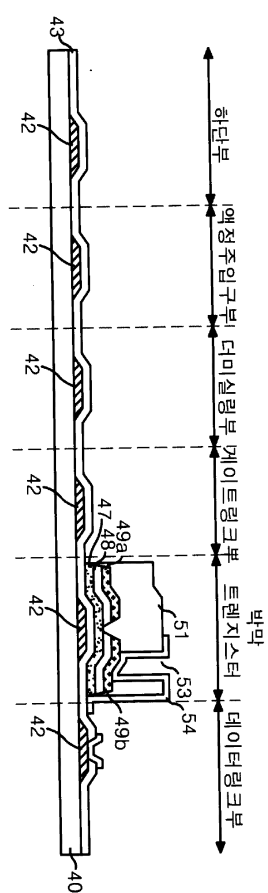
4d



4e



4f



专利名称(译)	液晶显示装置及其制造方法		
公开(公告)号	KR1020020056077A	公开(公告)日	2002-07-10
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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)

本发明涉及液晶显示器及其制造方法，用于形成均匀的液晶盒间隙。本发明包括用于防止液晶流出到外部的该密封部分和形成在栅电极上的栅电极：栅极绝缘层，该栅极电极形成在具有用于减小步进的虚设腔环段的液晶显示装置上该密封部分的外侧的滑轮和该密封部分，虚设腔环段和下板之间的液晶面板。在该密封部分，虚设腔环段和下板之间形成本发明的层同样地形成。以这种方式，它使虚设腔环段的垂直台阶和在层上形成的该密封部分相同。因此，可以在相/下板密封中均匀地形成单元间隙。此外，通过单元间隙的均匀性，可以改善单元间隙的韧性，以及不规则的污迹和纹波缺陷。

