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(43)

10-2004-0061991
2004 07 07

(21) 10-2002-0088301
(22) 2002 12 31

(71) . 20

(72) 16-54 202

(74)
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(54) 가

8

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1

2

3 2 III-II

4 3 F

5					2	V-V
6						
7						
8	2	V-V			1	
9a	9c	2	V-V		2	
10a	10d	2	V-V		3	
11a	11c	2	V-V		4	
12a	12d	2	V-V		5	
13a	13c	2	V-V		6	
14a	14c	2	V-V		7	
15	2	V-V			8	

< >

100, 200, 300, 400, 500, 600, 700 :

120, 220, 320, 420, 520, 620, 720

130, 230, 330, 430, 530, 630 :

160, 260, 360, 460, 560, 660, 760 :

505, 15 :

725 :

가

가 가

1

(18) (22) (5) (11) (P) (6) (7) (17) (14) (T)
(22) (T)가 (matrix type)
(13) (15)
(P) (13) (15)
(17)
(5, 22) (11) (5, 22) ()
(5, 22)

(screen) (dispencer)
UV() (epoxy)
(amine)
(2) (prebaking) 가

2

(22)
(2a) (2) (2a) (2b)
(2b) (22) (22) ()
(2a)

3

2 III-III

3

.)

(23) (T)
(inverted staggered type)
(22) (Al), (Cr), (Mo) 가
(1 13) (32)

(32) (33) (22) (SiO2), (SiNx) 1

d type) (36) (33) (Islan

(1 13) (1 15) (1 15) 가 (32) (39)
 (41) (BCB) (Acryl) (resin) (35)
 (38) (22) (22) 가 (2) (5)
 (2) (5) (22) (5) (18)
) (22) (35) (22)
 4 3 F
 , W 가 (22)
 (2) (35) (35) (2) (35)
 (37) (33) (22)
 , 3 (2) 가
 (23) (2) (2) (2)
 (2) (23) (2)
 (W) 가 (2) (2)
 (35) (2) (2) (22) 가 (buffer a
 rea) (2) (2) (stress) (33)
 (35) (22) (33) 가 (35)
 5 2 V-V
 (33) (21) 1 (SiNx) (SiO2)
 (35) (35) 2 (BCB) (Acryl) (resin)
 (35) (33) (38) (39) (3)
 8) (35) 가 (38) (35) 가 (35)
 (38) (38) (39) (35) (38)
 (35) (38) (S) (38) (35) (38)
 가 (35) (38)

ITO

- 1 -

8 2 V-V 1

1 (SR) (10) 1 (20), (30)

2 (40) 1, 2 (20, 40) (BCB) (SiNx) (Acryl)

(SiO₂) (resin)

2 (10, 50) (60)

(60) (10, 50)

(40) (60) 1

(60) (R)

(R)

1 (60) 2 (40) (40) (60)

(30) (30) (R) 2 (40)

- 2 -

2 9a 9c

2 9a 9c 2 V-V 2

9a (photo-resist)

(100) 1 (110),

(120) (120) 2 (130) 1, 2 (120)

(BCB) (SiNx) (Acryl) (resin)

(130) (100) 1 (110), (120), 2

(140)

55 (slit mask)(150) (140) (140) (1

(150)

(155) 가

(155) 가

(A) (155) 가 (155) (140) 가 (140) (B) (140) 9b 2 (140) (110) 가 (140) 2 (130), (120) 1 (110) (140) (165) 2 (130), 1 (120), (110) (165) 가 가 (165) (W) 가 (165) 9c (160) (C) (165) (160) 1 (110) (160) (100) (160) (100) (180) 20) (160) 1 (165) (110) (100) 가 (1) (160) 3 3 2 10a 10d 2 V-V 3 10a 10b (220) (200) 1 (240) (210) (255) (250) (265) 1 (210) (D) (265) (200) 10c (SiO2) (SiNx) (220) (265) 2 (230) (200) (265) 2 (230) 1 (210) 2 (D)

10d (260) , (200, 280) (280) (200)

3 (220) (260) (260) (220) 3

- 4 -

4

11a 11c 2 V-V , 4

, 11a , (300) 1 (310), (320) 2 (330)

1, 2

, (300) 1 (310), (320) 2 (330)

(300) 2 (330) (340)

, (m1) (m2) , (stripe) 2 (330) (340)

11b (340) (m1) 2 , (320) 1

, 2 (330) (320) , 1 (310) (320)

300) 1 (310)

, 1 (330) (340) (W) , (h1)

, (h2)

(360) 11c , 가 (360)

, (h2) (300)

, 3 가

, 가 W

- 5 -

5

12a 12d 2 V-V , 5

, 12a , (400) 1 (410) (420)

, (400) 1 (410) (420) (400)

, (420) (440) , (n1) (n2)

, (440) (420) (n1) (n2)

(stripe)

12b (440) (n1) (420) 1 (410)

1 (410) (420) 1 (410) (400)

(h2) (430) (440) (W) (h1)

(SiN_x) 12c 가 (SiO₂) (430) 2

0) 12d (h4) 2 (430) (460) (400) (46)

5 가

가 가 W

- 6, 7 -

6, 7

13a 13c 2 13a 13c 14a 14c 2 13a 13c 14a 14c 6

V-V V-V (6, 7) 3 7

3 (3 T)

d type) 6 (inverted staggered)

(500)

(505) 가

13a (520) 가 (505) 14a (615) (505) 1 (510) () 가

(620)

13a 14a (500, 600) (505, 615) (500, 600)

(540, 640) 5 (530, 630) 2

13b 14b 13a 14a , 13b
 2 2 (530), (520) 1 (510) , 9b
 2 (630) (620)

(505, 615)

(h5, h7) (h6, h8)

W

13c 14c 13b 14b
 (560, 660) (580, 680)

(h5, h7)

(560, 660)
 (h5, h7)

(560, 660)
 (505, 615)

(505, 615)

(520, 620)

(560, 660)

가

(560, 660)
 (505, 615)

- 8 -

15 2 V-V , 8

8 , 8 1 2 (8 40)
 (8 30) (760)
 (725) (ITO)

8 , (725) (760) (725)
 (720) (760) (720)

(57)

1.

1, 2 ;

1, 2

가

;

1

1

1 2.

1 , 2

2 3.

1, 2 (SiNx) (SiO2)

2 4.

2 5.

가 1 , , 2

2 6.

가 1 2

2 7.

1 가 , , 2

2 8.

가 , 2 1

2 9.

, 가 2 1 , 1

10.

1, 2 ;

1, 2

가

;

1

11.

5

9

(SiNx)

(SiO2)

12.

5

9

13.

9

1

14.

9

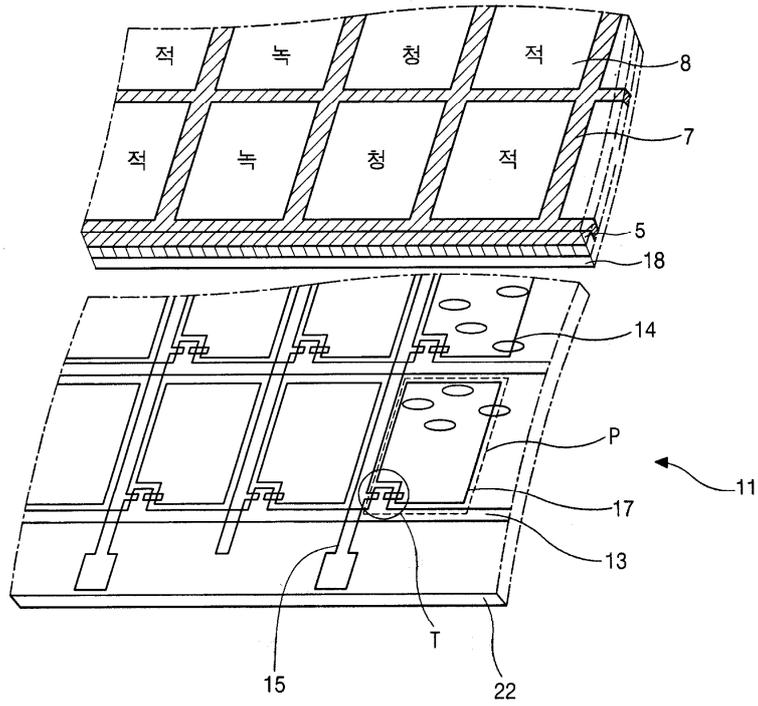
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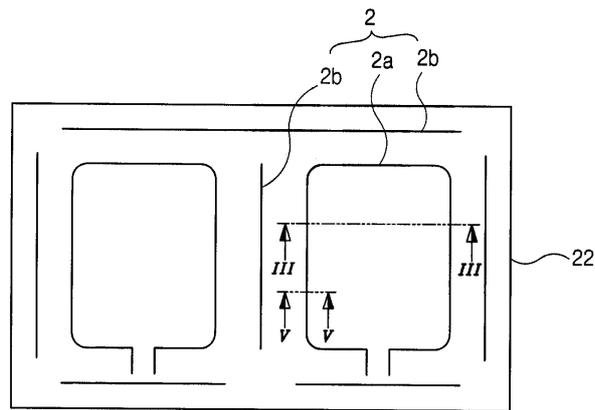
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ITO

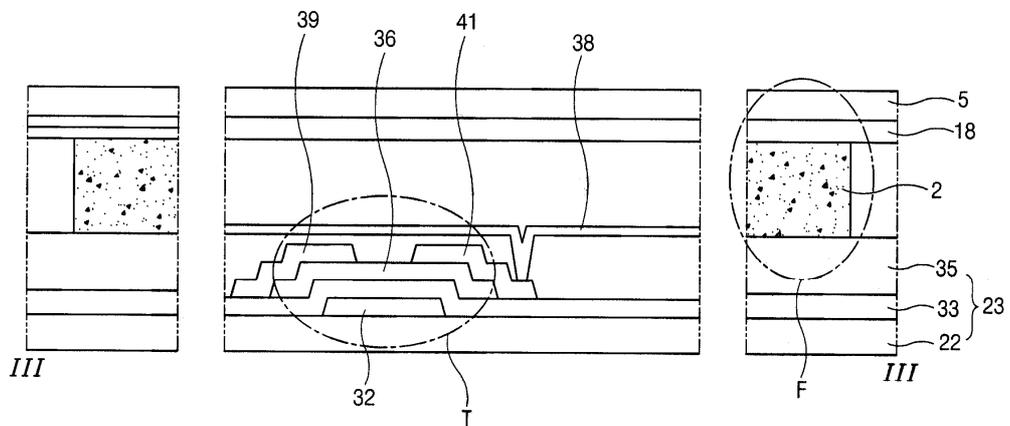
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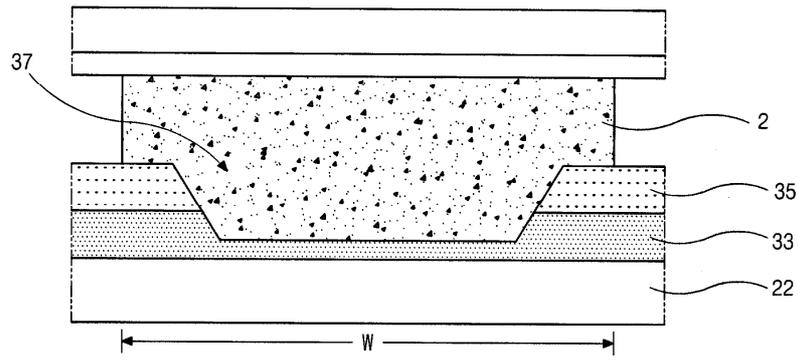
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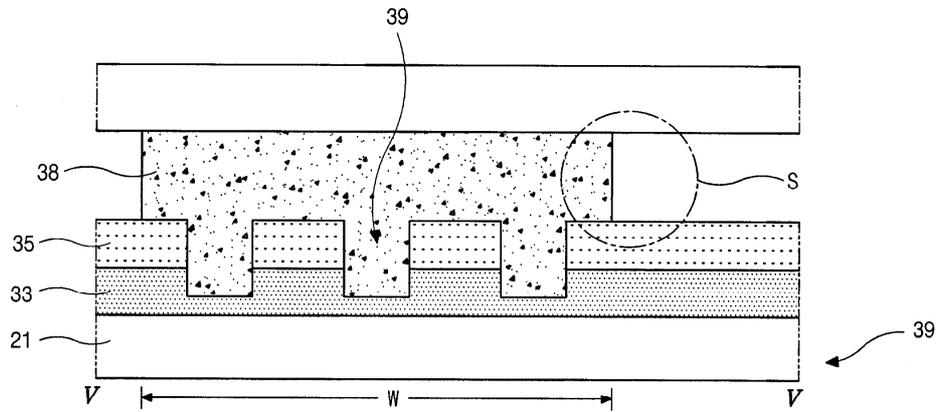
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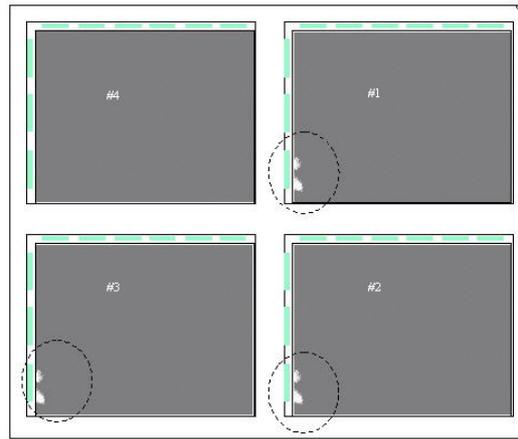
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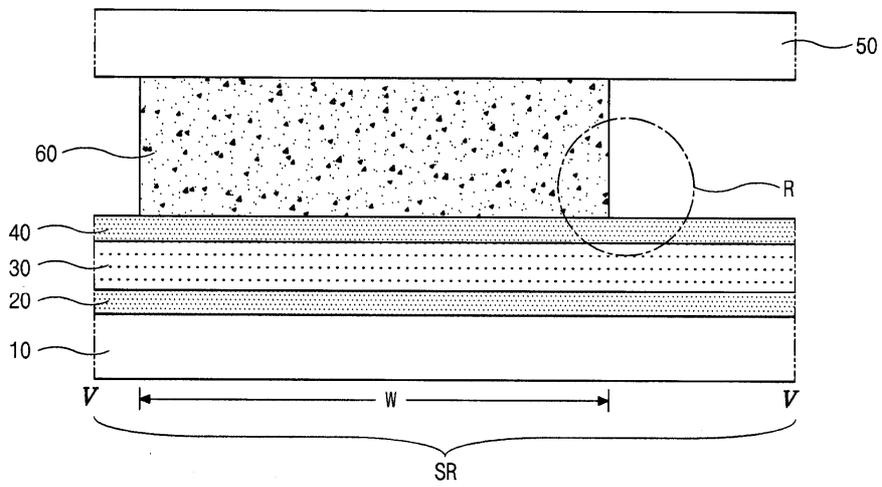
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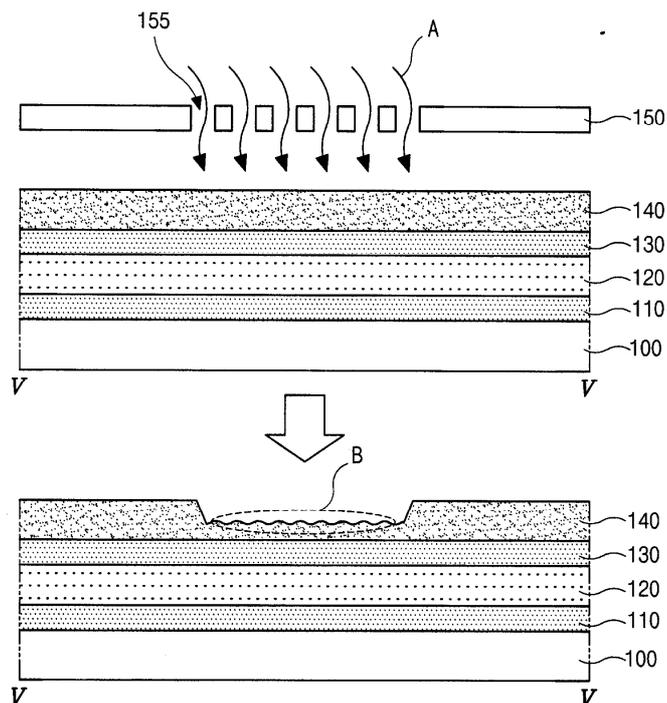
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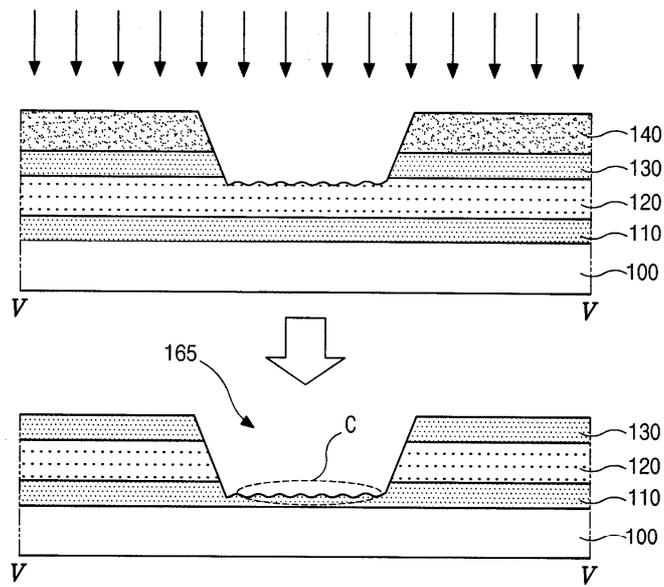
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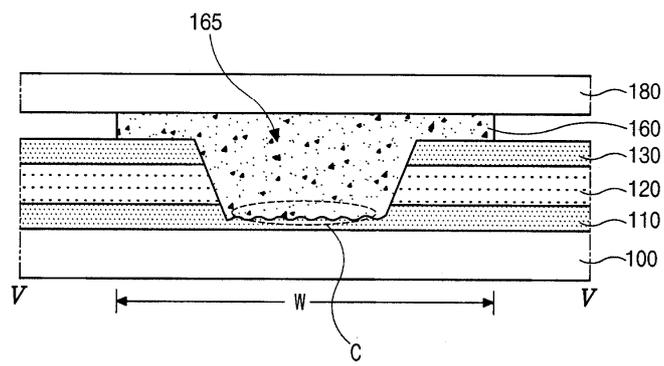
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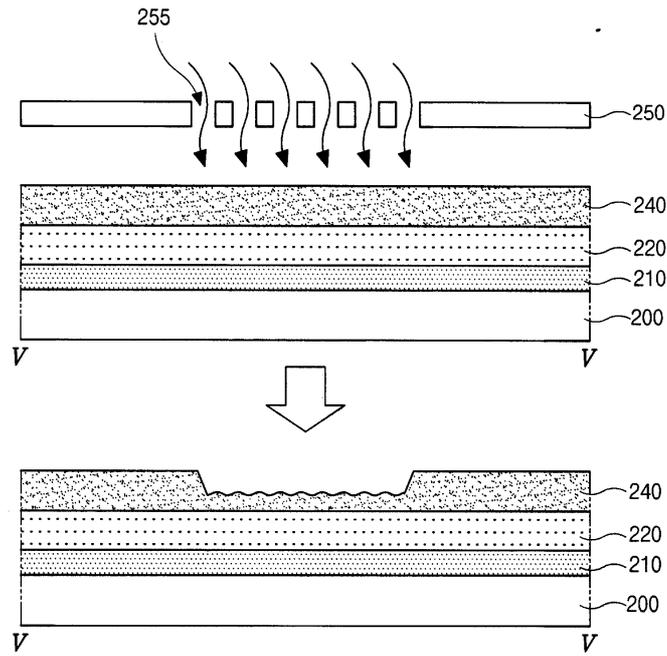
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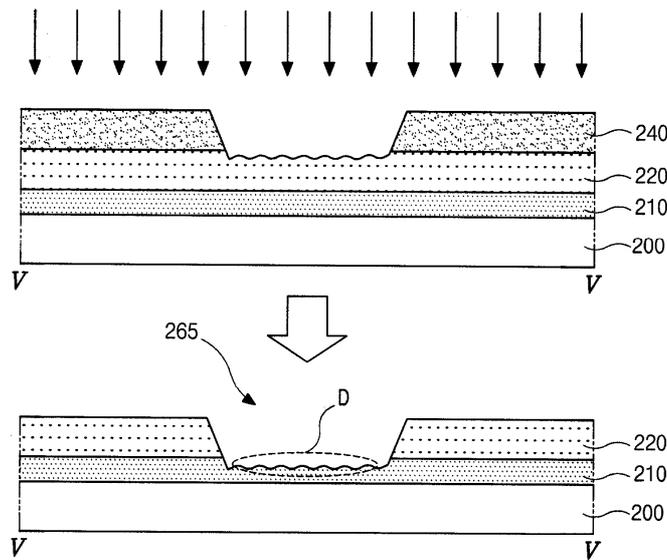
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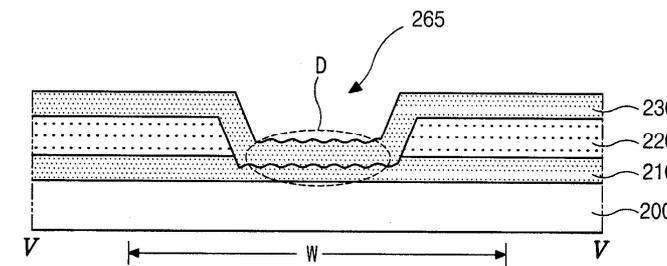
10a



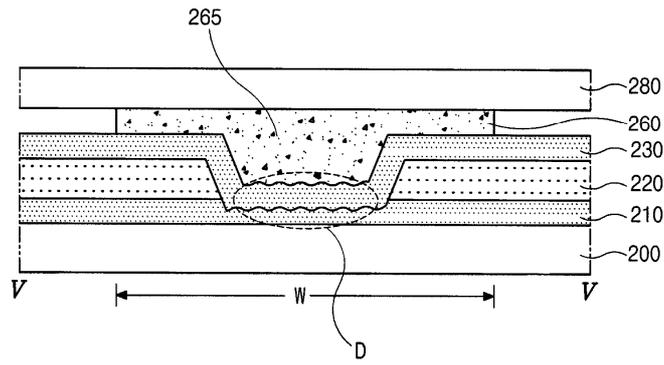
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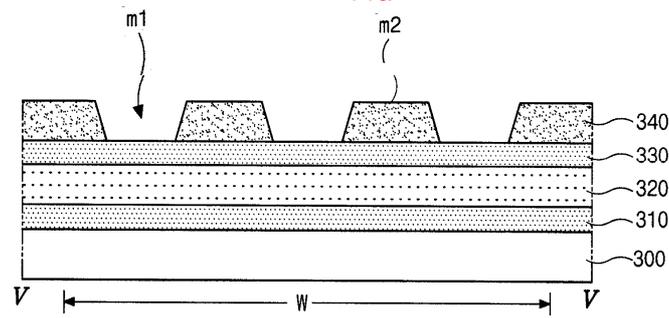
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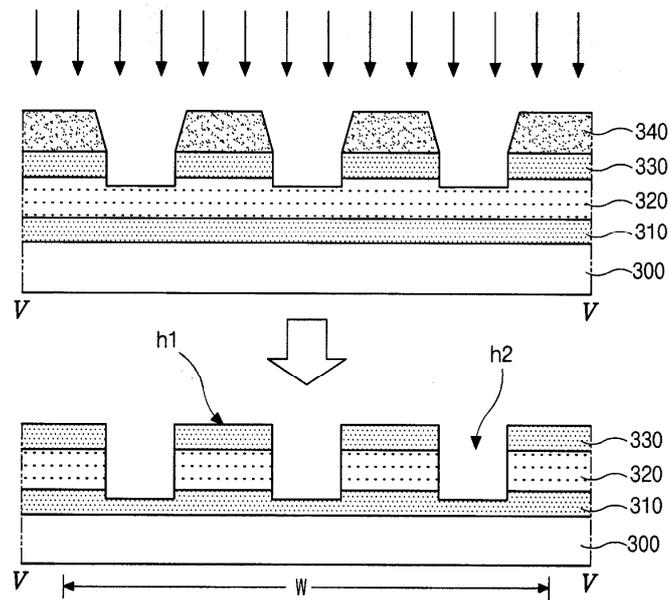
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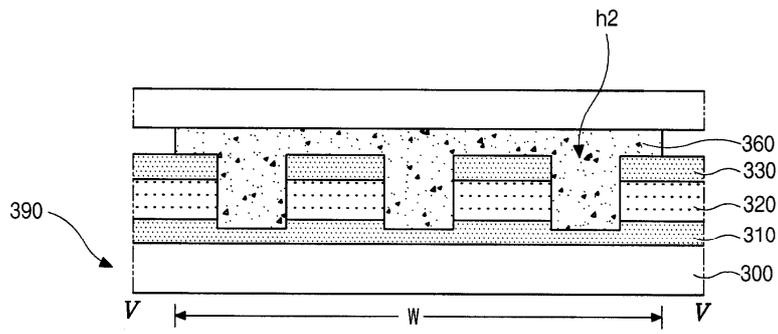
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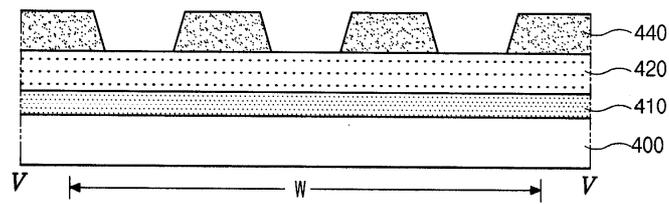
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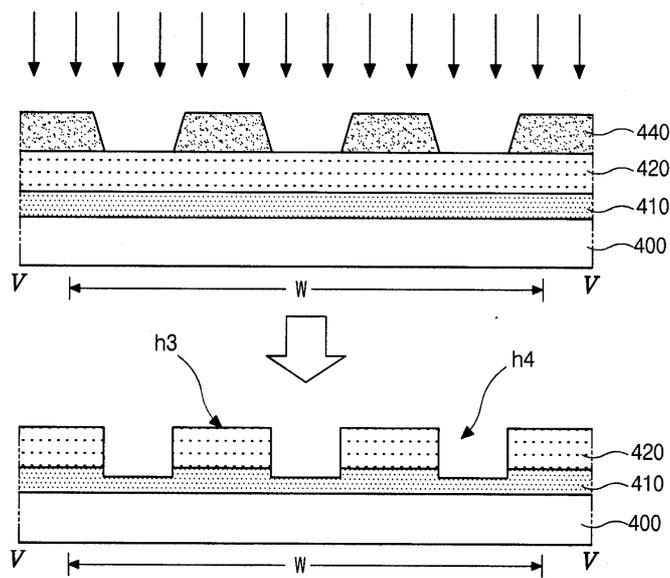
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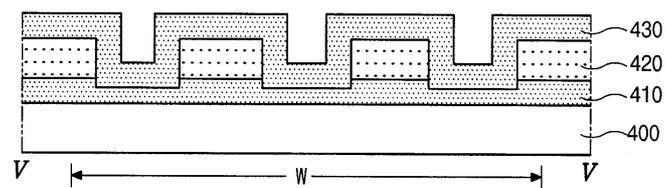
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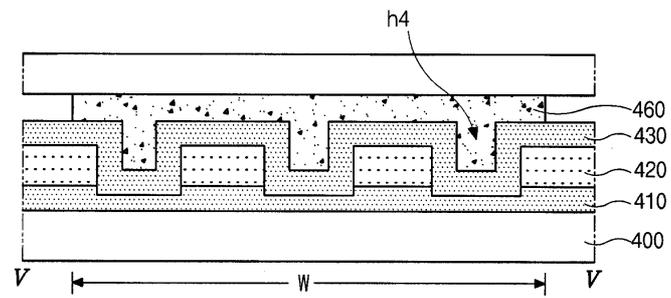
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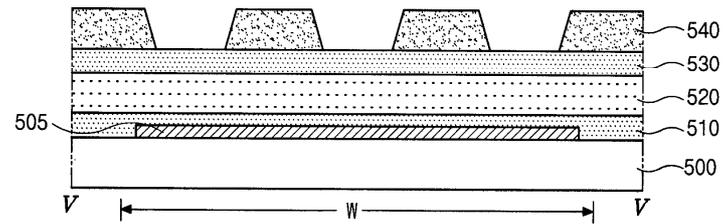
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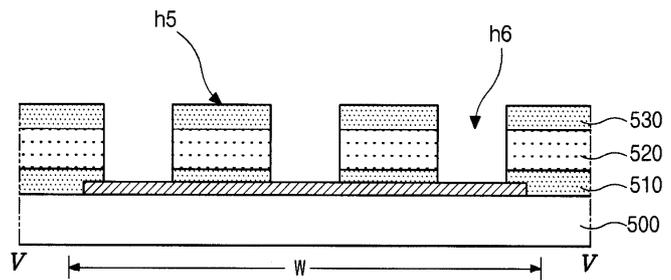
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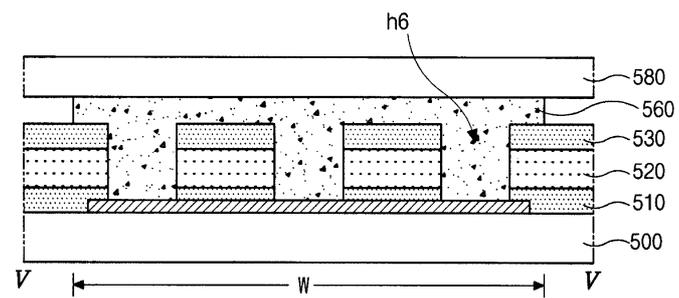
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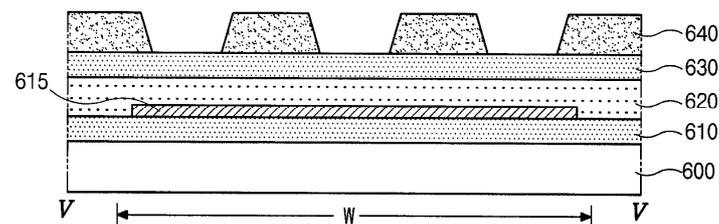
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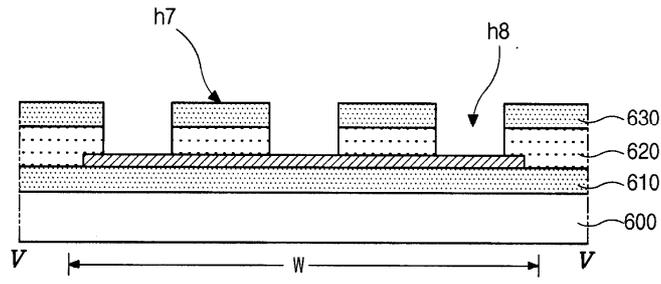
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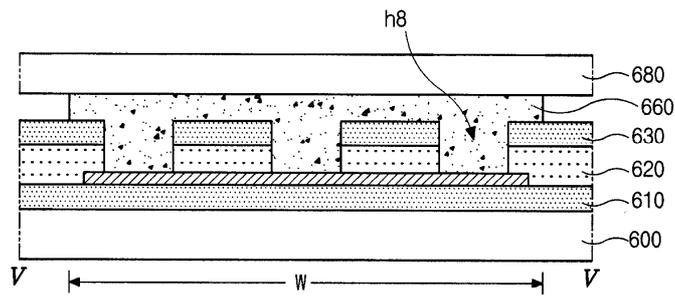
14a



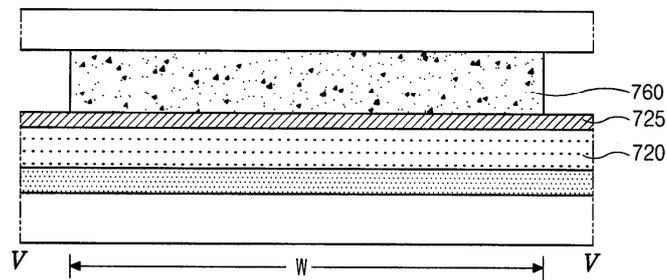
14b



14c



15



专利名称(译)	一种液晶显示装置，其特征在于，在密封图案下具有层叠结构		
公开(公告)号	KR1020040061991A	公开(公告)日	2004-07-07
申请号	KR1020020088301	申请日	2002-12-31
[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	KIM HYEYOUNG 김혜영		
发明人	김혜영		
IPC分类号	G02F1/1339		
CPC分类号	G02F1/1339		
其他公开文献	KR100972148B1		
外部链接	Espacenet		

摘要(译)

液晶显示器技术领域本发明涉及一种液晶显示器，更具体地涉及一种形成用于印刷密封剂的密封图案区域的方法，该密封剂是用于附着液晶显示装置的上基板和下基板的装置。在本发明中，可以防止密封图案由于形成在液晶显示装置的下基板上的有机绝缘膜与下部膜之间的粘附性或者有机绝缘膜与密封图案之间的粘附性之间的粘附力减弱而破裂，为了防止由于绝缘膜和密封图案之间的化学反应而污染液晶，去除密封图案形成区域中的有机绝缘膜，并且在去除位置处形成无机绝缘膜层以改善有机绝缘膜的粘附性。提供一种能够保护液晶显示装置的液晶显示装置。8 指数方面 有机绝缘薄膜，附着力，密封剂，有机绝缘薄膜的去除，无机绝缘薄膜，有机薄膜的保护

