

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
G02F 1/1335

(11)
(43)

10-2004-0102261
2004 12 04

(21)

10-2003-0033611

(22)

2003 05 27

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501 105

642-3LGPL PhilipsLCD.

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3 2 -

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5	1	
6a	6e	2
7	2	
8a	8e	2
9	3	
10a	10f	3
11	4	
12a	12f	4
13a	13b	

41 : 42 :
 43 : 44 :
 45 : 46 :

, (高)

가 , LCD
 (Liquid Crystal Display device), PDP(Plasma Display Panel), ELD(Electro Luminescent Display), VFD(Vacuum Fluorescent Display) 가 가 ,

hode Ray Tube) LCD가 가 CRT(Cat

가

가

가

가

가

가

EL, CRT, LED(Light Emitting Diode)

(transmission type)

(reflection type)
(back light)

(power consumption)가

가

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1 (19) (16) (11) (17) (13) (13) (11)

(19)

(19)

가

(13) (11)

(13) (21) (23) (25)

(21)

$\lambda/2$ (23) 가 2 $\lambda/4$ 가 1

(23) 가 , 가

(25)

2 , 3 2 -

2 3 , (11) (11) (36) (T)가

(36) (photo acryl) (37a)

(37a) (T)가

(16) (37a) (36) (31)

(16) (36) (37a) (37a)

38) , (37a) (11) (38) , (

(16) .

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4 , (36) (37a) 가

가 .

, θ_1 θ_2 가 가 .

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, 4 θ_1 θ_2 가 .

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5 가 , (41) (42) ()가 ,

(42) (42) (43) , (43)

(42) (44)

(46) (44) (42)

(46) (44) (44)

(44) (43) (asymmetric)

가 .

(43) (44) (42)

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(41) ,

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(42)
eflon), BCB(benzocyclobutene), (cytop) PFCB(perfluorocyclobutane) 가, (T

, (43) (44) (46) (42)

6a 6e 1 .

6a , 가 (41) (42) .

(42)
eflon), BCB(benzocyclobutene), (cytop) PFCB(perfluorocyclobutane) 가, (T

, (41)

6b , (42) (43) .

, MoW, MoTa (Al), MoNb (Cu), (W), (Cr), (Mo), (Ti) (Ta)
(Moalloy) CVD

, (42)

6c , (43) (41) .

, (42)

, (43) .

, (44) .

, 110~160 .

6d , (42)
(45) .

6e , (45) (41)
, (46) .

(46) (42) (44)

, , Al , Ag , MoW , Al-Nd , Cr

, (46) (43) (44) (4

2)

7 2 .

7 가 , (51) (51) 1 (52) ()가 ,

1 (52) (52a) .

1 (52) (52a) 1 (52) (53)

4) , (53) (51) 2 (54) (56) , 2 (5

(56) (53) (53)

가 (53) (52a) (asymmetric)

가 1, 2 (52,54) (Teflon), BCB(benzocyclobutene), (cytop) PFCB(perfluorocyclobutane)

8a 8e 2 .

8a , 가 (51) 1 (52) .

1 (52) (Teflon), BCB(benzocyclobutene), (cytop) PFCB(perfluorocyclobutane) 가 ,

8b , 1 (52) 1

(52) (52a) .

8c , (52a) (51) .

1 (52)

(52a)

(53)

110~160 .

8d , (53) (51) 2 (54) ,

(55) 2 (54) 1 (52)

2 (54)

8e , (55) (51)

(56)

(56) 1 (52) (53)

, Al, Ag, MoW, Al-Nd, Cr

1, 2

9 3
 9 가 (61) (61) 1 (62) ()가 ,
 1 (62) (46) , (6
 3) 1 (62) (64) (65)
 , (65) (64) (61) 1 2 (62) (66) (65) ,
 2 (66) 1 (62)
 (68)
 (65) (64)
 (44)
 , (64) (63) (asymmetric)
 가
 (61)

1, 2 (62,66)
 가 , (Teflon), BCB(benzocyclobutene), (cytop) PFCB(perfluorocyclobutane)

, (63) (64) (65) 1 (62)

10a 10f 3

10a , 가 (61) 1 (62)

1 (62)
 (Teflon), BCB(benzocyclobutene), (cytop) PFCB(perfluorocyclobutane) 가 ,

10b , 1 (62)

(63)

, MoW, MoTa (Al), MoNb (Cu), (W), (Moalloy) (Cr), CVD (Mo), (Ti) (Ta)

1 (62)

10c , (63) (61) .
 , 1 (62)
 , (63) .
 (64) .
 , 110~160 .
 10d , (64) (61) 1 (62)
) , (65) .
 (65) 1 (62) (64)
 , Al , Ag , MoW , Al-Nd , Cr
 10e , (65) (61) 2 (66) ,
 2 (66) 1 (62)
 (67) .
 , 2 (66) 1 (62) .
 10f , (67) (61) ,
 (66) (67) (68) .
 ITO(Indium - Tin - Oxide), IZO(Indium - Zinc - Oxide) ITZO(Indium - Tin - Zinc - Oxi
 de) CVD .
 11 4 .
 11 가 , (71) ()가 ,
 가 (71) 1 (72) .
 1 (72) (72a) .
 1 (72) (72a) 1 (72) (73)
 , (73) 1 (72) (73) (75) .
 (74) , (74) (71) 2 (75) .
 2 (75) (77)
 (74) (73) (73)
 (73) (72a) (asymmetric)
 , (73) 가 .
 1, 2 (72,75)
 , (Teflon), BCB(benzocyclobutene), (cytop) PFCB(perfluorocyclobutane)

가

12a 12f 4

12a , 가 (71) 1 (72) .

1 (72)
(Teflon), BCB(benzocyclobutene), (cytop) PFCB(perfluorocyclobutane) 가 ,12b , 1 (72) 1
(72) (72a) .

12c , (72a) (71) .

, 1 (72)

, (72a) .

(73) .

, 110~160 .

, (73) , (73) .

12d , (73) (71)

1 (72) , (73) (74) .

, Al , Ag , MoW , Al-Nd , Cr

12e , (74) (71) 2 (75) ,
(76) 2 (74) 1 (72)12f , (76) (71) ,
(74) (76) (77) .

de) CVD ITO(Indium - Tin - Oxide), IZO(Indium - Zinc - Oxide) ITZO(Indium - Tin - Zinc - Oxi

13a 13b .

a) 13a 13b , (43) (44) (52)
(53) ., (44,53) $\theta 1$ $\theta 2$ 가

가 .

, $\theta 1$ $\theta 2$ 가 가

, 가 , 가 , 가

가 .

가 .

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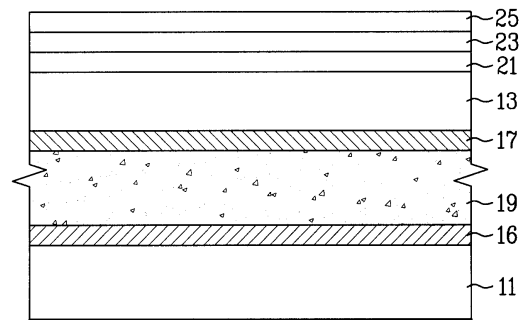
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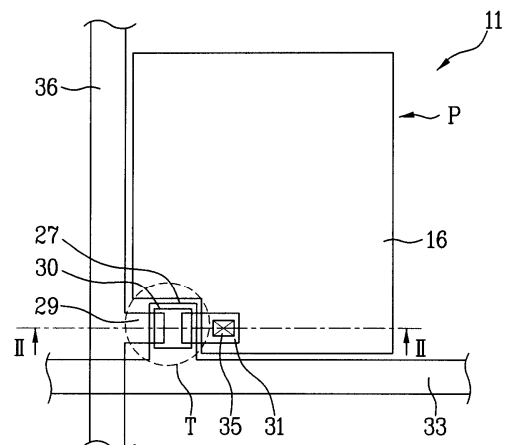
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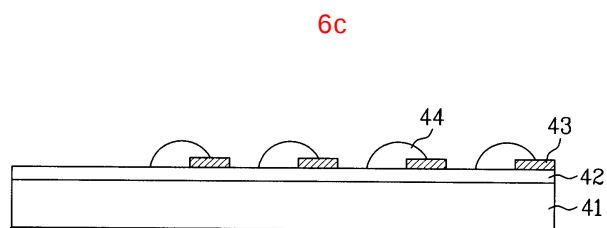
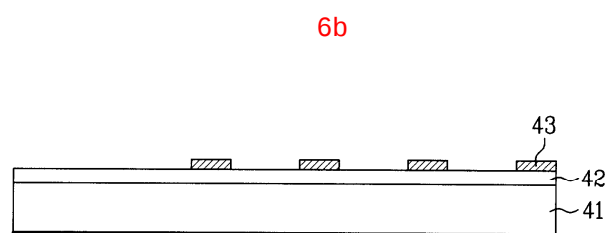
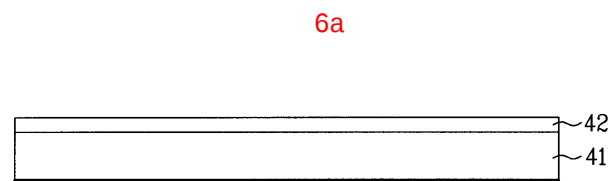
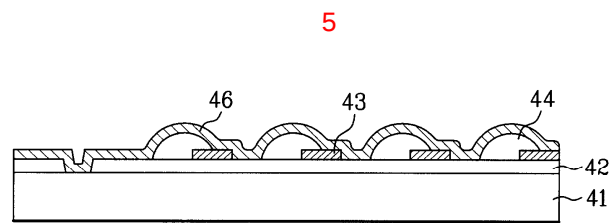
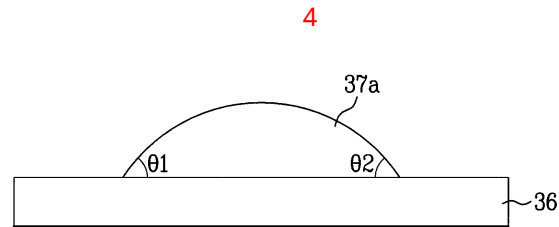
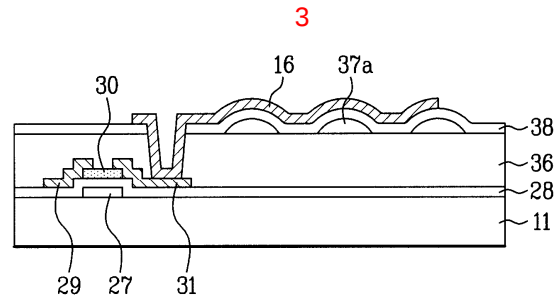
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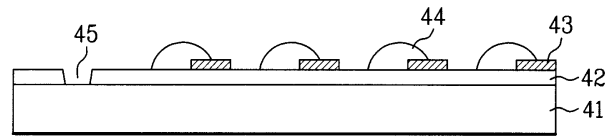


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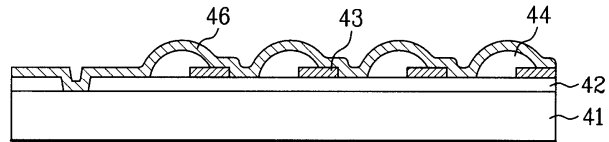




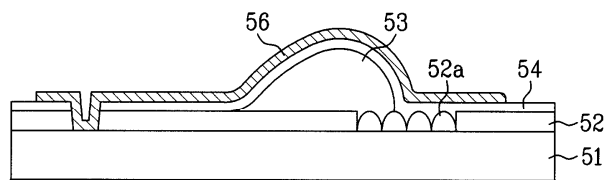
6d



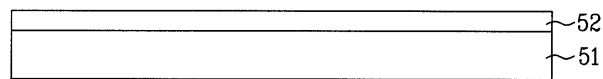
6e



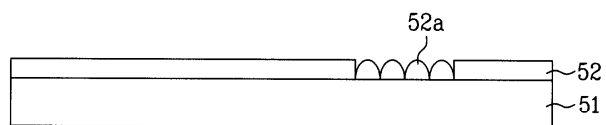
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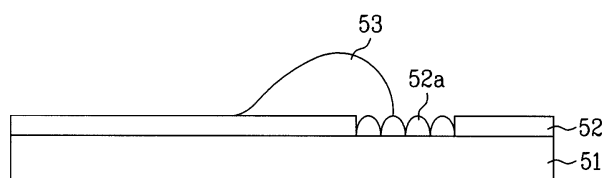
8a



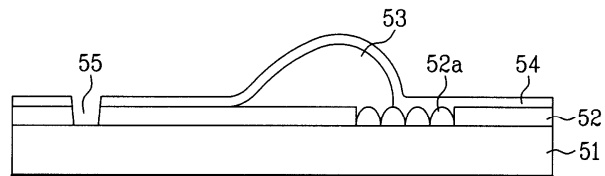
8b



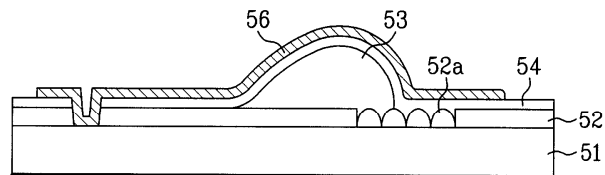
8c



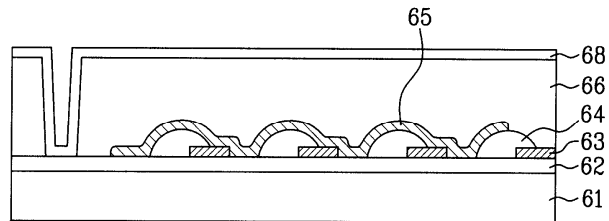
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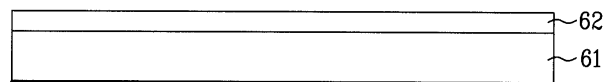
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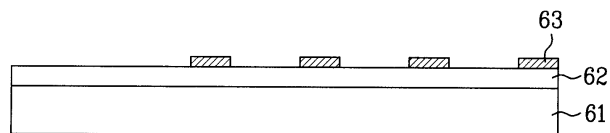
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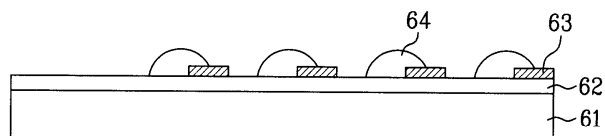
10a



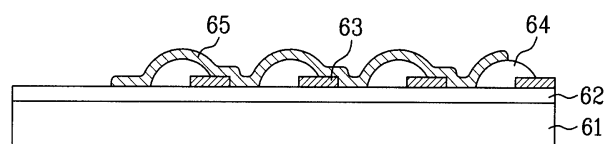
10b



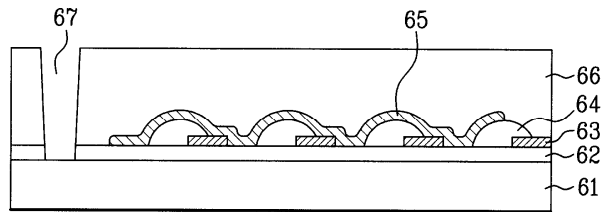
10c



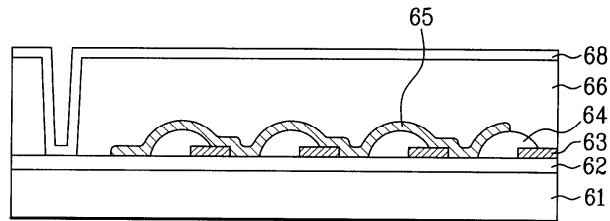
10d



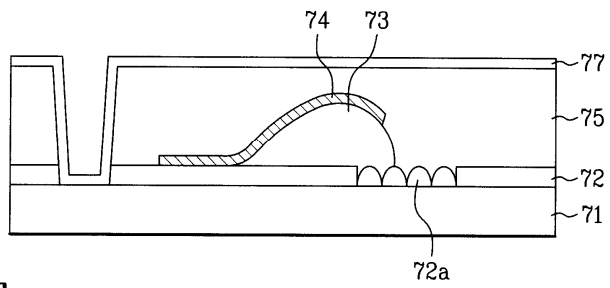
10e



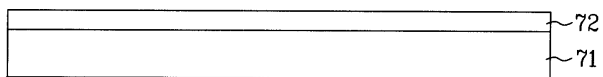
10f



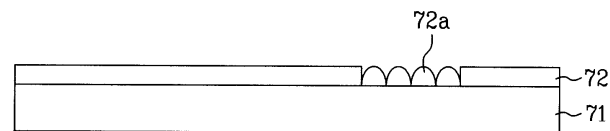
11



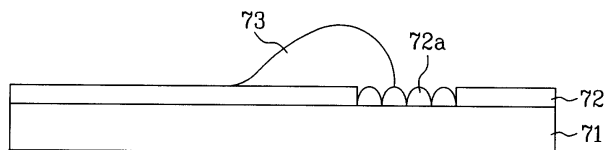
12a



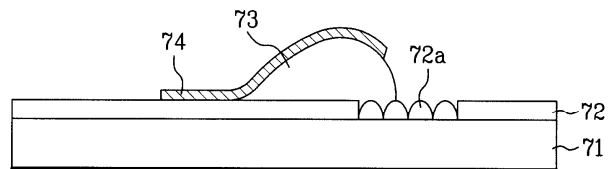
12b



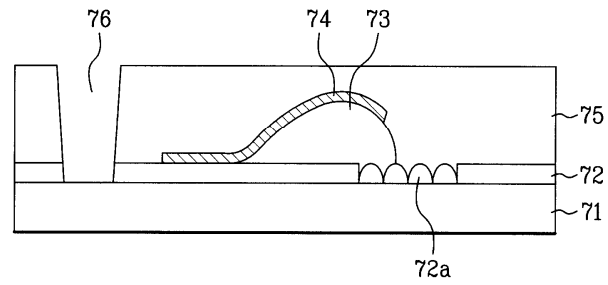
12c



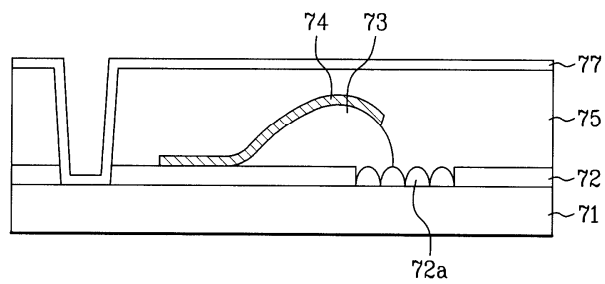
12d



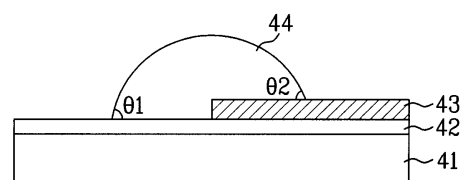
12e



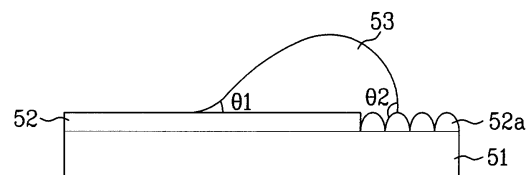
12f



13a



13b



专利名称(译)	液晶显示装置及其制造方法		
公开(公告)号	KR1020040102261A	公开(公告)日	2004-12-04
申请号	KR1020030033611	申请日	2003-05-27
[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	LIM JOOSOO 임주수 AHN BYUNGCHUL 안병철		
发明人	임주수 안병철		
IPC分类号	G02F1/1335		
代理人(译)	金勇 新昌		
其他公开文献	KR100965576B1		
外部链接	Espacenet		

摘要(译)

液晶显示装置及其制造方法技术领域本发明涉及通过不对称地形成压纹图案来使反射效率最大化的液晶显示装置及其制造方法。液晶显示装置包括形成在包括薄膜晶体管的绝缘基板的整个表面上的绝缘膜，并且反射电极电连接到薄膜晶体管的一部分并形成在包括压纹图案的绝缘膜上。五 指数方面 压花，凹凸，反射，透明，液晶显示，不对称

