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2001 09 21

(KR)

(71)

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20

(72)

562 - 6

401 - 3B 602

4

401 - 901

(74)

:

(54)

1

2

3 2

4

5

6

7

8

9

10

*

*

50 : 52 :

60 : 62 :

70 : 100 :

110 : 115 :

116 : 117 :

160 : 218 :

228 :

LCD(Liquid Crystal Display Device), PDP(Plasma Display Panel), ELD(Electroluminescent Display),
 VFD(Vacuum Fluorescent Display) 가 가 ,
 (LCD) 가 가 가 .

[illegible]

4

4

2

(5)

()

, ΔD_0

, ΔD_1

ΔD_3

, Δt

, ΔW_1 ΔW_3

()

가

(5)

가

(5)

가

가

가

(5) Δt

가

가

(5)

0

Δ

$W_1 < \Delta D_1$ ΔD_2 ΔD_3 0
가

(Size)

가

5

가

(1)

가

(5)

(5)(

)

(7)가

2

6

(7)가

(

9)

(5)

(9)

(9)

가

가

7, 9, 8, 10

1 2

1 (TFT, TFT) (Array)
(Gate Line)
(Data Line)

2 (CF)
(Black Matrix)

Arm) TFT TFT CF (Program) (Robot

7 (1S) TFT CF 가

(1S) (Gap) TFT CF (2S)
(Cell Gap) (Spacer) (4S) TFT
(Seal) (3S) TFT CF (5S)

TFT CF (TFT

(CF)

(10S)

TFT TFT CF (HF)
(target)

1.4mm TFT CF

가

8, (110), (110) (water sealant) (215)
 (110) (115), (110) (117), (117)
 가 () (N₂) (O₂) 가 (216), (110)
 (116) (218),
 (228) (110) (160)

, (228) (219), (222)
 (222) (116), DI (223) HF
 (224) DI (Deionized Water) HF가
 (225) 가, DI HF
 , (116)

, (110) () (100) (110) (118) 가
 (116)

(100) 가
 (160) 가

, (100) (SiOx),
 (160)가

, 가

, 가

$$T_t = T_i + (K_r \cdot N \cdot t_2) / m$$

(T_t : , T_i : , K_r : , N : , t₂ :)

, 1.4mm 0.3mm

, (117) (110) 가 가

, (100), TFT, CF
 , (Profile) 가
 가

, 9, (62)가 (50)

(50) (100) (Jig)가 (52), (62)가
 (60), (52) (60) (70)

(50) (100) .

(52) (100) /
(Cylinder ; 80) (100) (52) .

(80) (52) (60) (Gap)
(52) (100) (60) (62)가 .

(62)

(60) (Motor) 9 (52)
(60) (70) 가 (100) 360g/cm³
가 , (62) (100) (100)

10 ~ 15 (Cerium)

(100) 10~40 μ m가
(100) , 10 , TFT CF
(100) , (A') ()

(50) (62) 가

(100) (5

0)가 가

(100) (Sludge) 2

7 , 가 (6S)

(7S)
(8S)

CF , TFT CF , TFT

가 TFT CF
 , TN , (In plane switching), (Ferroelectric Liquid Crystal : FLC), OC
 B (Optically compensated Birefringence) 가
 ,
 가 , 가 가

가 .

가 가 .

(57)

1.

;

;

2.

1 ,

가

3.

2 ,

가

4.

3 ,

5.

2 ,

,

,

가

.

6.

1 ,

10~40 μ m

.

7.

5 ,

가

.

8.

1 ,

.

9.

8 ,

(HF)

.

10.

1 ,

.

11.

1 ,

.

12.

10

11

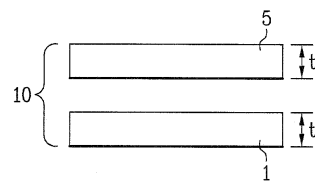
,

1

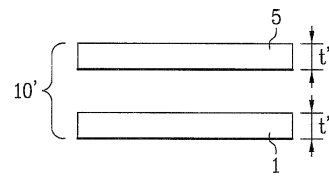
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2

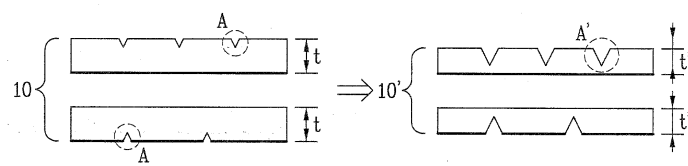
1



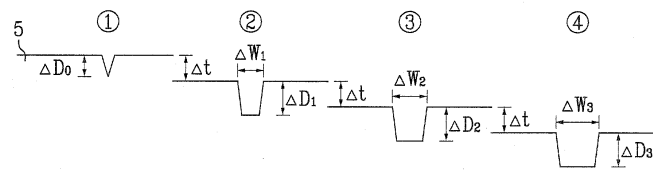
2



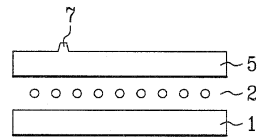
3



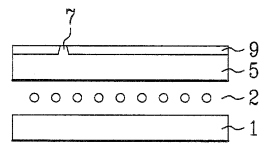
4



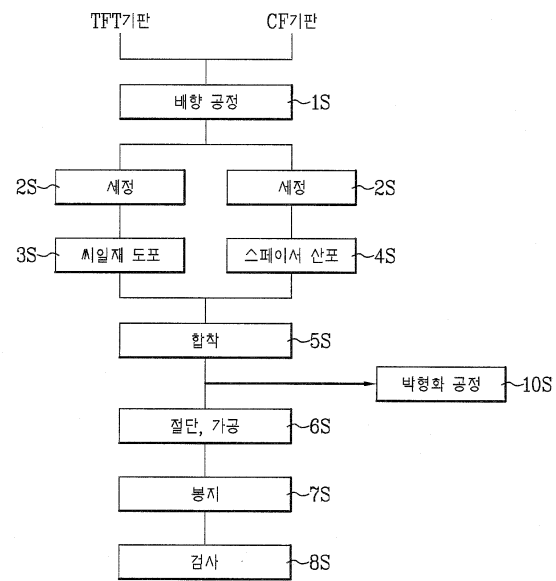
5



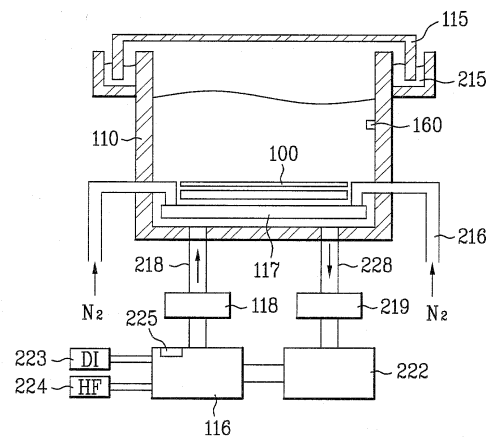
6



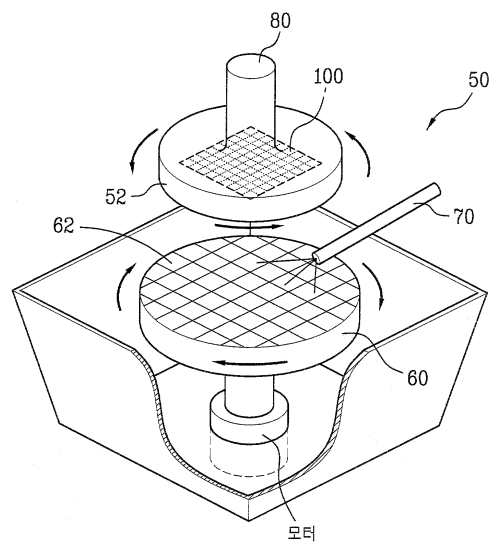
7



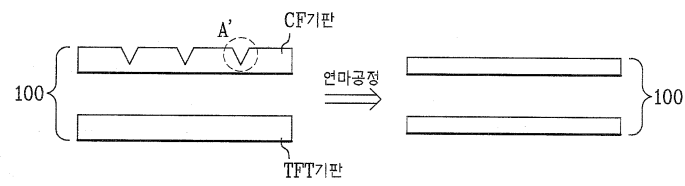
8



9



10



专利名称(译)	一种薄液晶显示元件的制造方法		
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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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发明人	김병철 조규수 박성근		
IPC分类号	G02F1/13		
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外部链接	Espacenet		

摘要(译)

液晶显示装置的制造方法本发明涉及一种液晶显示装置的制造方法，该液晶显示装置具有薄且平坦的玻璃基板表面，包括以下步骤：提供液晶板；蚀刻液晶面板的至少一个表面；并且对蚀刻的液晶面板的表面进行抛光和平面化。9 指数方面 薄型，蚀刻，抛光装置

