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(12)

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(72)		105-1302	
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(74)			
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(54)			

1 1 1 , 2 2 2 , , 1 2 .

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1 .
2 3 .
4 .

5 6 .
7 .
* *

100 : (Loader) 110 : 3
110a : TFT 120 : 4
120a : 130 :

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

(Cathode Ray Tube) 가 가 ,

LCD

(Long Range Order) 가 가 ,
가 가 ,

LCD (Array) , (Color Filter) , (Cell) (Module)

(Deposition) (Photolithography), (Etching) 1
(Thin Film Transistor; TFT) ,
2 (Black Matrix) ,
(Red), (Green), (Blue) , ITO(Indium Tin Oxide)

1, 2 1 LCD 2 ,

가 1 (Cassette;) 2 (Loader;) (Port) . 1 (Gate Line) 1 (Data Line) (Matrix) . (Black Matrix) . (Robot Arm) 1 1 2 2 (Program) (R 1 1 2 (1S) 1 2 가 (1S) . (1S) (Gap) 1 2 (2S) 1 (Cell Gap) (Seal) (4S) 1 (Spacer) 2 (3S) , 2 가 (5S) . 1 2 가 (6S). 가 (7S). (8S) (Chamber) . TFT . TFT (Unloader) 1 2 , 2 , 1 (7) . TFT 1, 2 (3)(4) (1) , 5 (Loader) (2) TFT , 3 (6) 가 , ,

(Cutting)

1 1 1 2 2

2

1 1 1 2 1 2

2 2 1 2

4

5 6

7

2 (' ')

1 2 1 ('TFT ')

TFT 1 2 (Loader)

(Matrix)

(Black Matrix)

(Scribe)/ (Break)

TFT

(Loader)

1, 2

TFT 1, 2 (1

TFT 1 2

), (23S) 4 (24S) , (20S) , (21S), (22S

, TFT (particle) (20S)

nilox Roll) (21S) (Dispenser) 2 (Doctor Roll) (A

TFT

, TFT (Baking) (22S)

(23S) (24S)

, TFT (Unloader) 3, 4

3, 4 (GAP) (Loader)

, 3 (Port) 5 (110) , (120a) , 4 (120)가 TFT (110a)

(100) (130)가

1 (130)가 , TFT

2

3 (110) 4 (120) , (130)

(110b)

, 3 (110) 4 (120)가 (100) , TFT (110a) (120a)

(130) (Program)

(

7 (Dispensing) , TFT (Ag) (25S) , TFT (LC

(Dispensing) (Seal)

가 , (Ag) 가 (27S)(28S)

TFT (29S)

(29S)

TFT

TFT

TFT (30S).

TFT
2

TFT
TFT

2 TFT

TFT

가

TFT

; (110b)

3 (110) 6 4 (120)

(110b) 6 () 3 (110) 4 (120) (110b)
(130)

(110b) TFT TFT

1, 2

(130) (110b) 가 (Vacant)

3, 4 (Handling)

(Holding) (Line)

(Scribe) 가 (Pen) (Break) (Grinding)

A/P(Auto/Probe)

CCD (Pin Hole),

IC

가

가

가

가 .

가
(Vacant) 가
(Holding) (Line)
(Handling)

(57)

1.

1 1 2 2
1 2

2.

1
1 2

3.

1
(Gap)

4.

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5.

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1 2

8.

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1 1 ,

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10.

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1 1 2 2 ,

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1 2

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11.

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11 ,

, (Gap)

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26.

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2

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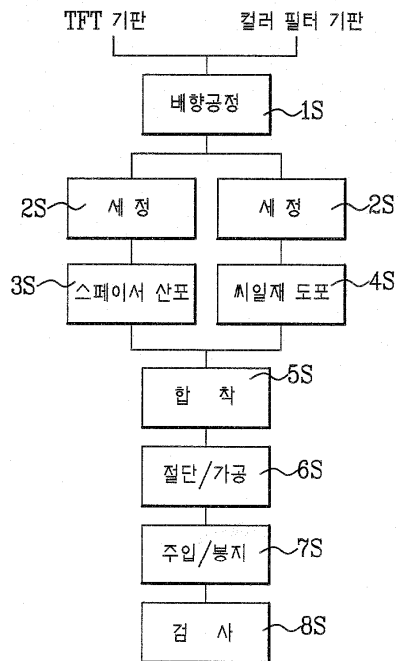
28.

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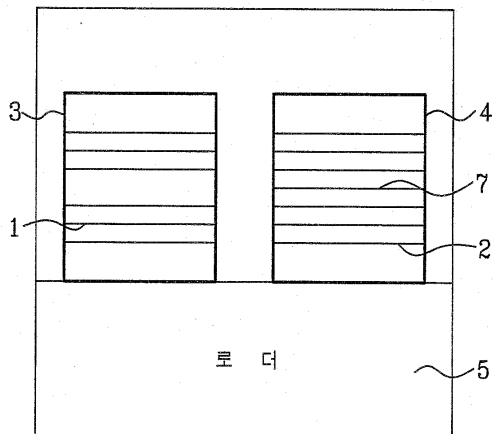
1

2

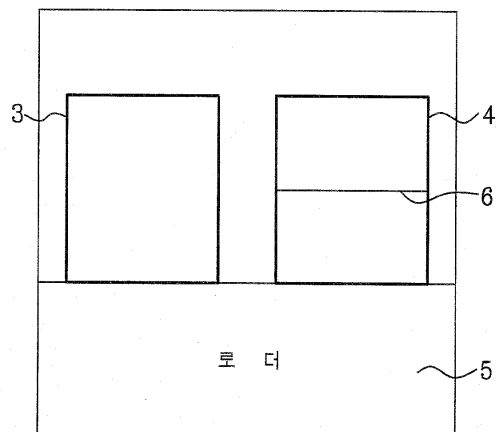
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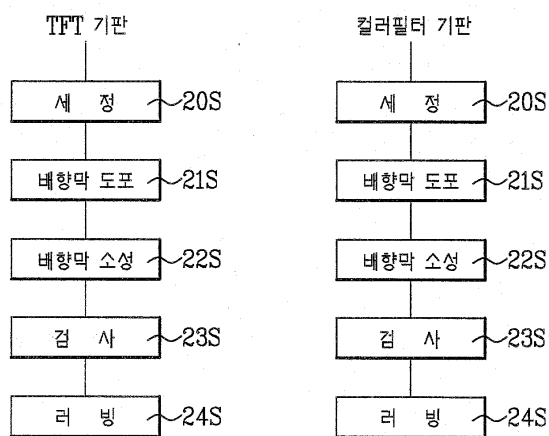
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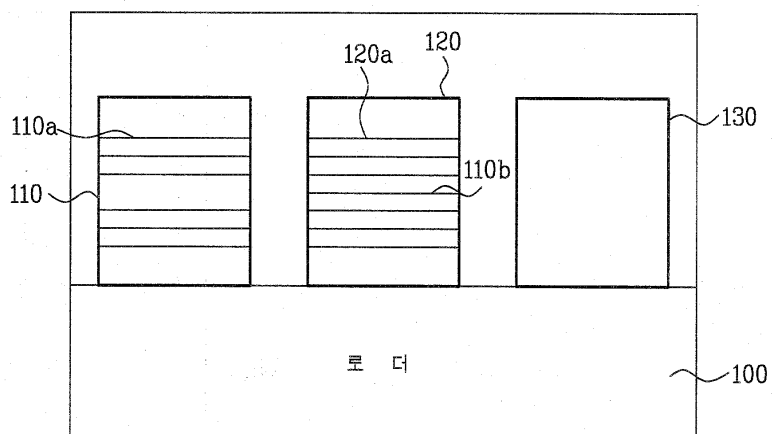
3



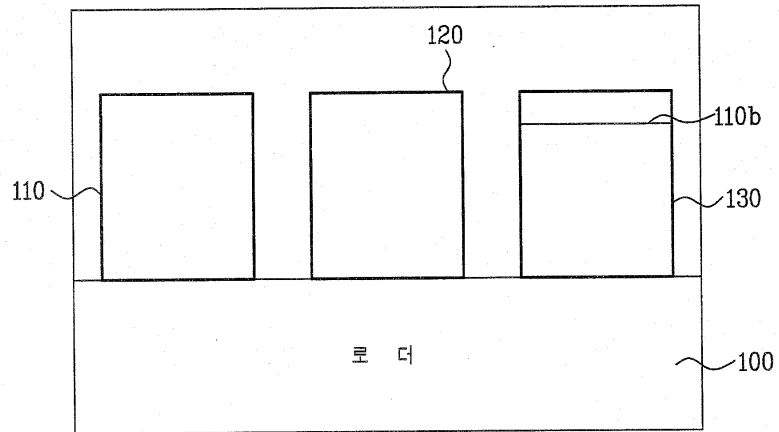
4



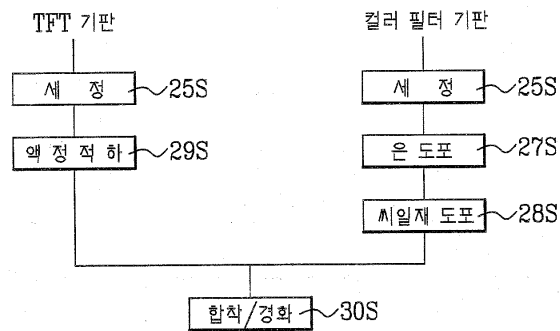
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专利名称(译)	液晶显示装置的生产线及使用其的制造方法		
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摘要(译)

本发明涉及液晶显示器的生产线及其制造方法，该生产线及其制造方法能够有效地处理盒的操作和残留基板的处理。并且包括装载器和卸载器的液晶显示器的制造线包括机器人臂，该机器人臂被编程以确定在确定处理插入时装载的基板是否在第一盒中，多个第一基板是装载在装载器和第二盒上，其中装载有多个第二基板和用于缓冲的盒，布置在装载器和第一基板以及第二基板和用于缓冲的盒上，并且进行处理。装载机，盒式磁带，缓冲盒，机器人臂，生产线。

