

(19) (KR)
(12) (A)

(51) 。 Int. Cl. 7 G02F 1/13	(11) (43)	2003-0037818 2003 05 16
(21) 10-2001-0068893		
(22) 2001 11 06		
(71)	20	
(72)	161	
(74)		
:		
(54)		

가

4

1

2 1

3a 3c 1 3

4

5 4

6a 6e 4 8 .

T/C : L1, L2 :

H : S1, S2, S3 :

11 : 12 :

12a : 12b :

13 : 14 :

15 : 16 :

17 : 18a :

18b :

, (sputter)

•

(sputter)

,

$$1 \quad (L1)(L2) \quad , \quad (L1)(L2) \quad \text{가} \quad \text{(loading)} \quad \text{(unloading)} \quad \text{가} \\ (S1)(S2)(S3) \quad , \quad (H), \quad (T/C)$$

(L1)(L2) (load lock chamber) (loading)
(L1) (High vacuum ;10⁻⁵ Torr)
(ultra high vacuum ;10⁻⁷ Torr)
(unloading) (L2)

(H) (S1)(S2)(S3) (pre-heat)
(heater chamber) .

(S1)(S2)(S3) (deposition chamber)
(sputtering chamber) Al, Mo, Cr

(Target) , 가 .

(T/C) (transfer chamber) (1) ((robot arm) (robot) (H) (S2 S1)) (S3) (2) (H) (S1)(S2)(S3) (L1)(L2),

1)(L2) (H) (H) (S1)(S2)(S3) (T/C) (T/C) (H) (L

2)(S3) (T/C) 5.0×10^{-7} Torr (S1)(S (Ar) 3 Torr (T/C) (cryo pump) (S1)(S2)(S3) (L1)(L2) (T/C) (T/C) (sensor)가 (T/C) 가

2 1 ' .

2 , 가 (1 T/C) (3) ((1) , (4) (3) (2)가 (2) 가 . , (4) (3)

3a 3c 1 3 .

3a 3a ,

3a 3b 가

3a 3c 가

3b 3c 가

3b, 3c (system)

가 . ,

[illegible]

(17) (12b) (12a) CCD(Charge Coupled Device) (17) (14) (laser sensor)
 (14) 가 .
 .
 6a 6e 4 8 .
 , 6a , (5 13) (5 14) (18a)
 (18b) , . ,
 , 6b 6e , (13) , 가
 .
 , 6c (13) 6b , 6d (13) (13) 6c
 , 6e (13) 6b 6e .
 6d , (14) 7 .
 ,
 7 .
 7 (L1) (4 14) (Position Sensor Controller)
 (Robot Controller) (Glass)(14) (Position Sensor Controller) (Position Sensor Controller)
 (Robot Driver) (Robot)
 , (Position Sensor) (T/C) (H) (S3)
 , (Position Sensor Controller) (14)
 , (T/C)
 , (Vacuum Robot) (L1) (H)
 (H) (12) (12) , (S1) .
 , (S1)(S2) (S3) (S3) (12)
 가 , (S3) (S3)
 . , 가 가 (Alarm) .

가 .

가

가

(57)

1. (loading) (unloading)

가

가

2.

1 ,
.

3.

1 ,

4.

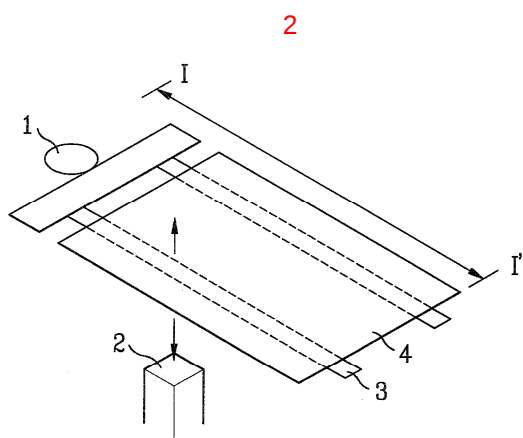
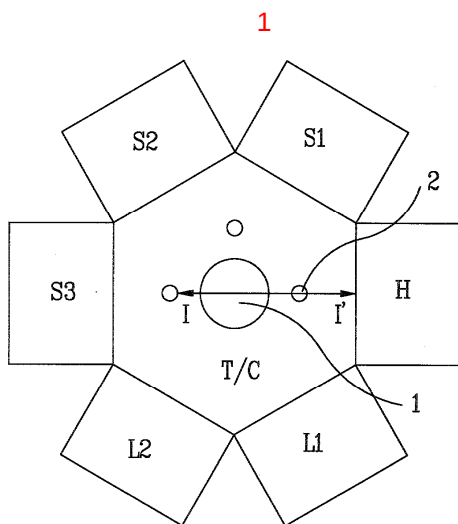
1 ,

5.

1 ,

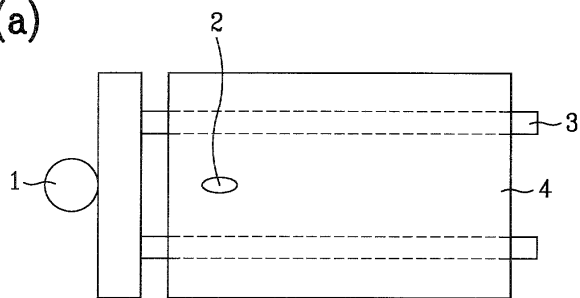
6.

5 ,

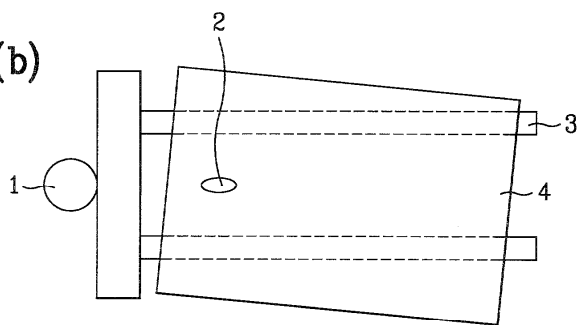


3

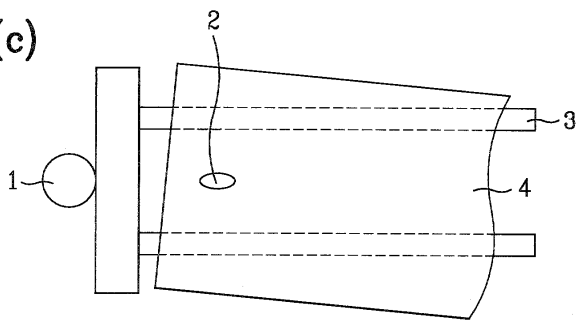
(a)



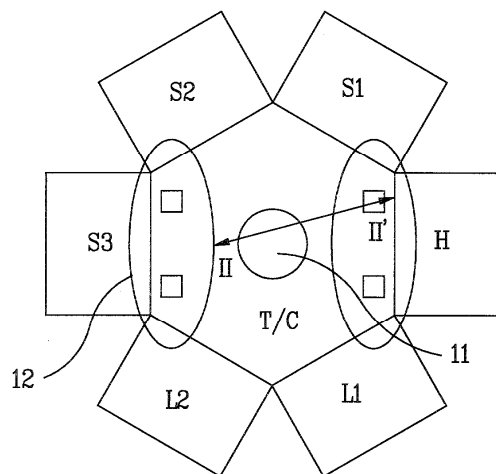
(b)



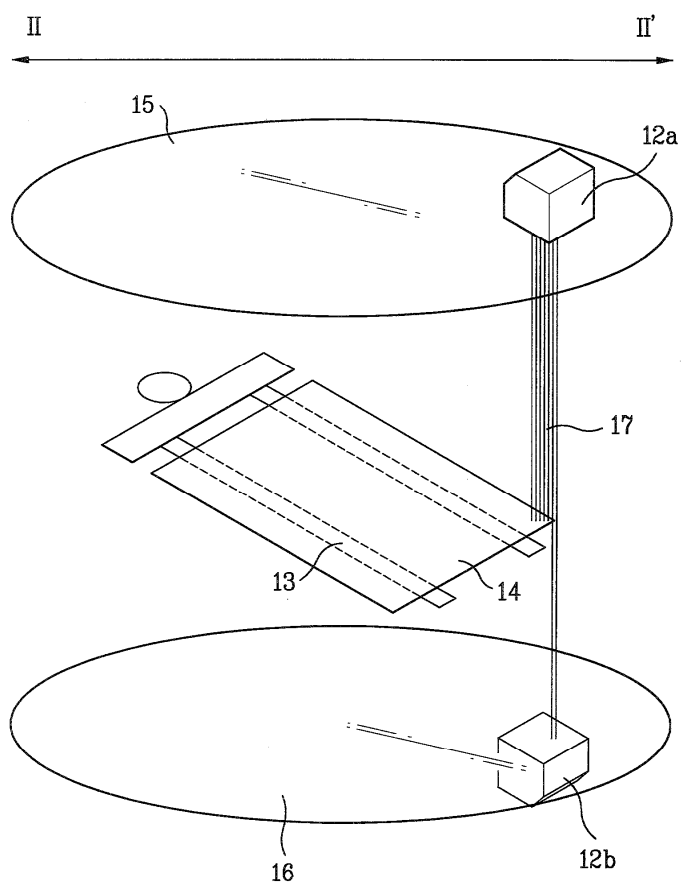
(c)



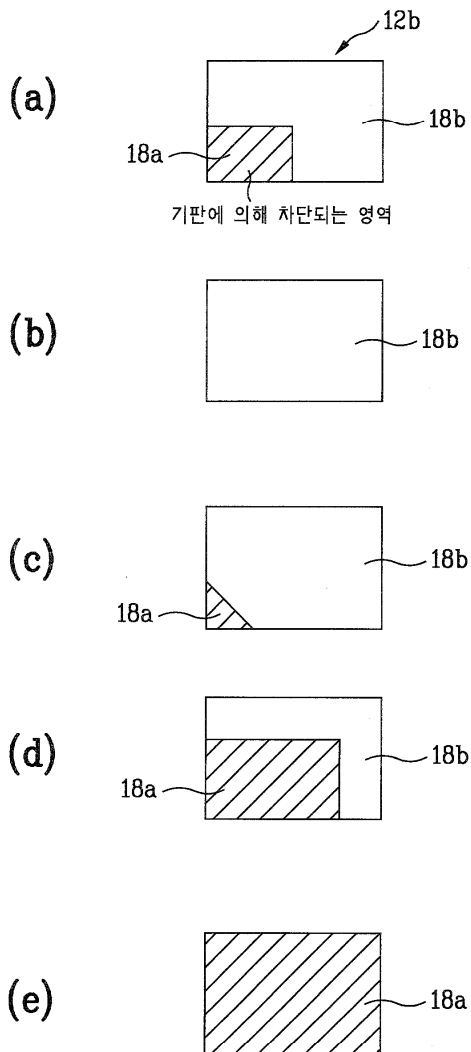
4



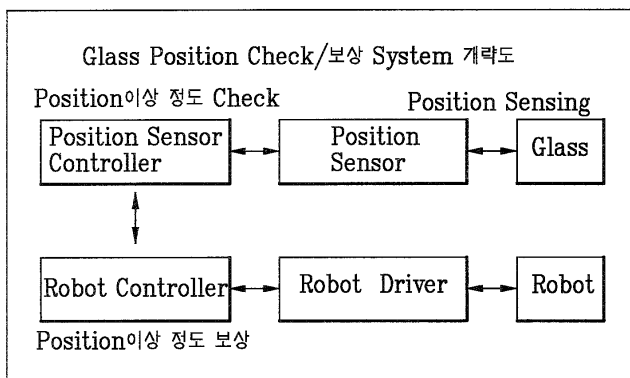
5



6



7



专利名称(译)	用于制造液晶显示器件的溅射器		
公开(公告)号	KR1020030037818A	公开(公告)日	2003-05-16
申请号	KR1020010068893	申请日	2001-11-06
[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	HYUN JONG HO		
发明人	HYUN, JONG, HO		
IPC分类号	G02F1/13		
其他公开文献	KR100487427B1		
外部链接	Espacenet		

摘要(译)

用途：提供一种用于制造液晶显示装置的溅射，以确认转印部分中基板位置的断裂和异常，从而安全地保护基板并提高工艺的生产率。组成：多个负载锁定室（L1，L2）装载和卸载基板。加热室（H）在处理之前预先加热基板。多个溅射室（S1，S2，S3）在基板上沉积金属。传送室（T/C）包括一对位置传感器（12），以分别识别加热器室和溅射室前面的基板的相邻边缘。

