

FIG. 1

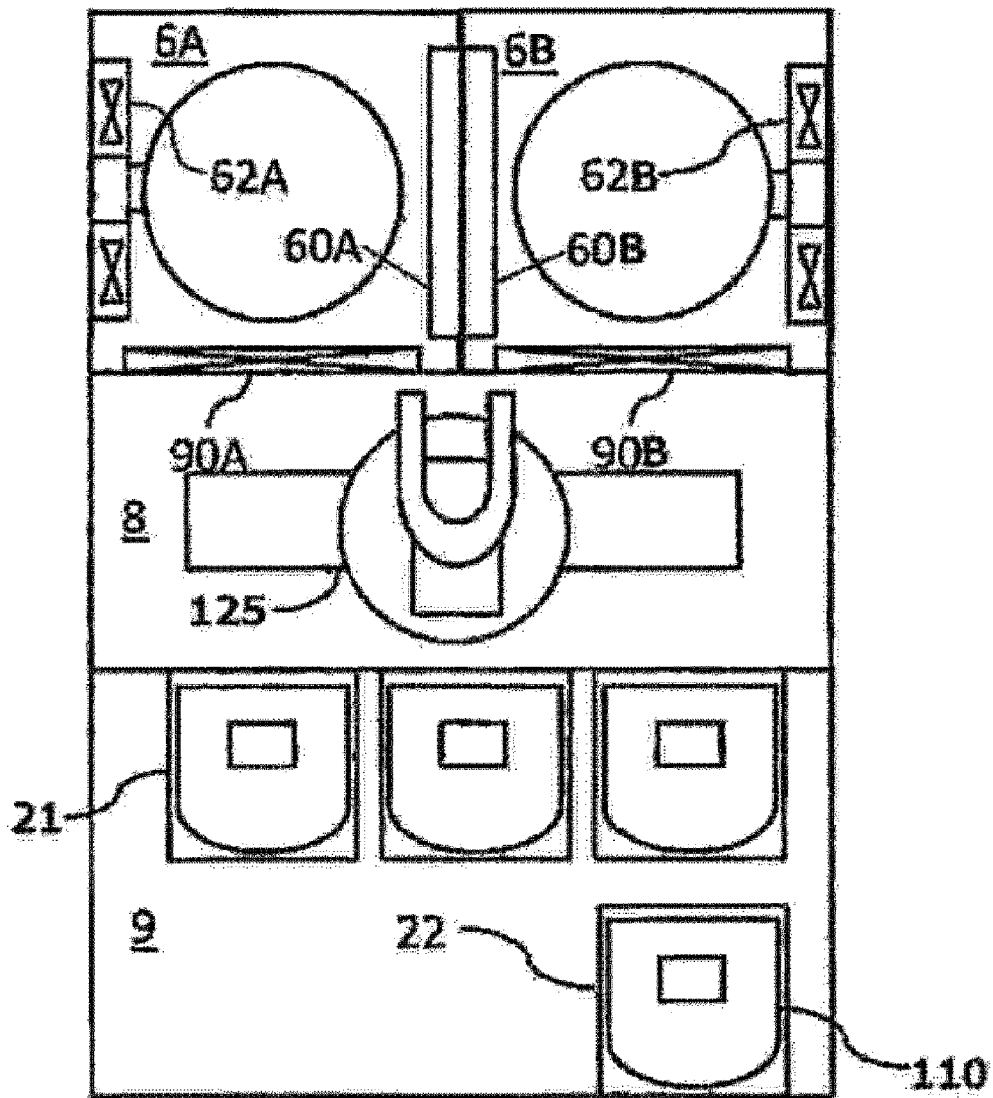


FIG. 2

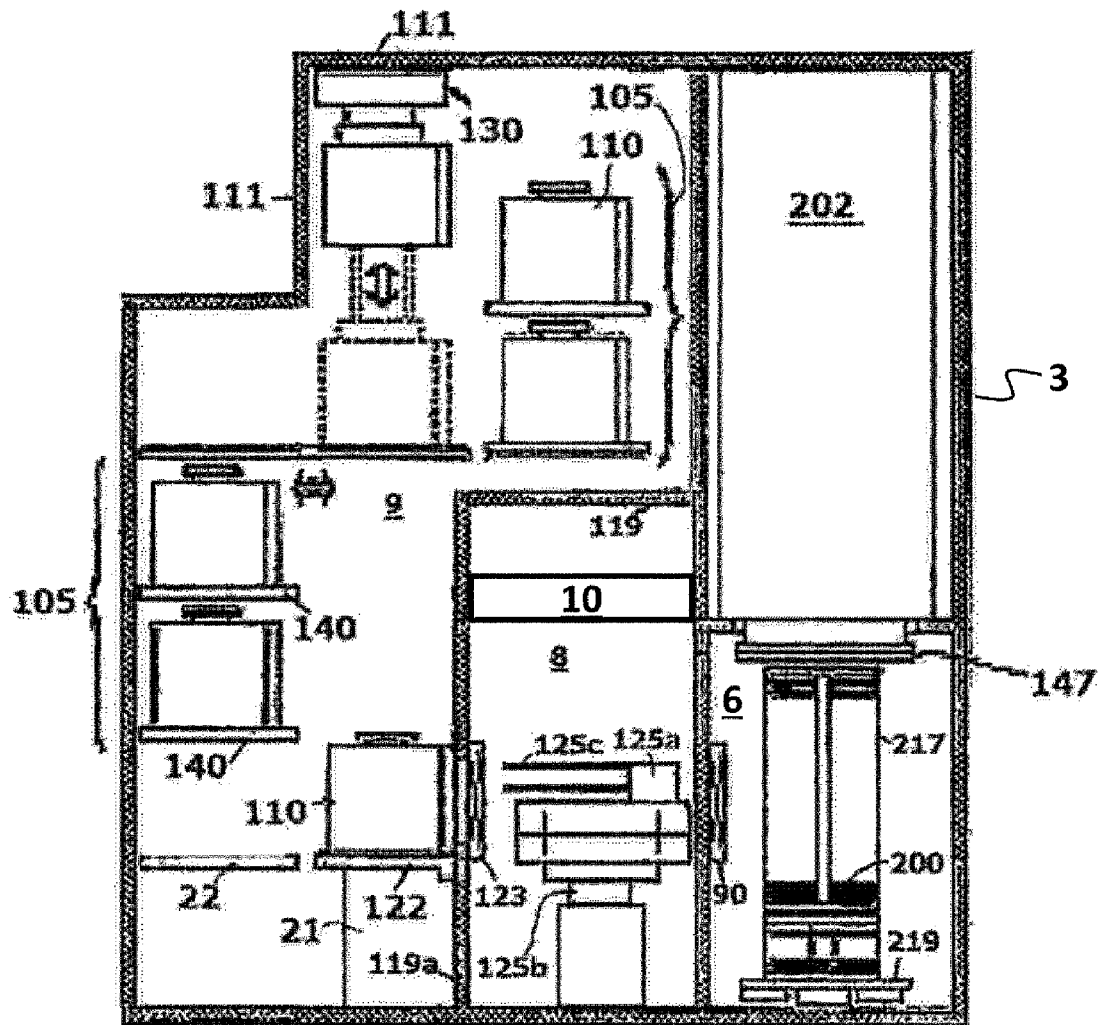


FIG. 3

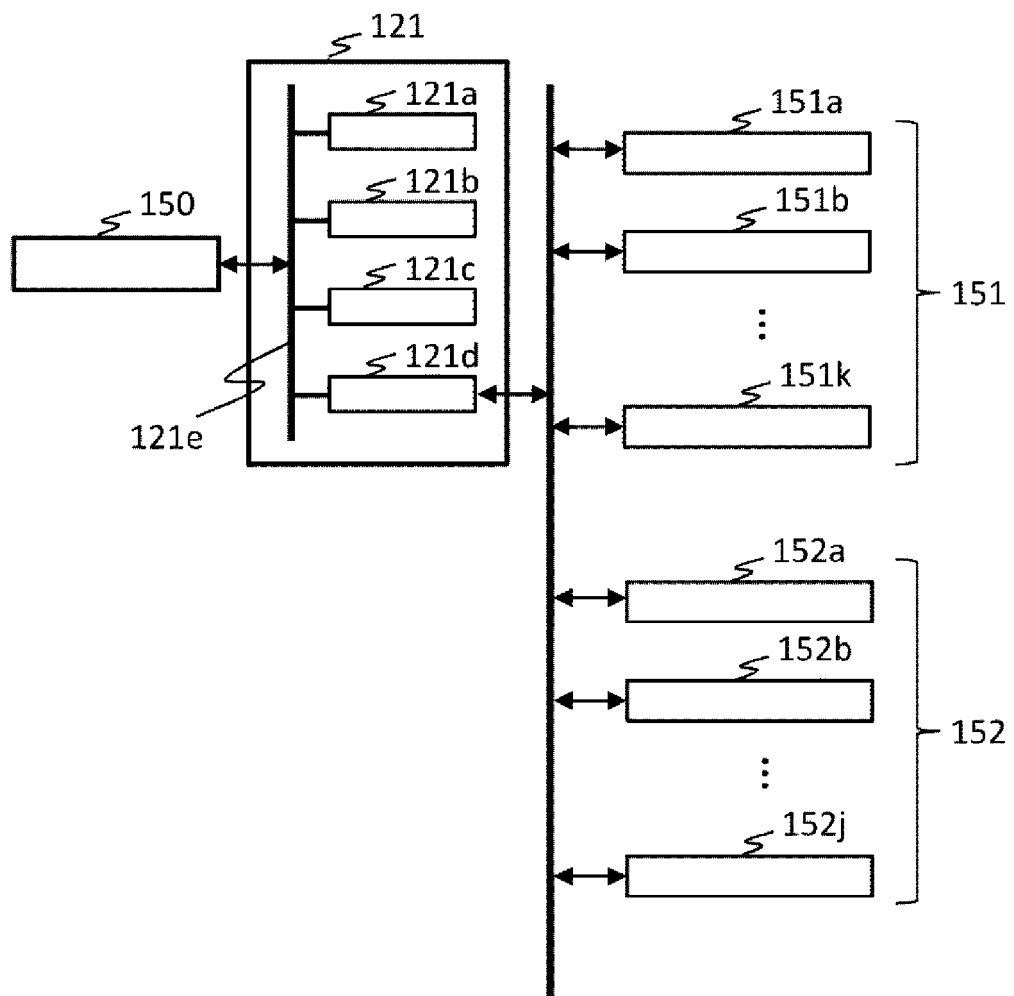


FIG. 4

[HOME1]

[HOME2]

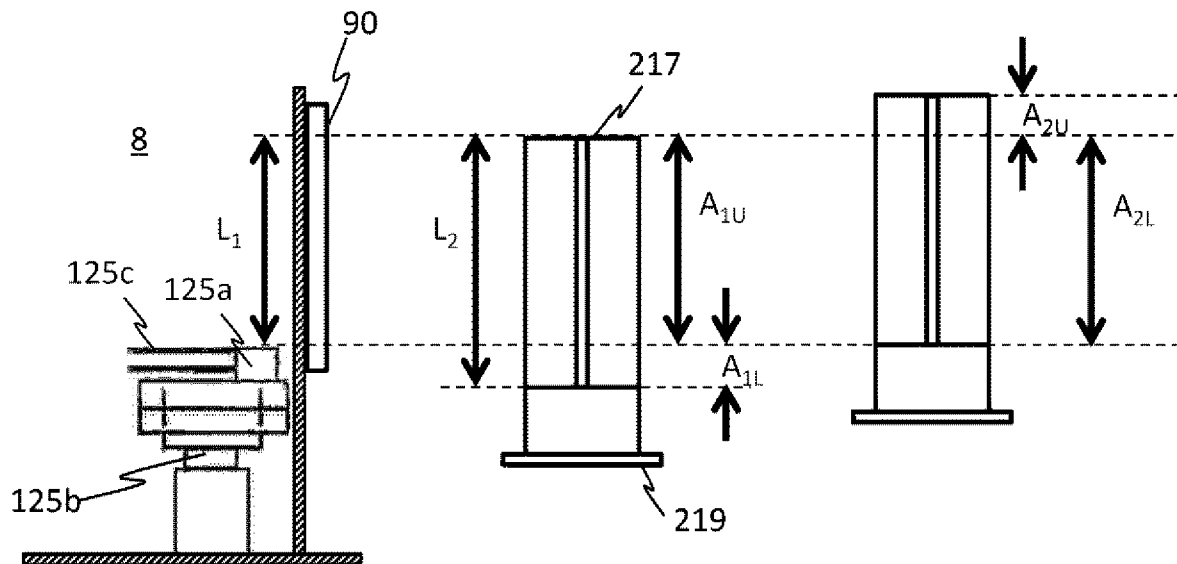


FIG. 5

Boat slot No.	Transfer area for each position	
53	First position HOME1 transfer area A_1	Second position HOME2 transfer prohibition area
52		
51		
50		
49		
48		
47		
46		
45		
44		
43		
42		
41~16	First position HOME1 transfer prohibition area	Second position HOME2 transfer area A_2
15		
14		
13		
12		
11		
10		
9		
8		
7		
6		
5		
4		
3		
2		
1		

A_{12}

FIG. 6

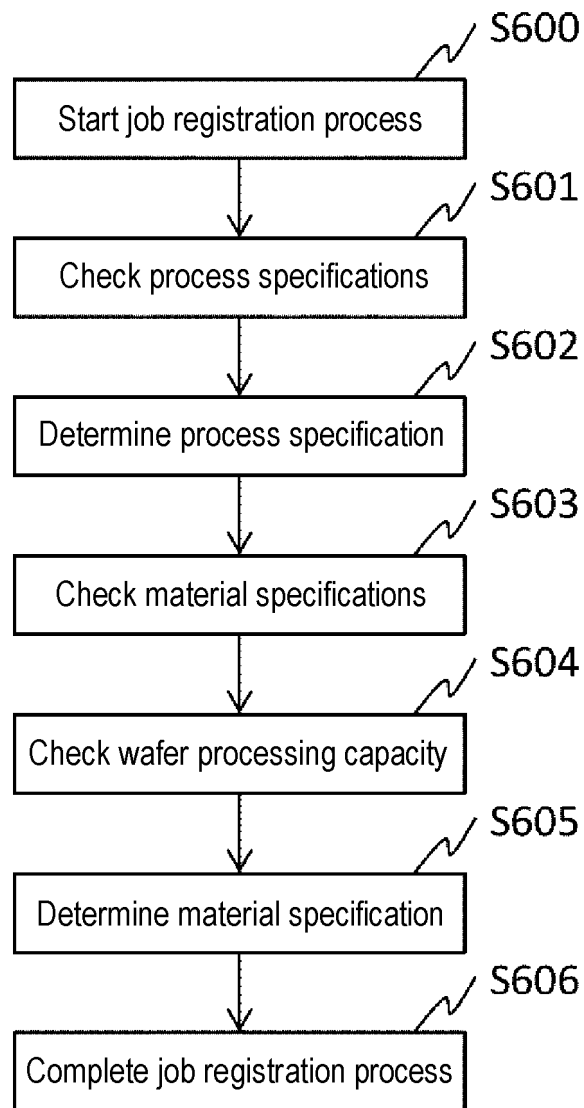


FIG. 7

BS No.	Carrier	CS No.	Transfer order
53	Dummy #1	01	1
52	Monitor #1	01	51
51	Fill Dummy #1	01	3
⋮	⋮	⋮	⋮
44	Fill Dummy #1	08	10
43	Product #1	01	18
⋮	⋮	⋮	⋮
28	Product #1	16	33
27	Monitor #1	02	52
26	Product #1	17	34
⋮	⋮	⋮	⋮
18	Product #1	25	42
17	Product #2	01	43
⋮	⋮	⋮	⋮
10	Product #2	08	50
9	Fill Dummy #1	09	11
⋮	⋮	⋮	⋮
3	Fill Dummy #1	15	17
2	Monitor #1	03	53
1	Dummy #1	02	2

FIG. 8

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No.	H1	H2	Type of wafer
53			Dummy
52			Monitor
51			Fill Dummy
50			Fill Dummy
49			Fill Dummy
48			Fill Dummy
47			Fill Dummy
46			Fill Dummy
45			Fill Dummy
44			Fill Dummy
43			Product1
42			Product1
41			Product1
40			Product1
39			Product1
38			Product1
37			Product1
36			Product1
35			Product1
34			Product1
33			Product1
32			Product1
31			Product1
30			Product1
29			Product1
28			Product1
27			Monitor
26			Product1
25			Product1
24			Product1
23			Product1
22			Product1
21			Product1
20			Product1
19			Product1
18			Product1
17			Product2
16			Product2
15			Product2
14			Product2
13			Product2
12			Product2
11			Product2
10			Product2
9			Fill Dummy
8			Fill Dummy
7			Fill Dummy
6			Fill Dummy
5			Fill Dummy
4			Fill Dummy
3			Fill Dummy
2			Monitor
1			Dummy



[Wafer loading]

802

Transfer order :

Dummy⇒Fill Dummy⇒Product⇒Monitor

Type of wafer	The number of operations	Transfer order
Dummy	1	53⇒1
Fill Dummy	2	⇒51~44⇒9~3
Product1	0	43~28, 26~18
Product2	0	17~10
Monitor	2	⇒52, 27⇒2
Total operation	5	

[Wafer unloading]

803

Transfer order :

Monitor⇒Product⇒Fill Dummy⇒Dummy

Type of wafer	The number of operations	Transfer order
Monitor	2	⇒2⇒27, 52
Product2	1	⇒10~17
Product1	0	18~26, 28~43
Fill Dummy	1	3~9⇒44~51
Dummy	2	⇒1⇒53
Total operation	6	

 : Transferrable
  : Non-transferrable

FIG. 9

901

No.	H1	H2	Type of wafer
53			Dummy
52			Monitor
51			Fill Dummy
50			Fill Dummy
49			Fill Dummy
48			Fill Dummy
47			Fill Dummy
46			Fill Dummy
45			Fill Dummy
44			Fill Dummy
43			Product1
42			Product1
41			Product1
40			Product1
39			Product1
38			Product1
37			Product1
36			Product1
35			Product1
34			Product1
33			Product1
32			Product1
31			Product1
30			Product1
29			Product1
28			Product1
27			Monitor
26			Product1
25			Product1
24			Product1
23			Product1
22			Product1
21			Product1
20			Product1
19			Product1
18			Product1
17			Product2
16			Product2
15			Product2
14			Product2
13			Product2
12			Product2
11			Product2
10			Product2
9			Fill Dummy
8			Fill Dummy
7			Fill Dummy
6			Fill Dummy
5			Fill Dummy
4			Fill Dummy
3			Fill Dummy
2			Monitor
1			Dummy

■ : Transferrable □ : Non-transferrable



[Wafer loading]

Transfer order :

Dummy⇒Fill Dummy⇒Product⇒Monitor

Type of wafer	The number of operations	Transfer order
Dummy	1	53⇒1
Fill Dummy	2	⇒51~44⇒9~3
Product1	1	⇒43~28, 26~18
Product2	1	17~11⇒10
Monitor	2	⇒52, 27⇒2
Total operation	7	

[Wafer unloading]

Transfer order :

Monitor⇒Product⇒Fill Dummy⇒Dummy

Type of wafer	The number of operations	Transfer order
Monitor	2	⇒2⇒27, 52
Product2	2	⇒10⇒11~17
Product1	0	18~26, 28~43
Fill Dummy	2	⇒3~9⇒44~51
Dummy	2	⇒1⇒53
Total operation	8	

FIG. 10

