

(19)
(12)(KR)
(Y1)(51) 。 Int. Cl.⁷
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(11)
(24)2005 02 07
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2005 01 28(21) 20-2004-0033746 ()
(22) 2004 11 29
(62) 10-2004-0035584
: 2004 05 19

2004 05 19

(73)

7 7 1007

5 35 41 3 102

(72)

7 7 1007

5 35 41 3 102

(74)

:

(54)

(Carrier) , SMT

(Package)

(11) 가 , (1) (11) ,
 (13) (10); (12), (2)
 (1) (20); (1) 가 (29) X,Y, θ
 (40); (30); (20) (21)
 (40) (10) (30) (2)
 (50);가

1

, , , , ,

1

2

3

4

5

< >

1 : 2 : (boat)

10: 11:

12 : 13 :

20 : 21 :

22 : 0 23 : 0

24 : Y 25 : Y

26 : X 27 : Y

30 : 40 :

50 :

(semiconductor package)

(boat)

가

,

가

가

가 ,

(semiconductor chip)

(boat)

3가

(jig)

+

가

(clipping)

가 ,

가

(Vision)

X-Y

가

가

X,Y, θ

X-Y

가 ,

가

가

X,Y, θ

;가

1

3

4

2

5

, (1) 1, (2) (10), (2) (1) (20), (1) (30), (40), (40) (10) (50) .

(10) (11), (11) (13) (1) (12), .

, (20) 2 3 (1) θ (22) θ (23), Y (24) Y (25) X X (26) X (27)가 .

(21) (1)가 (21a), (22,24,26) () (21b) (23,25,27) , 가 가 .

, (2;Substrate) (1) , 가 (2) (boat magazine) .

, (2) (Loader) (2) () (20) .

가 (2) (20) (29) (1) () (2) 5 Z (1)가 (2) .

가 (21) (21a) (1) (holding) .

(1) (10) (11)가 (13) (50) , (50) X,Y, θ (1) .

(30) (40) (23,25,27) (20) 가 .

, (30) (20) (23,25,27) 가 +/- (22,24,26) (0.1 μ m) X,Y, θ (22, 24,26) (23,25,27) 가 가 (22, (1) , () ,

, (1) (1) (2) , (20) (2)
 Z , (1) (2) , (20) (2)
 , (2) (Unl
 oader) (Magazine) , 가
 , , Pitch
 , 가
 , SMT (Package) (Carrier)
 , 가 FCBGA(Flip
 Chip Ball Grid Array)

(57)

1.

(2) (1)가
 (2) :
 , (1) (11) , (11)
 가 (12), (13)
 (10);
 (2) (1)
 가 (29) (20);
 (1) (20) (21) X,Y, θ
 (30);
 (30) (40);
 (10) (2)
 (40) (50);가

2.

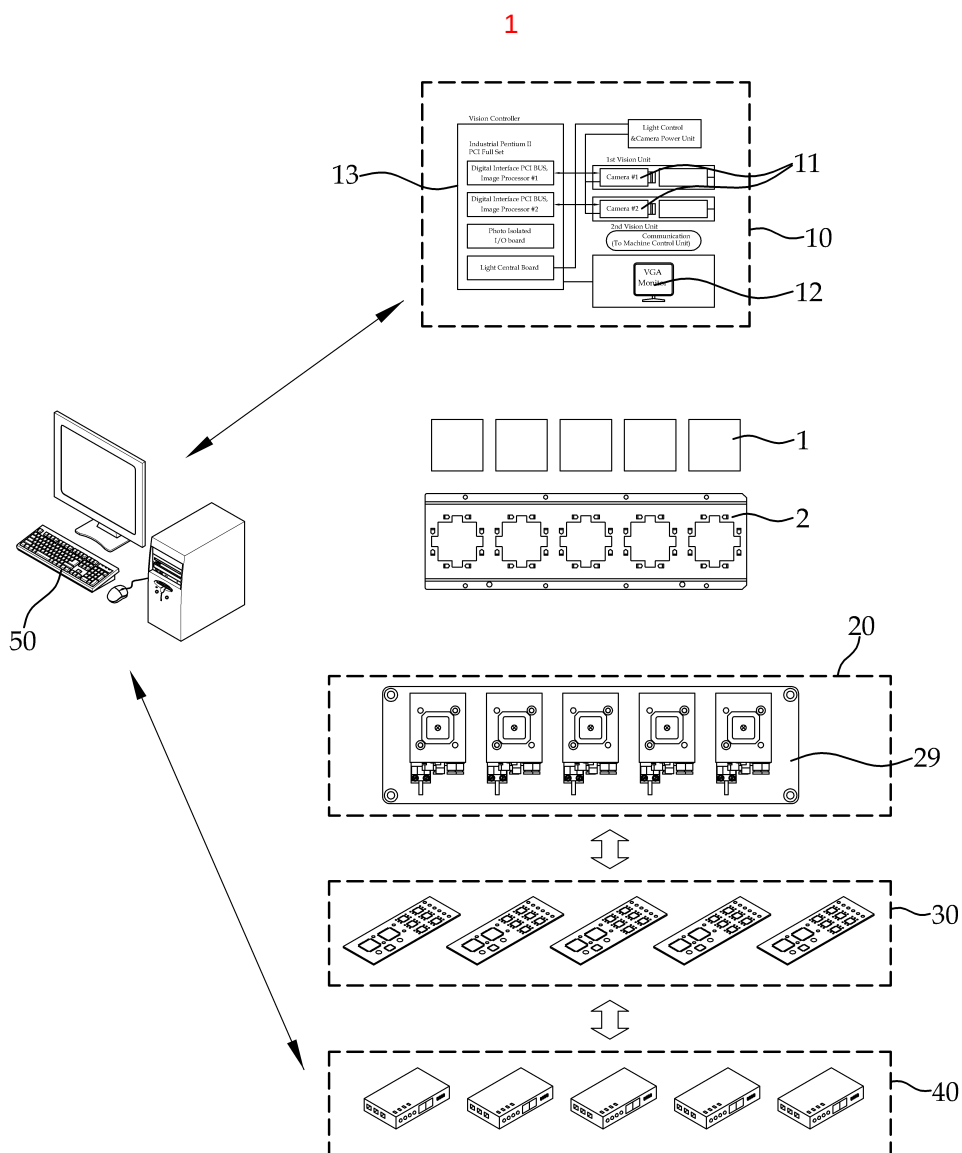
1

, (20) , (1) (21a)가
 (21) ;
 (21) (1) θ θ (22) θ
 (23);

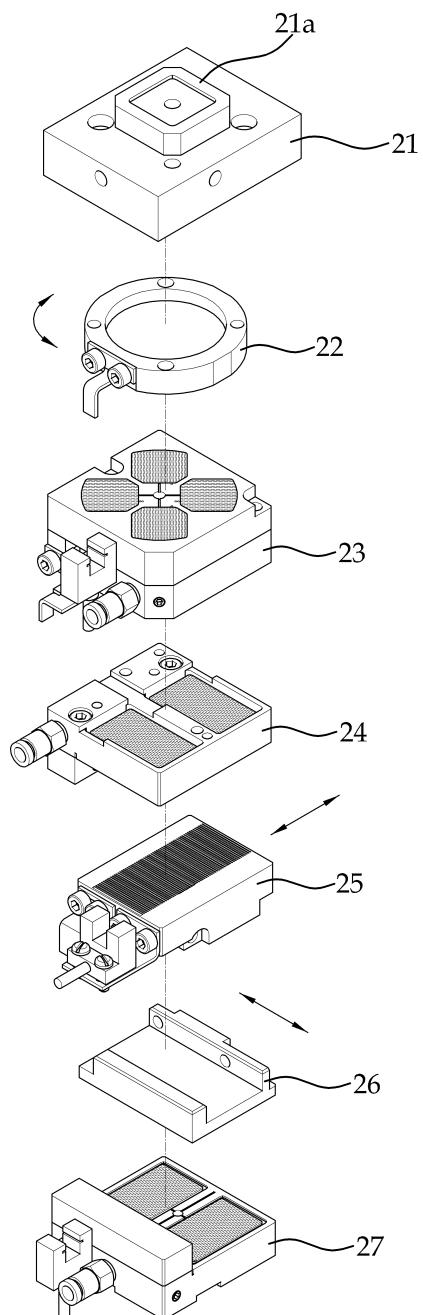
(1) Y Y (24) Y (25);
 (1) X X (26) X (27);가

3.
2

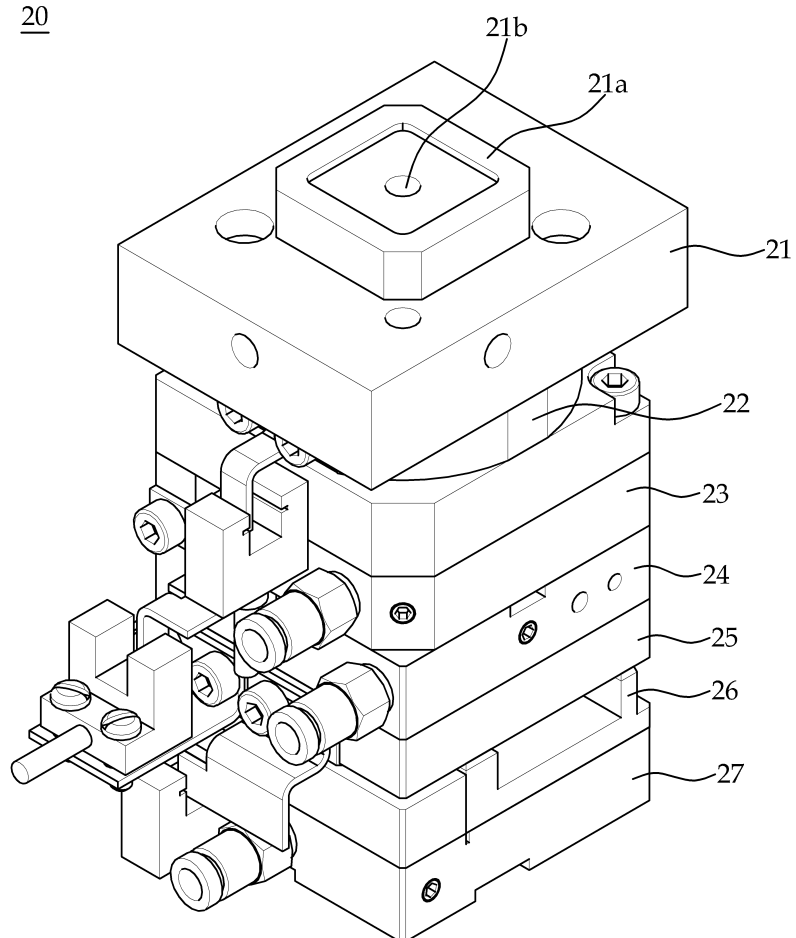
(22,24,26) (23,25,27) 가 가



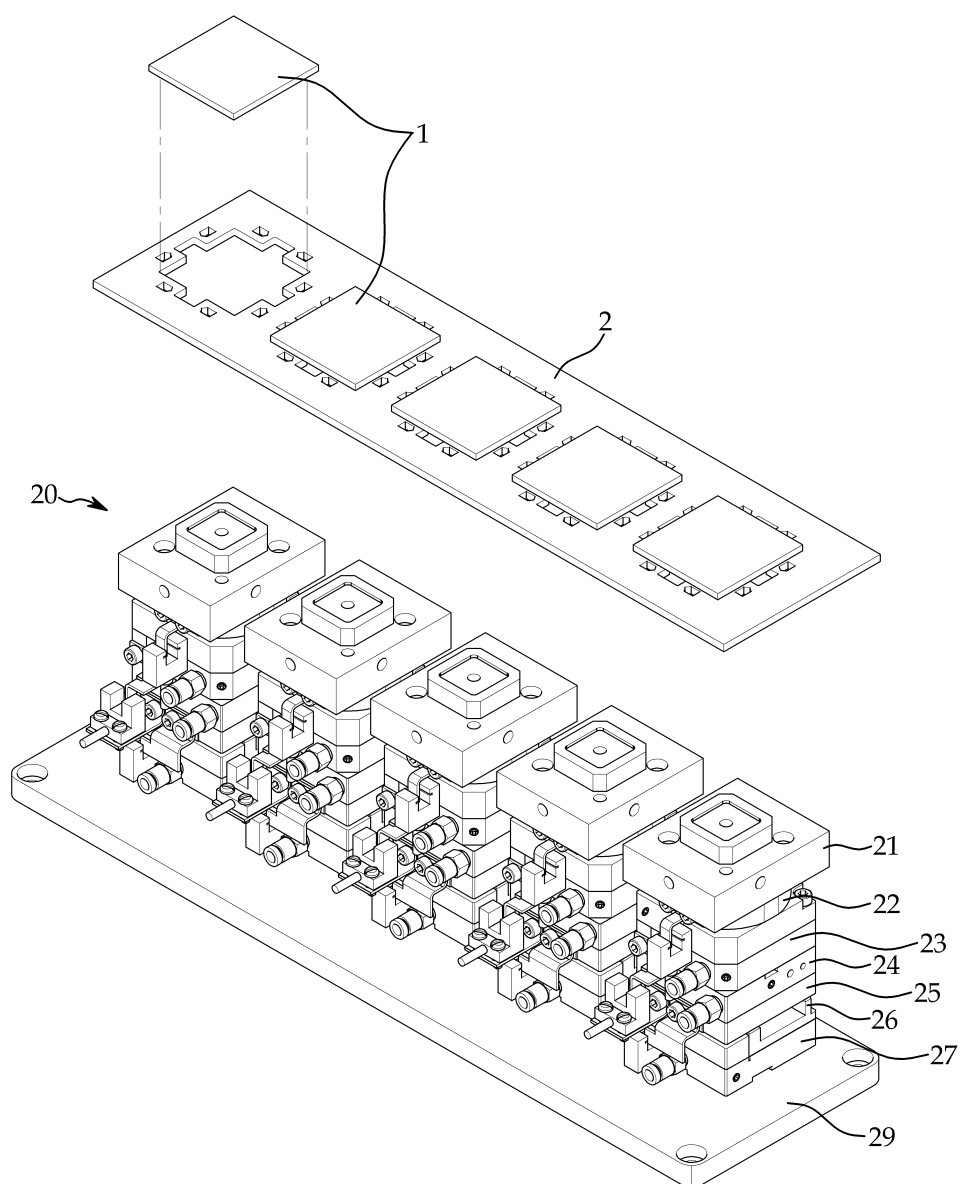
2

20

3

20

4



5

