

(19)
(12)

(KR)
(A)

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H01L 21/027

(11)
(43)

2002 - 0065851
2002 08 14

(21) 10 - 2002 - 0006707
(22) 2002 02 06

(30) JP - P - 2001 - 00030560 2001 02 07 (JP)

(71) 가 가
5 7 1

(72) 가 가 1 - 403 - 53 가
가

(74)
:

(54)

(CAD)

가

6

1

2 A B - .
3 .
4 .
5 .
6 1 .
7 .
8 2 .
9 .
10 .

18 : 19 :
20 : 22 :
23 : 24 :
25 :

, ,
가 .

가 , 가 .

가 .

가 , 0.16μm , 0.18μm 0.14μm

(OPC)

가 .

가 , .

가 , / 가

(CAD)

10 - 282635 , 10 - 282635 , CAD / 10 - 282635 OP

C

10 - 282635

1

9 , CAD 가 . 9 , CAD

가 , 가 ,

가 , 가 .

10) , (40) 2 가 , 32 가 (,

10 ,

(40)

가

(CAD; computer aided design)

(,)

/

가

, CAD

가
가

(,)

).

, CAD

a)

, CAD

; (b)

1

; (c) CAD

; (d)

(b)

(c)

, CAD

CAD

가

가

()

CAD

가

()

1, 1 가
(11). () 가

가 (DRC) / (LVS)

1 12 (12).
(12A) () 1 (12A)
(12b) (12a)

(12a)

(12b)

가 2 A B . 2 A (19) (20)

2 A (19) , (18;) . , 2 A ,

, 2 B (19) (, (20)) 가 ,
(20) . (2 A 18)
() .

(20) (, (19)) (

3

3 , 가 (22)
(23), (24), (25) . (24) (22)

(22)가 (A) 가 , 3 (A)
(20a) (A) (22) (A) , (A)
(20b) 가

, 3 (A) (A) (20a)
(A) (20b) (A)

1
CAD (13). 1 13A
(12b)

4 , 4 가 . 4 ,

1 (가) (20) (19)
(19)

2 () (26) . (20)
, 4 , (18) (19) (20)

3 () (19) (27)
, 가 (19)
(19) (19) (19)
(19) (18) , 4 ,

, (19) (18) (19)
(27)가 .

가 5 . 5 가 (28a 28b)
, (28a 28b) 5 ,

, CAD
(10 40) 6 . 6 ,

1 , (14). (28) (19)
(27) 1 . 가 4 .

4 (가) (19) (27)
(18)

(, 12 14)
(15).

가 (15 ' '),
가 (16). 가 .

6 (27) (19) 6 가
(22)

가

10

, 32 가

2 가

가

7 , 9) . 32 가

40 가

1/50

(9)

가

가

8 2 6 1 (27) (19)
8 2 6
(22) (32)

가 2 가

가

가

가

/ x-

가

가

(57)

1.

(CAD)

;

,

;

CAD

;

(mount)

2.

1 ,

3.

1 ,

4.

1 ,

5.

4 ,

6.

1 ,

, CAD

7.

(CAD)

(a) ;

(b) 가 ;

(c) CAD ;

(d) ;

(e) (b) (d)

8.

7 ,

(d) ,

(f)

9.

7 ,

10.

7 ,

(c)

11.

7 ,

(g)

12.

11 ,

(g)

13.

12 ,

(g)

CAD

14.

(CAD)

;

;

CAD

;

15.

14 ,

16.

14 ,

17.

14 ,

가

18.

14 ,

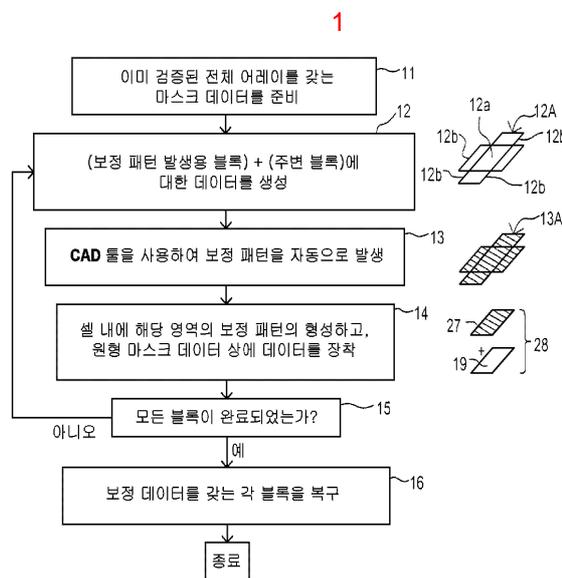
19.

18 ,

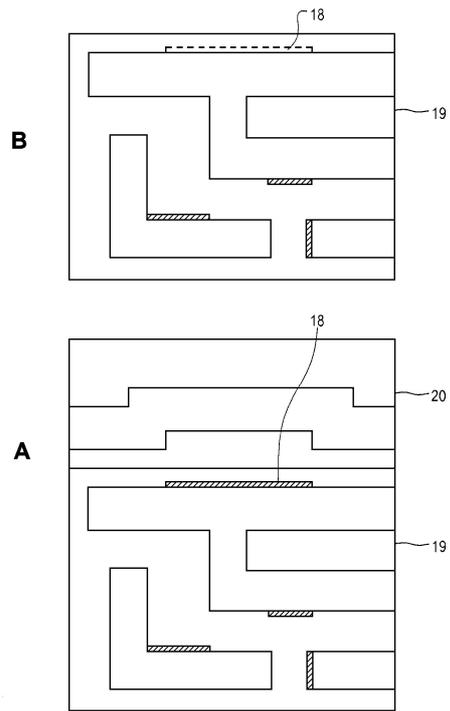
20.

18 ,

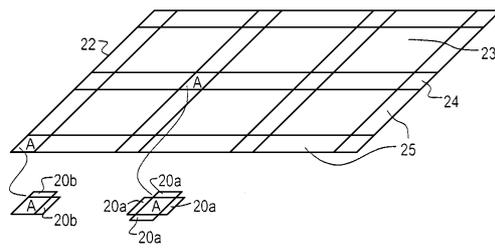
, CAD



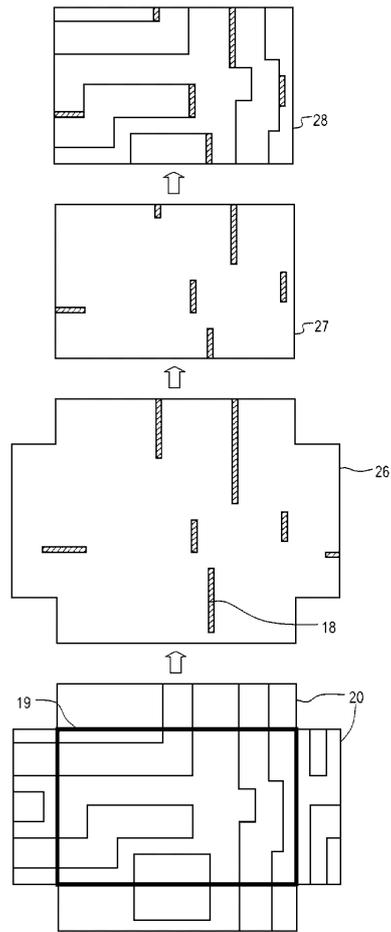
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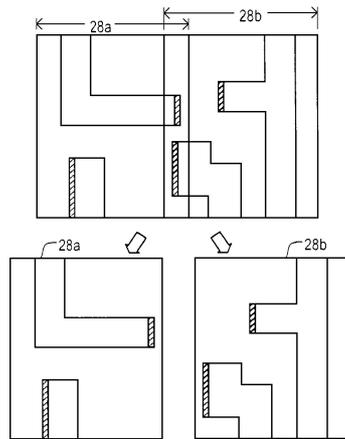
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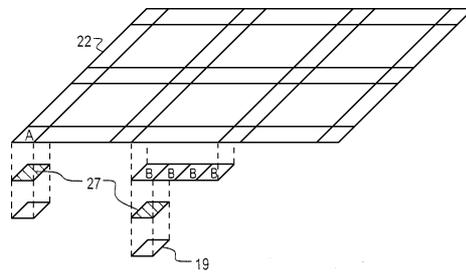
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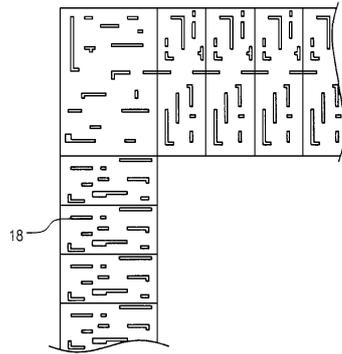
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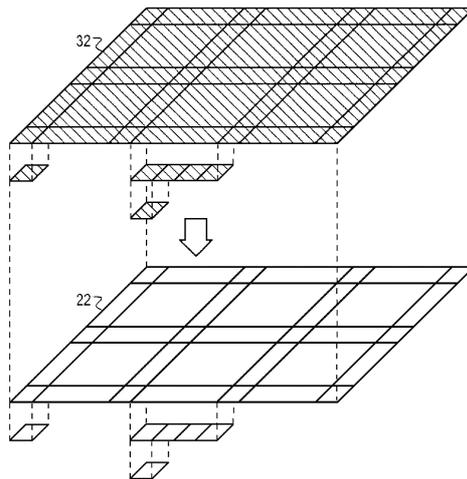
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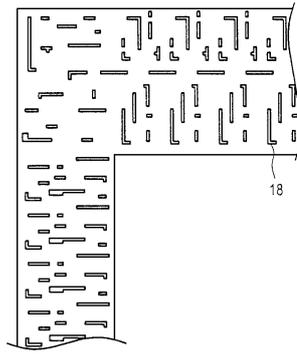
7



8

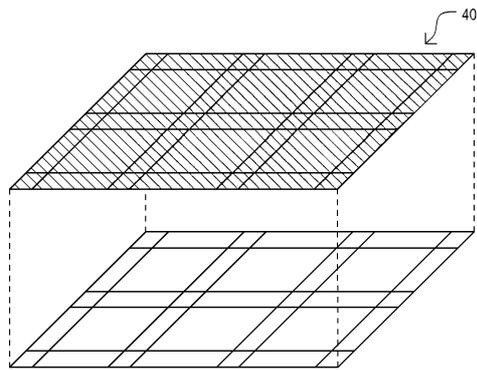


9



종래 기술

10



종래 기술