

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
H01P 5/18

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2004 03 03

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2003 01 30

(30) 09/910,311 2001 07 19 (US)

(71) 160 (:94089)

(72) , ' 93428-0277, , 640

(74)

:

(54)

(14)

, 1, 2
. 1, 2

(24)

. 1, 2

(31, 32)

3b

. 가 , 가
가

가

가

(Lange coupler)

-3dB (,

)

Frick

5,629,654

가

가

가

(via)가

1, 2

, U-

1

가

2

3A

2

3B

2

4

3

1

(10)가

(12)

(54, 56)

(10)

(2

0)

(18)

(20)

(12, 18)

(12) 가

. Frick

5,629,654

2 , 1 2

4. , 1, 2 U-

5. ,

d) 1, 2 가

가

6. ,

d) 1, 2 가

가

7.

a) 가 ,

b) 1, 2 ,

c) 1, 2 ,

d) 가 , , ,

e) 1, 2 ,

f) 1 2

8. , 1, 2

9. , 1, 2 U-

10. , 가 (feedthrough vias)

11. ,

12.

11 , , , .

13.

12 , , .

1, 2 가

가

14.

7 , , 가 (feedthrough vias)

15.

14 , , .

16.

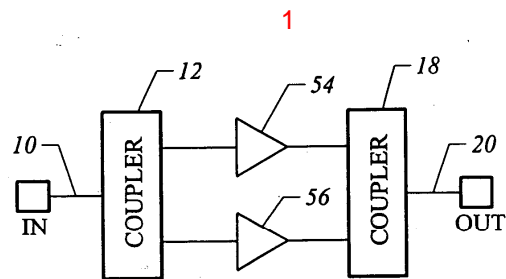
15 , , , .

17.

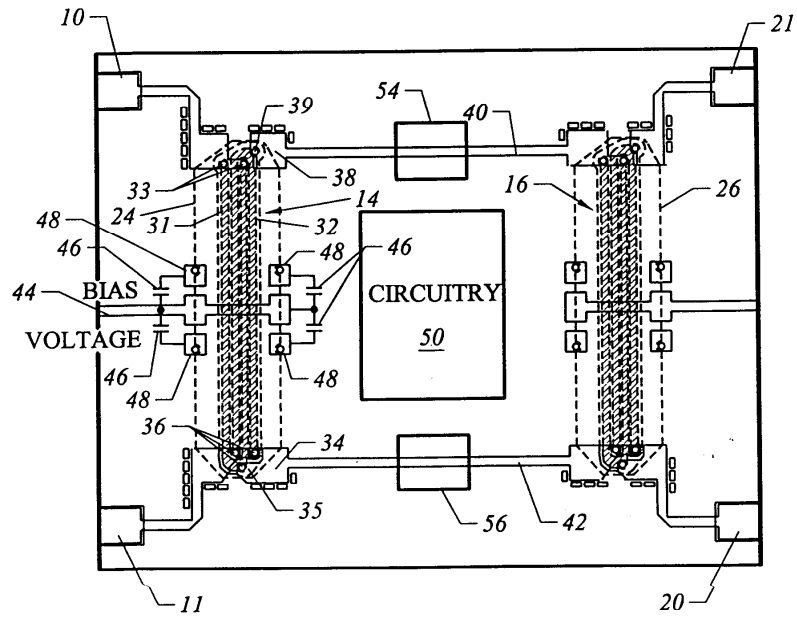
7 , , .

1, 2 가

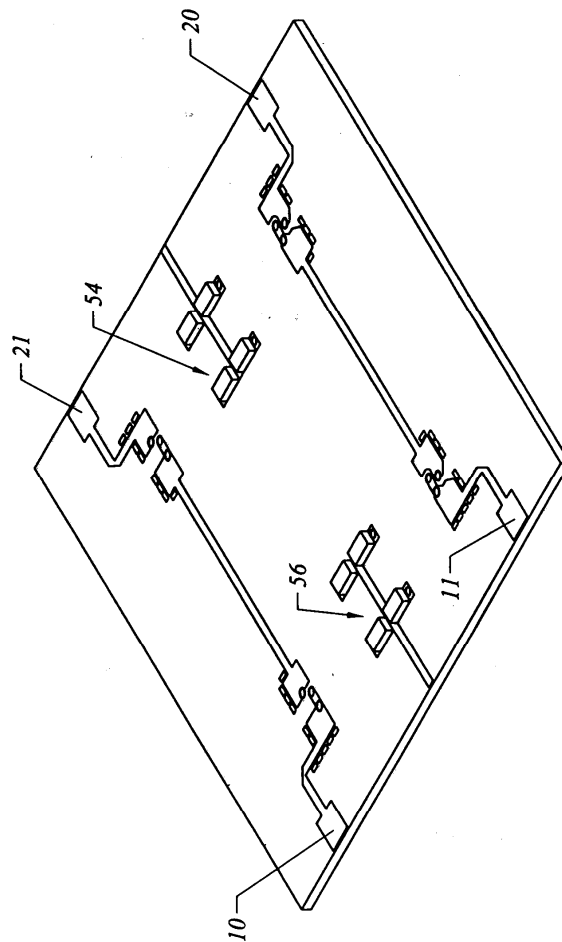
가



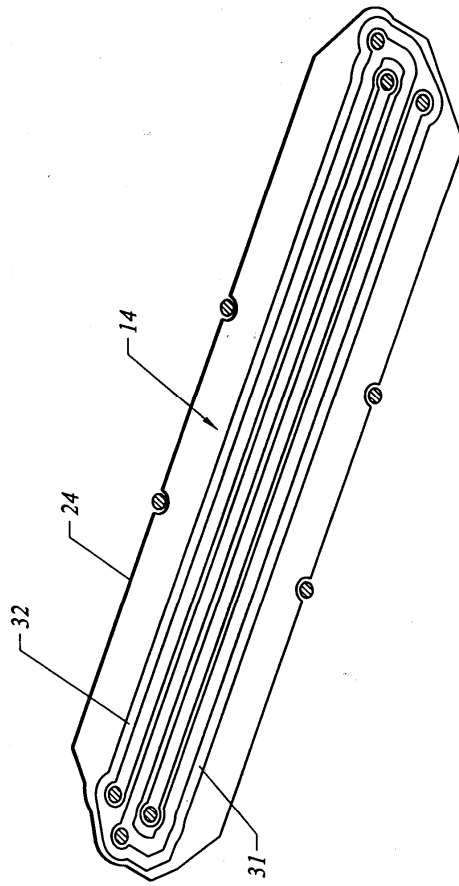
2



3a



3b



4

