

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl. 7
H01Q 1/24

(11)
(43)

2001 - 0080716
2001 08 22

(21) 10 - 2001 - 7007126
(22) 2001 06 07
2001 06 07
(86) PCT/US1999/29095
(86) 1999 12 07

(87) WO 2000/35048
(87) 2000 06 15

92121

6455

(72)

92103	4065
92064	13844
91216 가	7579
92126	11088
92121	6455

(74)

(54)

(600) , , (616, 900, 1000, 1100) (600)	, (PWB; 612) 가	, 360 ,	(604) , ,	(608) , ,
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6

(RF) 가	RF	RF	가
가			가
		가	가

가
가
(counterpoise)
가

가

PCS

(PWB)

(balun)

1 2
(single ended)
1 2

가 180

1 2

가

1
2
3
4
5a 1/2

5b (full)

6
7a 7b
8a 8b

9, 10, 11

가

1 2

1

(101)

(100)

(101)

(100)	(; 104),	(PWB; 108),	(112)
(116)	(112) 1	2 (120, 124)	1 (120)
(104)	(124) PWB (108)	(128)	(128)
(100)			

(112)	(104)	(104)	가	(128)	가
(128)	(104)	(128)	가	(,)	,
(104)	(128)	,			

2	(104)	(128)	(I ₁ , I ₂)	(128)	(I ₁)
	(I _{2X})	(104)	(I ₁)	(I _{1X})	(12)
8)	(I ₂)	(I _{2Y})	(104)		
		(I ₁)			

가,

(100)

PWB (108)

/

PWB (108)

/

/

PCS

가,

PWB

가

가

(PWB)

, 360 ,

,	3	(300)	(300)	2	2
	1	2	(304, 308)		(316)

5a $L \equiv " /2"$. $L \equiv " /2"$

$$E = "cos[(\theta/2)cos(\phi)]/sin(\theta)"$$

5b $L = " "$. $L = " "$

$$E = \cos(\cos(\cdot)) + 1/\sin(\cdot)$$

6 (608), PWB (612), (616) . . (600) . . (600) (604),

(620) (616) . (620) 1 2 (624, 628) . 1
 (624) (616) , 2 (628) . , (620) PWB (6
 20) . . (620) 1 (624) RF (616)

(620) , PWB (612) , , ,

(616) 1 2 (632, 636) . 1 2 (632, 636)
(604) (608) (616) . (616) 1 2 (604)
(608) 1 2 , 가
180 . (616)

PWB (612) . , (608)
 PWB (612) . , (608)
 (644) .

(604) (608) 가, 180 1 2
 , , , (600)

(608) (640) , (608)
 , (604) , (640)

, , (604) (608) / 가 / (608) PW
 B (612) . , (608)

가 , ,

, (600) , , /2, /4 가
 (604) (608) . , (, 900MHz)
 , (600) PCS (, 1.9GHz)

7a 7b , 1.99GHz (100)
 7b (704) (702) ())

8a 8b 1.99GHz (600)
 8a 8b , 8b , 0 1.94dB
 8a 8b

9 (900) (900) (904, 908), 2 (912, 116)
 . (900) 2 (920) (908)
 . (912) (912) (908)
 (904) (908) (916) (916)
 180 (916) (924, 928)

10	(1000)	.	(1000)	(1024)
	(1008, 1012)	.		(1004)
(1016)	(1012)	.	(1008)	(1030)
	(1012)	(1016)	(1020)	.

(1004)	(1024)		가	2
1	(1030)	2	(1016)	180
	(1020)	.	(900, 1000)	

11 (1102) (1108) (1100)
 (1112) (1120) (1116) . (1112) 1/4
 (1104) . (1128) (1104) .

(57)

1.

,
(PWB)

PWB

가 180 1 2

2.

1

1 2

1 2

3.

1 ,
,
1 1 2 1 ;
1 1 2 1 ;
1 2 2 2 ;
2 1 2 2

4.

1 ,
,
1 , 2
;
2 .

5.

1 ,

6.

1 ,

7.

1 ,

PWB

8.

1 ,

9.

1 ,

10.

1 ,

1 2

11.

1 ,

1 2 PCS

12.

1 ,

,

13.

1 ,

/2 ,

14.

,
(PWB)

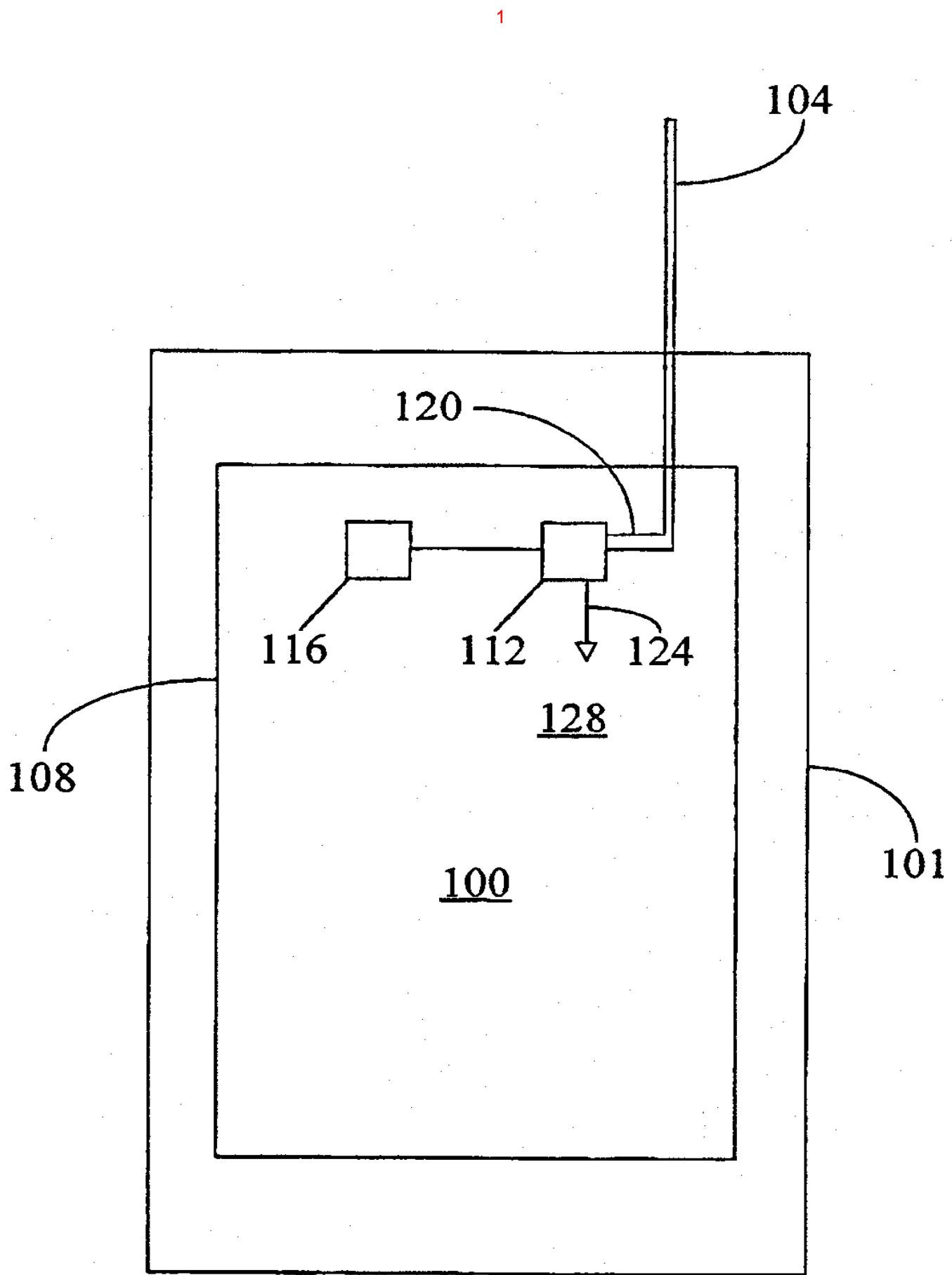
PWB 1 ;

PWB 2 ;

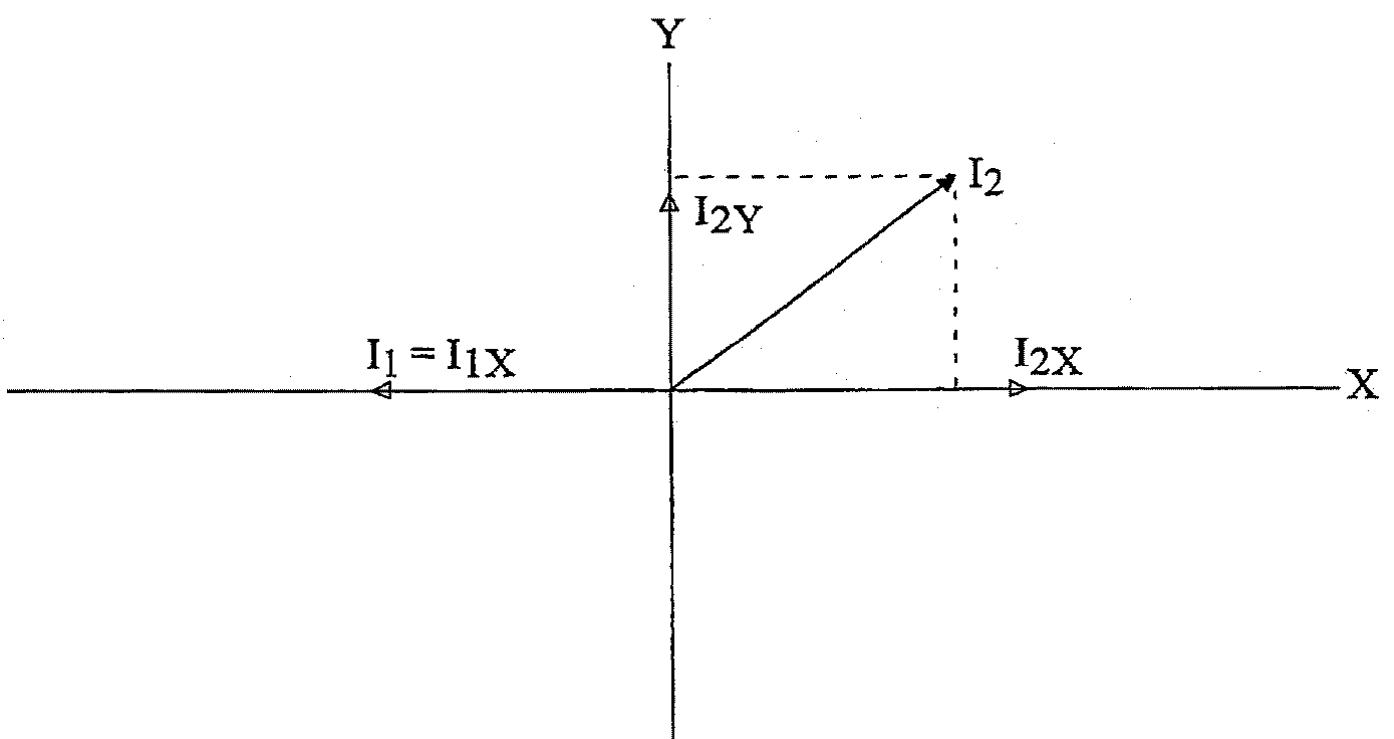
↗ 180 1 2 , , , 1
2 ,

, ,

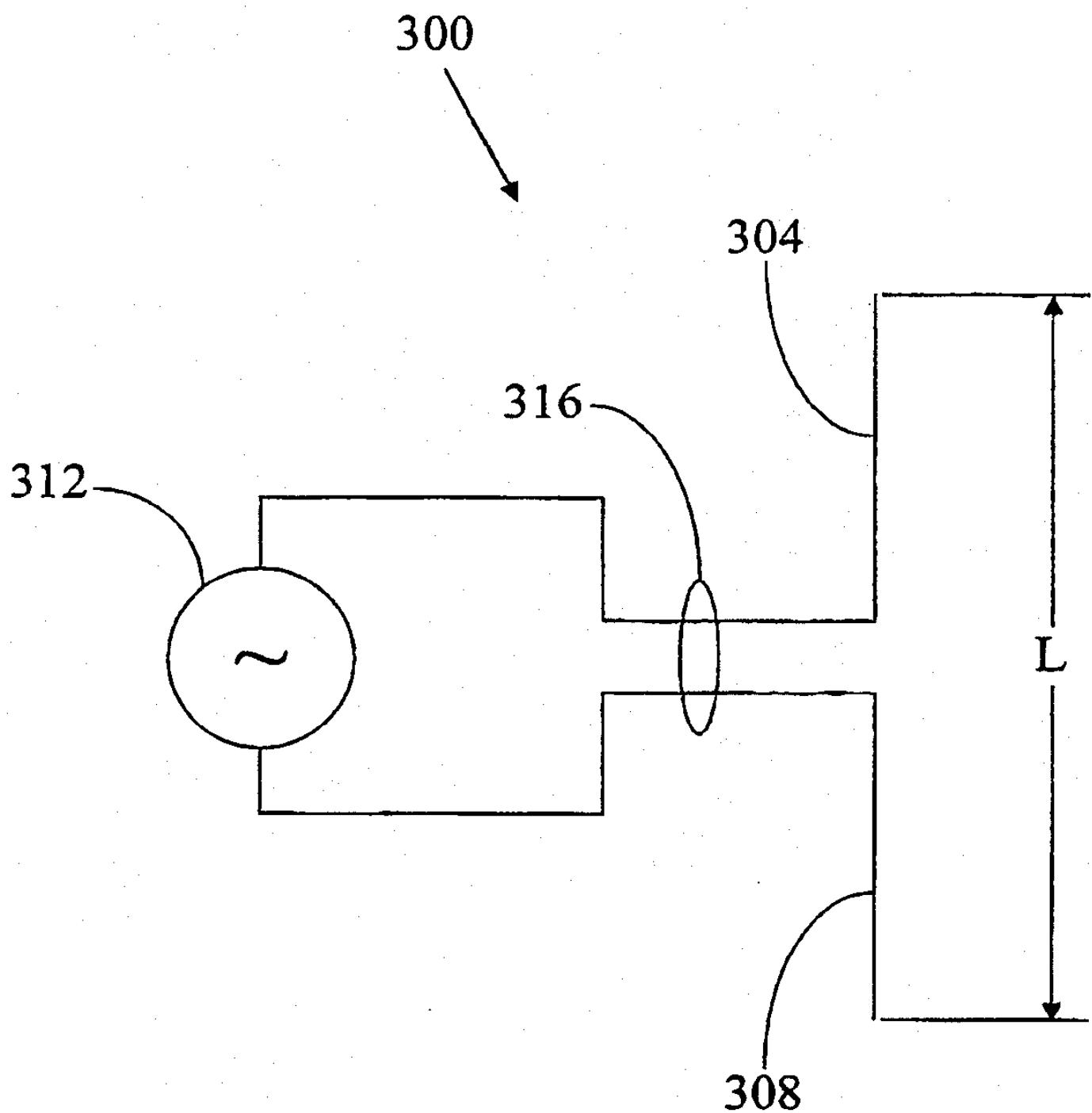
1 2 ,
 1 ,
1 1 ,
 2 ,
2 2 ,
1 2
.



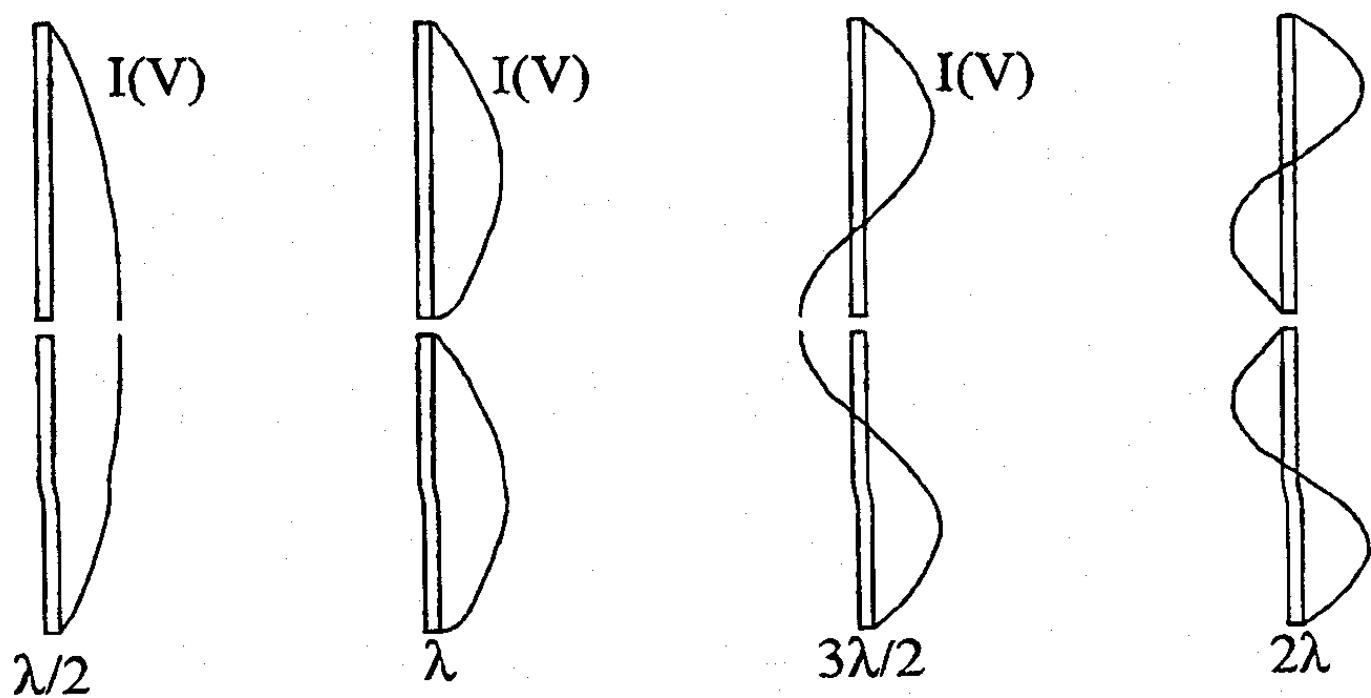
2



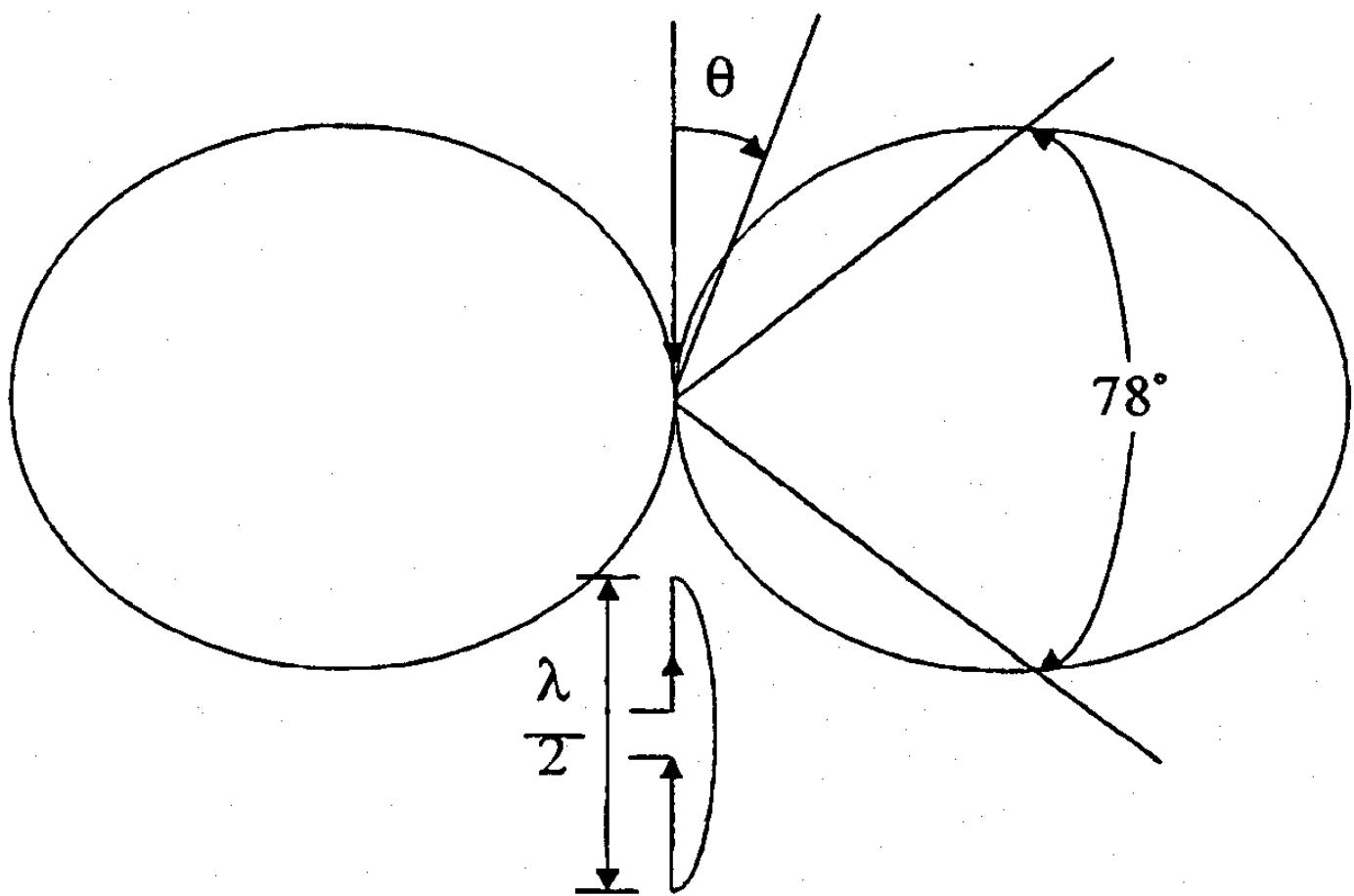
3



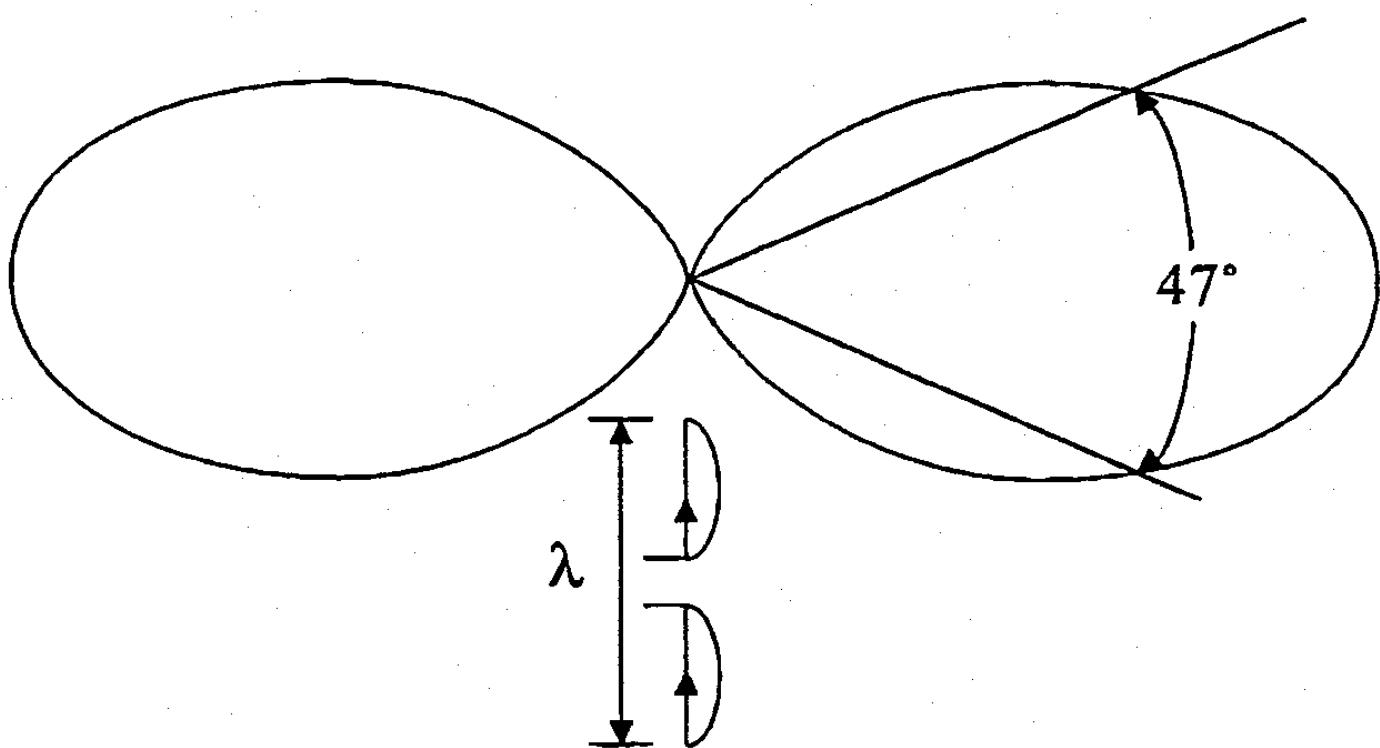
4



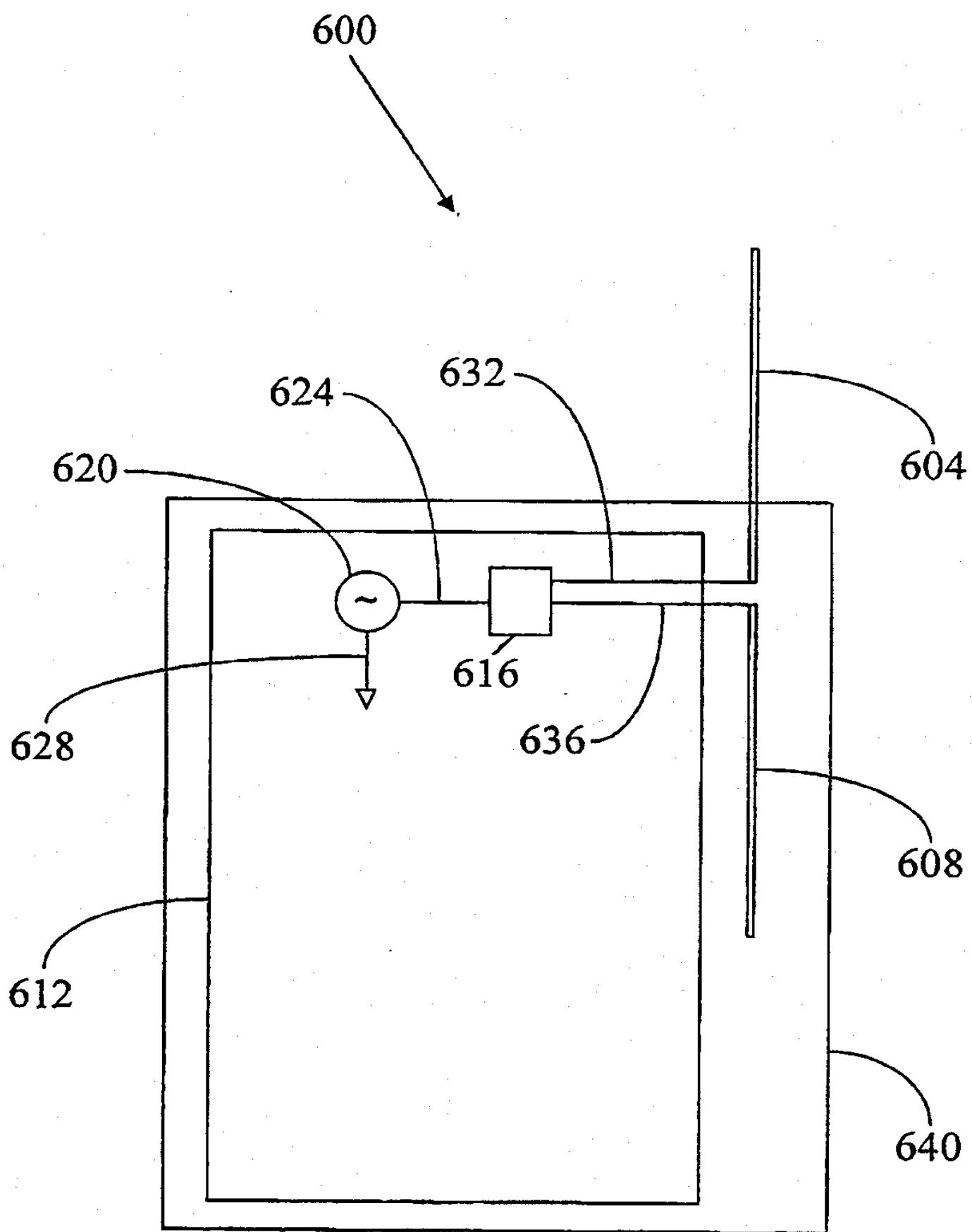
5a

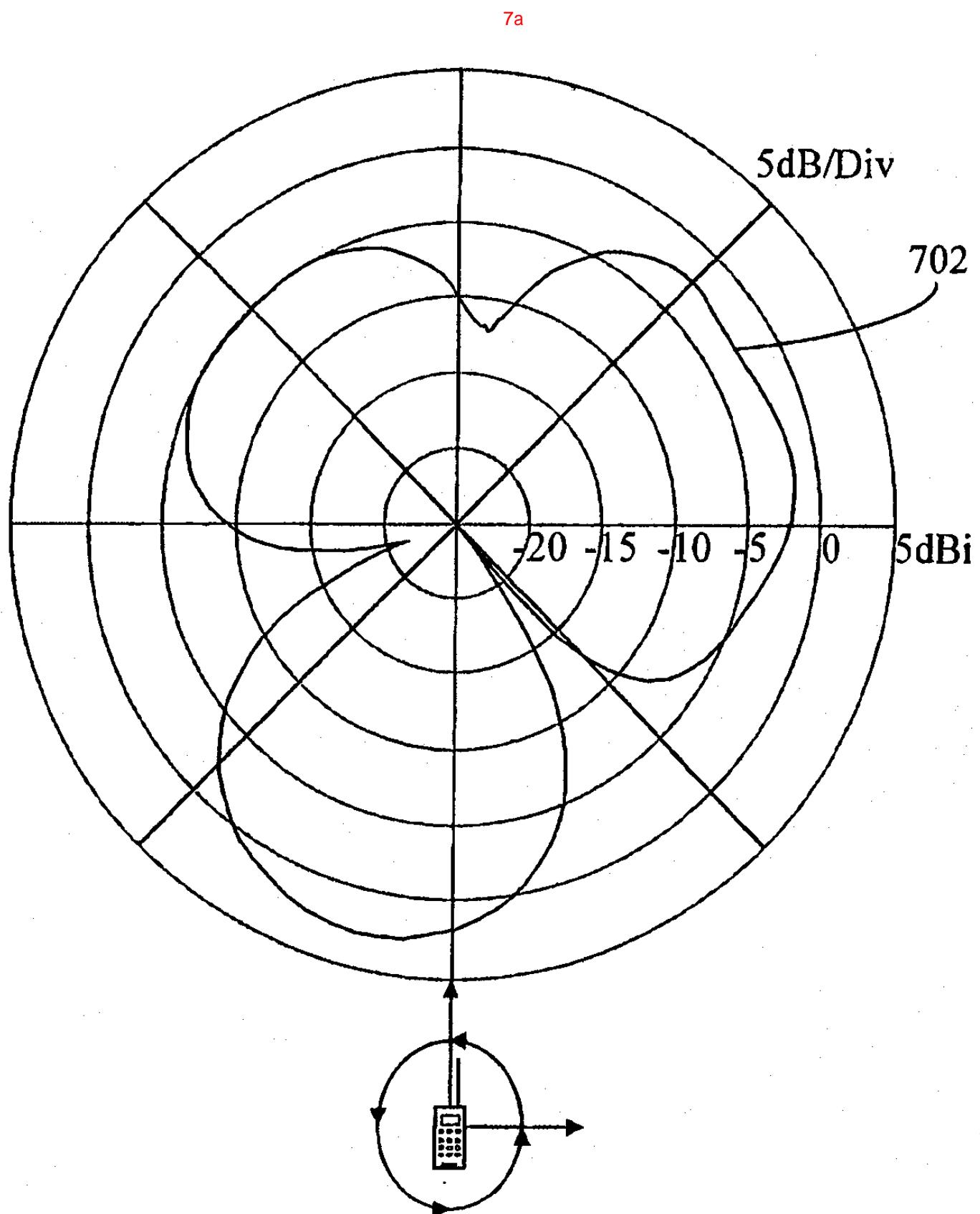


5b

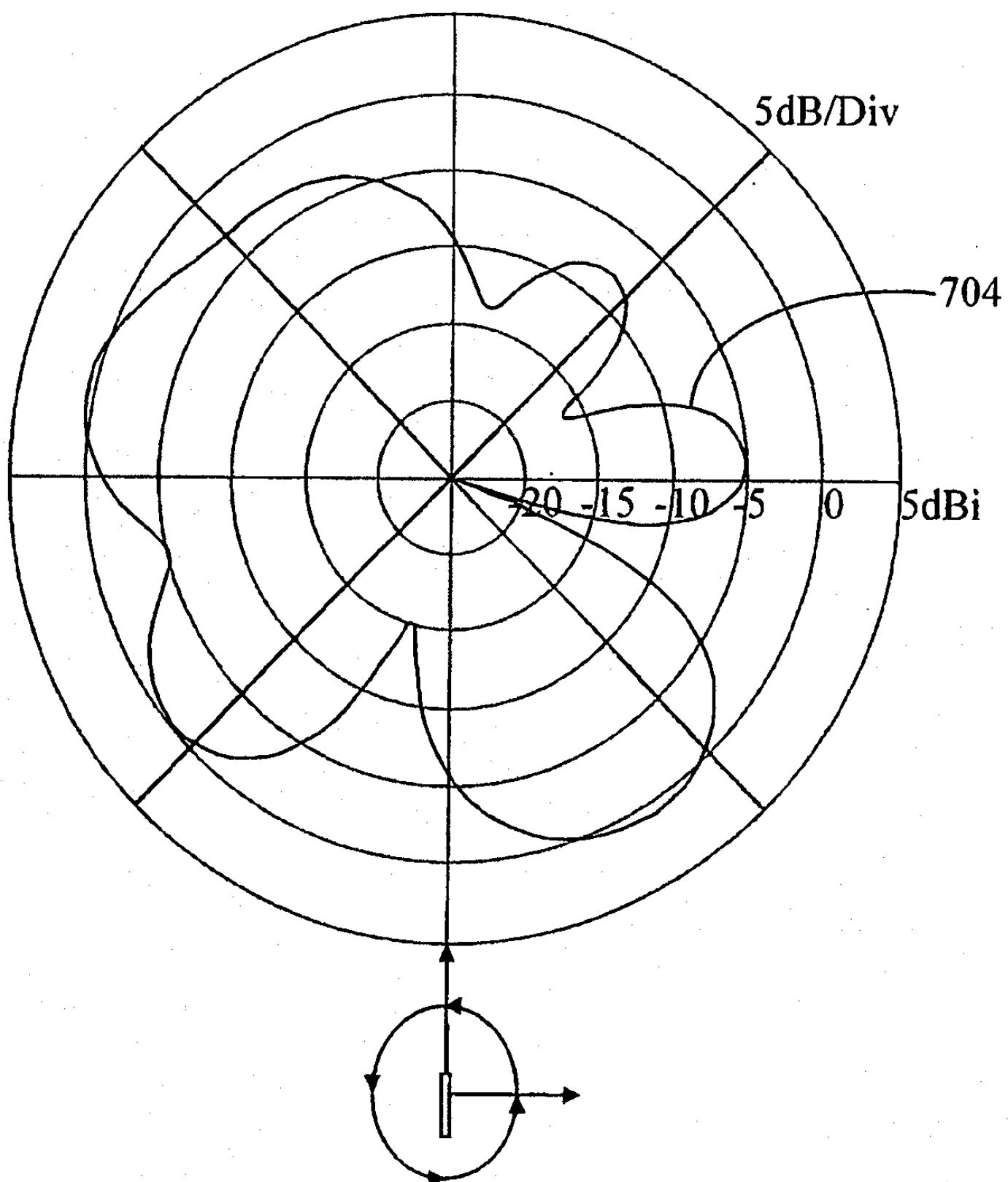


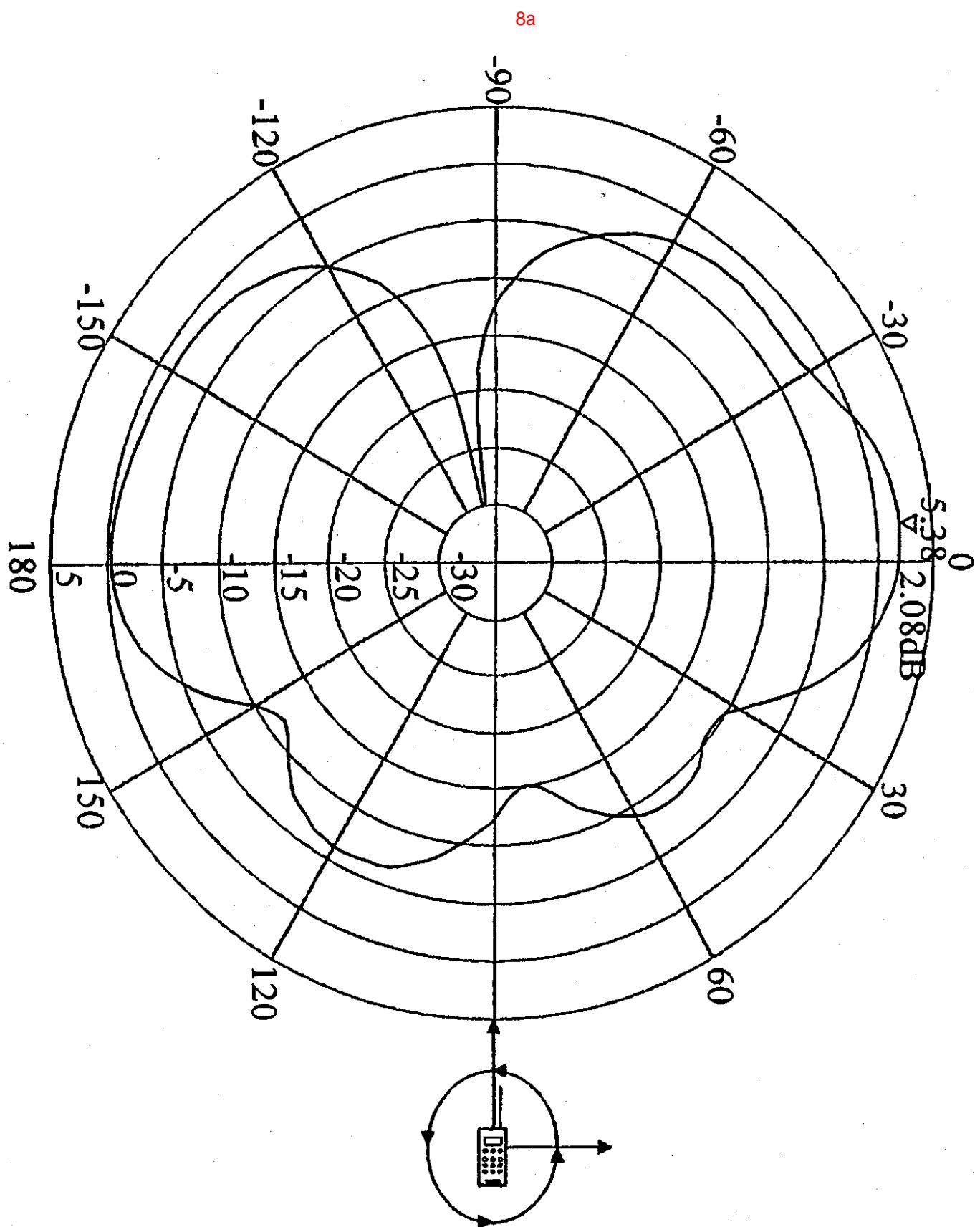
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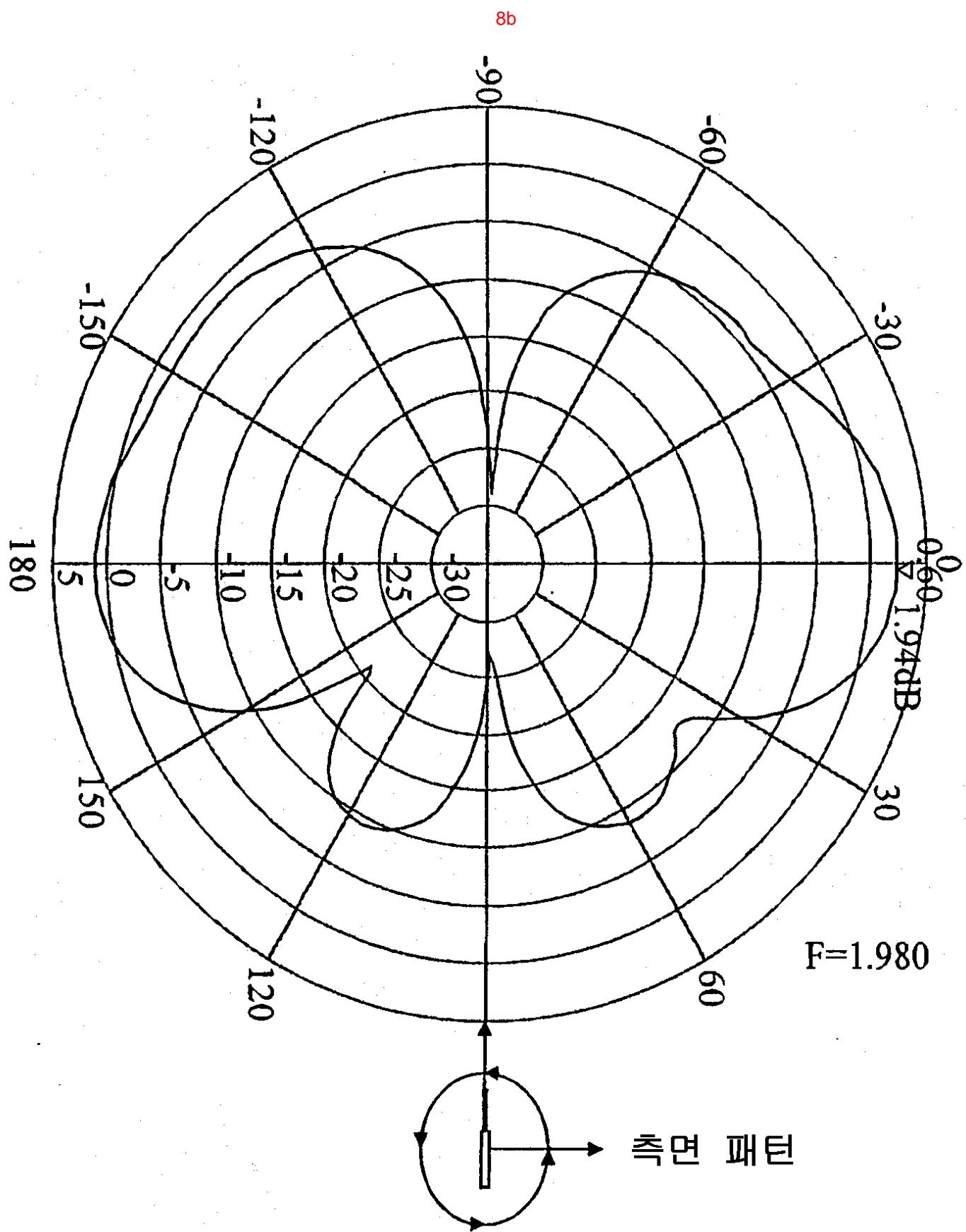




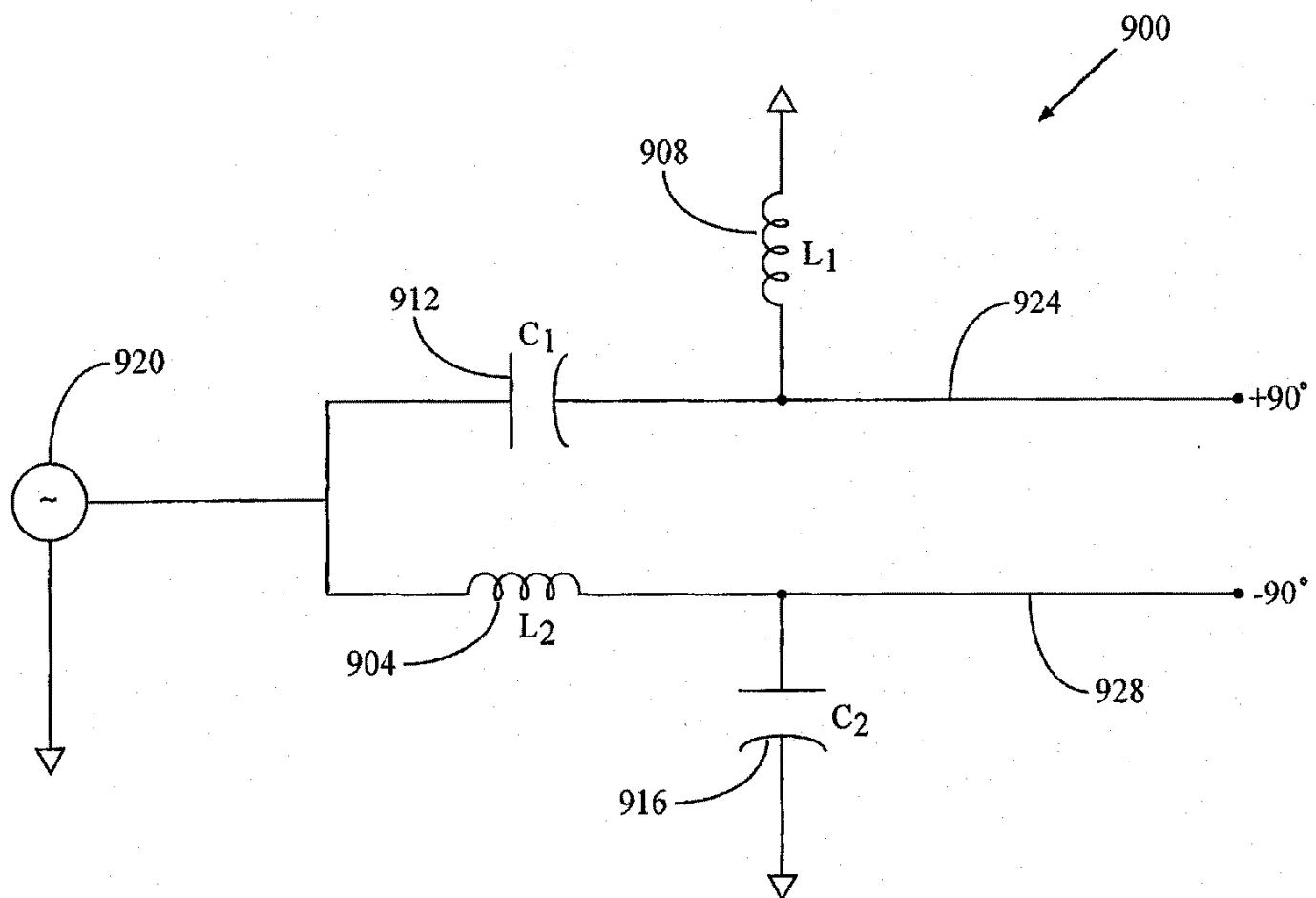
7b

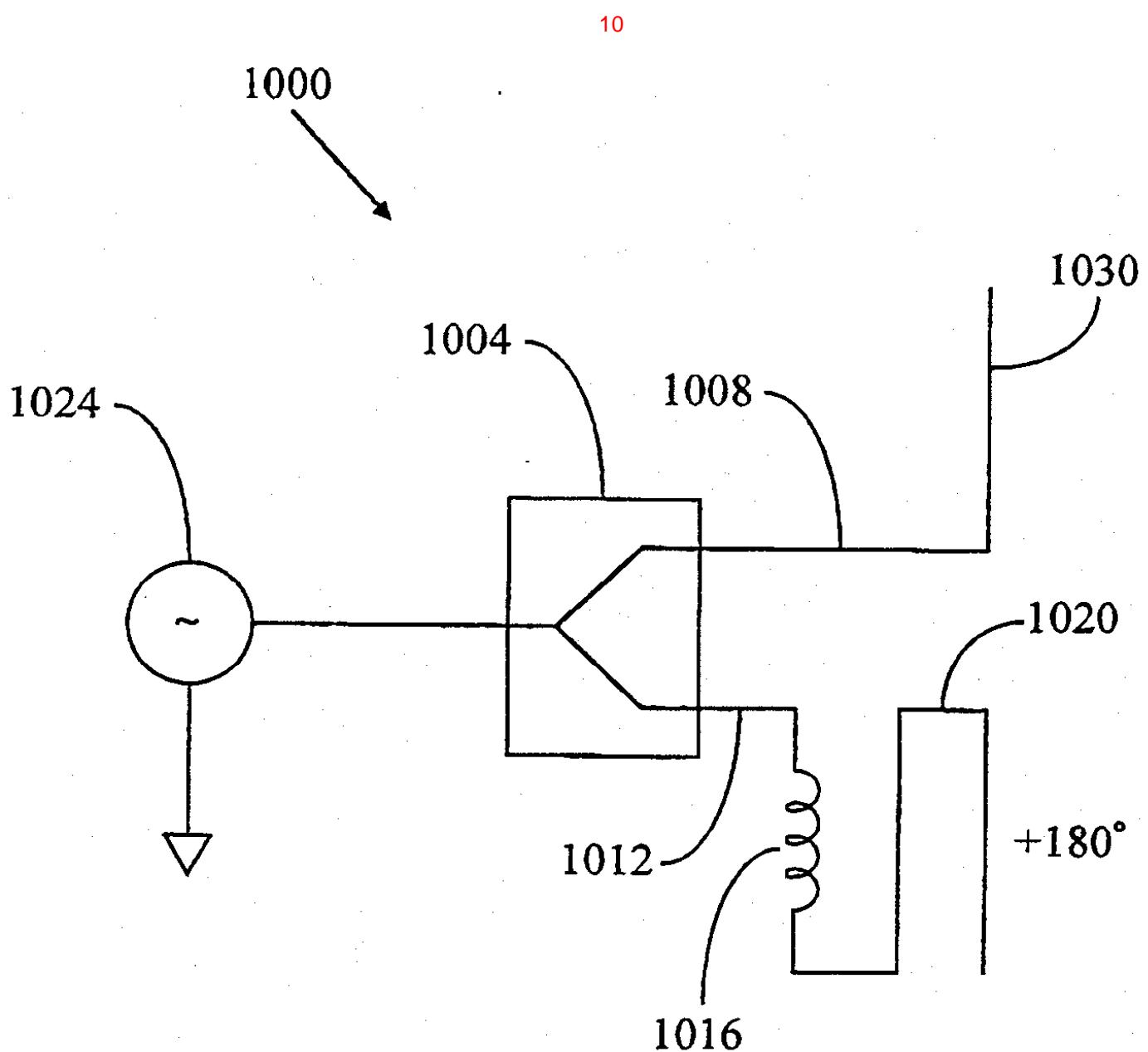






9





11

