

(19) (KR)  
 (12) (A)

(51) 。 Int. Cl. <sup>7</sup>  
 H01Q 13/00 (11) 2002 - 0081096  
 (43) 2002 10 26

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(21) 10 - 2002 - 0020574  
 (22) 2002 04 16

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(30) 09/836,024 2001 04 17 (US)

(71) 600 ( : 07974 - 0636)

(72)	07922	128
	07059	21
	07762	2039

(74)

(54)

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former) , . (balun; balance to unbalance trans  
 (slot line)

1

2

3

4a

4b                  4a

5

6

10: 14: 1 (leaf)

(balun) . (balanced impedance) . (interface)  
ion) . (ground) 가 . 가 . (propagat  
ion) . . 1 ( , ) 2 (

50 (coaxial cable) / /  
50

50	(coaxial cable)	/	/
,	50		
,			
,			
900 MHz)	1	,	(cellular phone; (personal communication) (2 GHz)
2	,		(air loop communication) (4 GHz)

가 가 . 가

가

가

(slotline)

1 , . (10) 가 . (10)  
 / . (10) (balanced configuration)  
 (10) (20) 1 2 . (leaf) (14, 18) . 1  
 2 (14, 18) , 가 . (22) 1 (14) 2 (18) . (22) (20)  
 . (10) . (planar traveling wave)  
 . (end - fire type)

(30) 가 (10) . (30) 1  
 ) 2 ( , ) 1  
 (30) ( ) .  
 (30) (unbalanced substitute and alternatives) .  
 (30) , (40) .

(50) (tuned transmission lin  
e ends or stubs) . , (20) , (50)  
(22) (26) . (50) , (60) 2

(64) . . . (60) 2 (64) (14, 18) , (20)  
     , (50) (14, 18) (30) (20)  
     (26, 64) . (50) (26, 64) (14, 1  
 8) (60) (electromagnetic wave reflections)  
 (constructive interference) . , (26, 64)  
 1/4 ( /4) .

, (50) (10) . (26, 64) (5)  
 0) (10) . , 가  
 , (10) (passband transfer function)  
 74

2 , 가 . , (100) 1 (10) 가

		(100)	1	2		(110, 130)		,	
가	.		(100)					( , )	
	.		(100)	1		(110)		가	
	.	1	2		(105, 115)		.	2	
(130)	3	4		(125, 135)	.	1	(110)	1	2
(105, 115)	2		(130)	3	4	(125, 135)	.	,	
			(140a, 140b)				(140a, 140b)		(120)

(150)가	(100)	.	(150)	가	2
( , )	1	1	.	(150)	.
,	,		(160)	.	(150)
(150)	,		(152a)	( , )	,
1	(110)		(152b)	( , )	.
2	(130)				.

	1	(110)		(140a)			1
	(170)	.	, 2	(130)			(140b)
2		(180)	.	1	2	(170, 180)	
	(170, 180)					(matching)	.
	(175)	2	(180)	1	(170)		3
	.	2		3	(175)		(150)
4			(190)	.			

,	(100)		(110, 130)	100	.
,	(110, 130)	3	(175)		, 50
(matching)	.	3	(175)		(150) 가 50
,	(150)	.	.	(150)	가 3
(175)	,	4	(190)	(150)	
.	4	(190)	-	(mouth)	

가 (150) . 4 가 (190) , 가 1  
 (150)  
 2

Van Nostrand Co. (1952) D. King , "  
 Measurements At Centimeter Wavelength)"  
 (100) ,

3 , 가 , , (200) 1 (200)  
 가  
 2 (100) , , (200) 가 (broadside) -  
 (planar, wave design) (200) 가 , , (200) Z  
 (220) 가 , , , ,

, (200) (4) (215, 225, 235, 245)  
 (215, 225, 235, 245), (240a 240d) 240d  
 (240a 240d) (220) (horn) 가  
 (240a 240d), (200), , ,  
 가

(250) 가 (200) 1 (250) (250) 가 2 ( ,  
 ) 1 1 (250)  
 , , (260) (250)  
 (250) (215) (252a) ( , ) ,  
 (235) (252b) 5

(200) 가 (250)  
 , (250)  
 (240a)  
 1 , , (240b) 2  
 1 (270) 3 , 2  
 (280) (240c) 1 2 , , (240d)  
 4 (275) 3 4 , 3  
 , , , 4



가

가

## 가 (wire mesh)

(emulsion bonded)

가

가

(mesh)

00

가 (fired metal)

7 10

. 50

(binder), (dispersing agent), (solvent)  
(rheology) 가

가

(saeegee:

가

가

(metal trace)

4

71

4(a)

(300)

(W)

(315, 320)

100

100

(  
  (視準) (collimated)

, (315, 320) 4(a)  
 , (300) (315, 320) 가 ( , Al<sub>2</sub>O<sub>3</sub>)  
 W

, 2

가 가

( , ) ,

(57)

1.

,

2.

1

,

3.

2

,

4.

2

,

5.

4

,

6.

5 ,

7.

6 ,

(Vivaldi)

8.

2 ,

9.

8 ,

10.

,

,

11.

10 ,

12.

11 ,

13.

12 ,

14.

13

,

15.

11

,

16.

15

,

17.

,

,

18.

17

,

가

,

가

,

19.

17

,

1      2

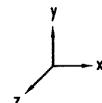
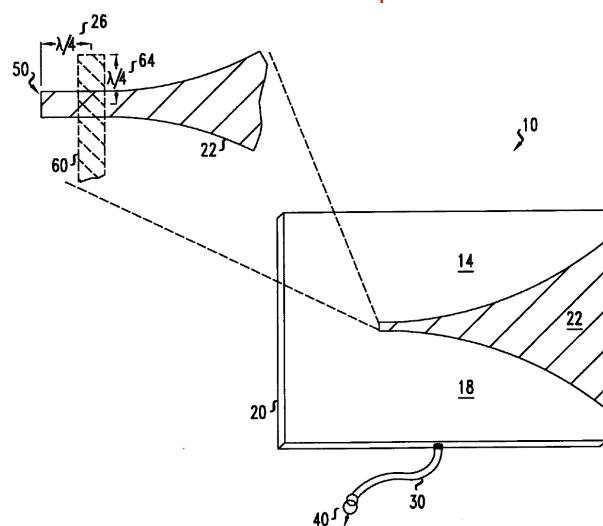
20.

19

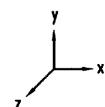
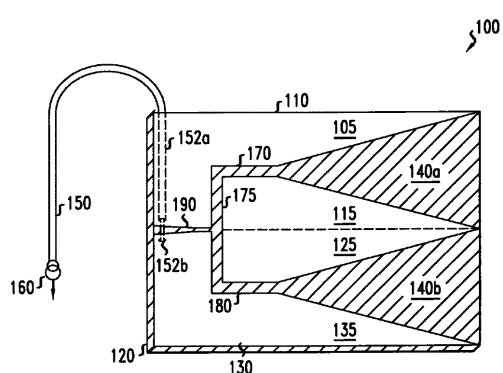
,

1      2

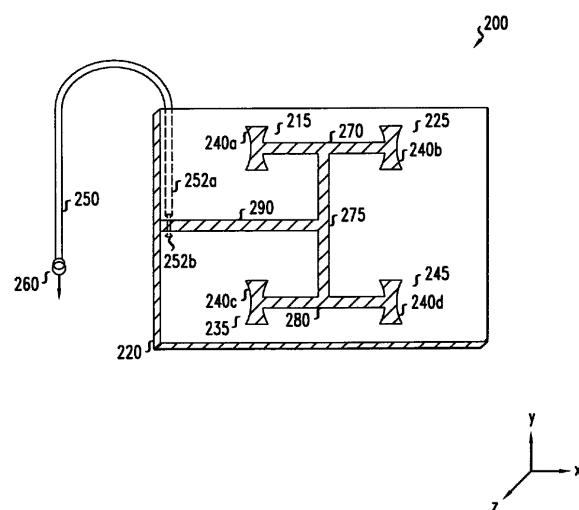
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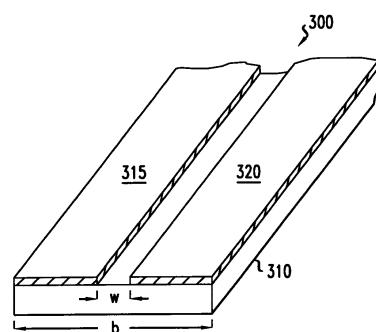
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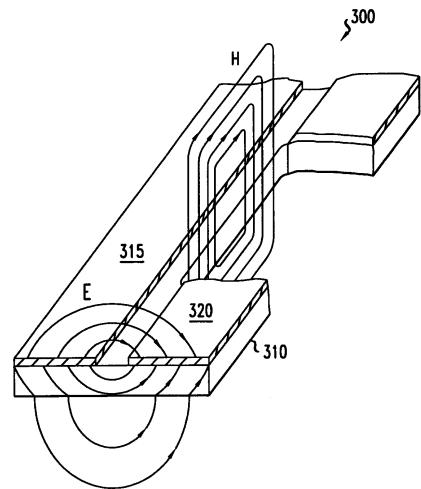
3



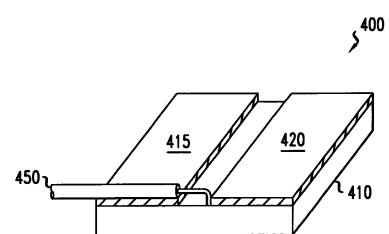
4a



4b



5



6

