

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl.<sup>7</sup>  
H01Q 1/24  
H04B 1/38

(11)  
(43)

10-2004-0108656  
2004 12 24

(21) 10-2004-7013789

(22) 2004 09 03

2004 09 03

(86) PCT/US2003/007350

(87)

WO 2003/077358

(86) 2003 03 10

(87)

2003 09 18

(30) 60/363,144 2002 03 08 (US)

(71) , 527 300 ( :19801)

(72) , , , 32951 258

, 32901 3662

(74)

:

(54)

(120) (100)

가 가 가 가 가



가

(N)

가

IS-95 IS-2000

50 100%  
가

가 가 가  
가

(TDD)

가 TDD

가

가

, PDA

가

/

가

1  
 2A 2C 가  
 3A 3C  
 4  
 5 가  
 6 가  
 7A 7C 3 ,  
 8A 8C 3 ,  
 9A 9C PCS  
 10A 10C 3

(110) , Palm Pilot (120) (100)  
 I assistant) PDA(personal digita  
 (100) WLAN(wireless local area network)  
 (120) / (100)  
 가,  
 4) (120) (102) (104) (10  
 (120)가  
 (120) 4  
 (102)가 가 가  
 N 가 가  
 2A 2C (200) 가 2A  
 (200) (200) (120)  
 2B (110)  
 (200) (120) 가  
 (200)

2C , (200)

가 (200)

(110)

3A 3C (200) 가 가 3A (110) ,  
 3B (110) (200) 1900 MHz PCS(Personal  
 Communication Services) (200) (220) (210)가  
 800 MHz (200) (200)

(200) (230) (200) 가  
 1900/800 MHz

4 (100)

(102) (104A 104C)

(104)

(102) (108) (106) ( (

104A 104C) (110A 110C) (112A (112A

112C) (110A, 110C, 112A, 112C) (108) (110

A 110C) (112A 112C) (112A 112C)

(104) (110A)가 (110A)가  
 (112A) (104A) (RF )가 (

104A) (110A)가 ( ( (112A) (104A)

), (104A) RF 가 (104A)

(102) (104A 104D) (104A 104D) 가

(102)

(116A 116C) (122) (124) (124)

(108) (124) (104A 104C) (116A 116C)

(116A 116C) 가 (100) (122) (125)가

(120) (125)

5 (120) 가 (122)  
 (142) (104A 104C) (116A 116C) (Z1 Z2)

(S1 S2) 1 (116) (S1 S2) (Z1 Z2)

(S1 S2) 2 (Z2) 0 2 (Z1 Z2) (Z1) 가

(102) (300) (120)

6 가 (420) (410) (120) (100)

7A 7B (120) 가 3 dB 7A 3 (500) (X, Y Z) 7B 3 가 (Z (null) X)

7C (110) 15° 7C 가 X- (necking-down) 180°

8A 8C (510) 7A 7C 3 8C (110) 2.1 dBi (8B)

9A 9C 800 MHz 9A 9B 9C 가 900 MHz PCS 4.2 dBi

10A 10C (120) 가 (200) (120) 가 145° 15° 4.7 dBi (10C)

(57)

1.

(signed)

2.

1

3.

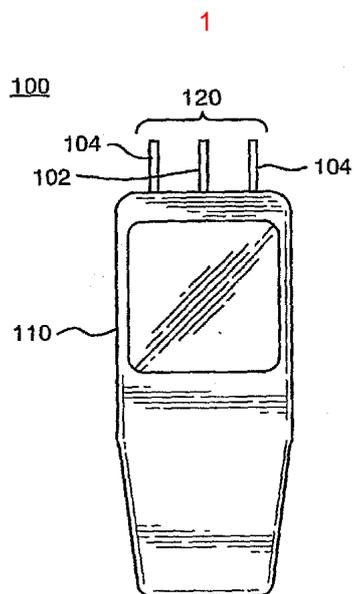
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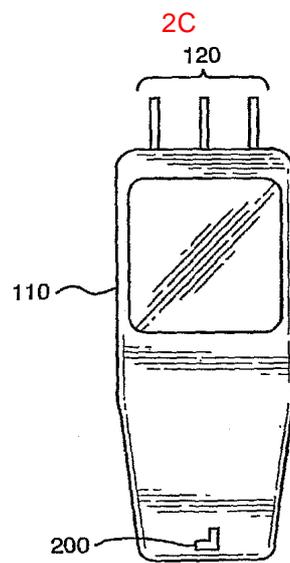
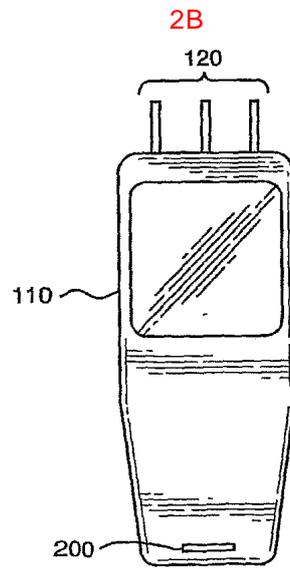
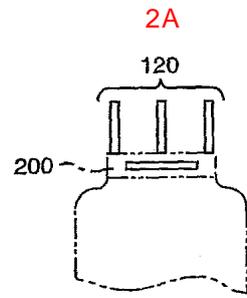
가

- 1 4.
- 4 5.
- 1 6.
- 6 7.
- 1 8.
- 1 9.
- 1 10.

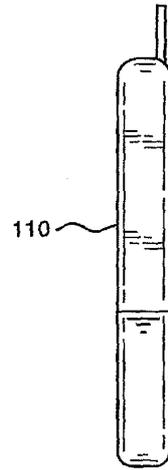
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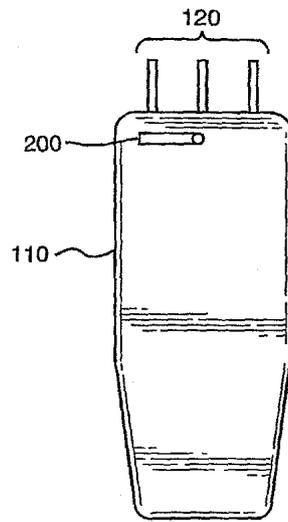




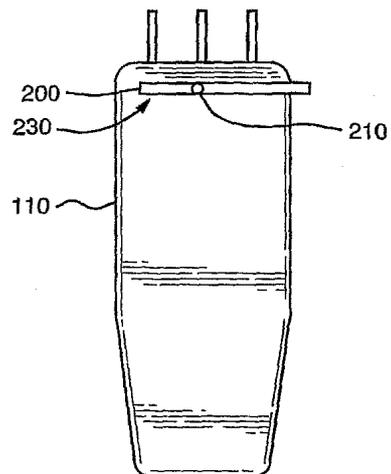
3A



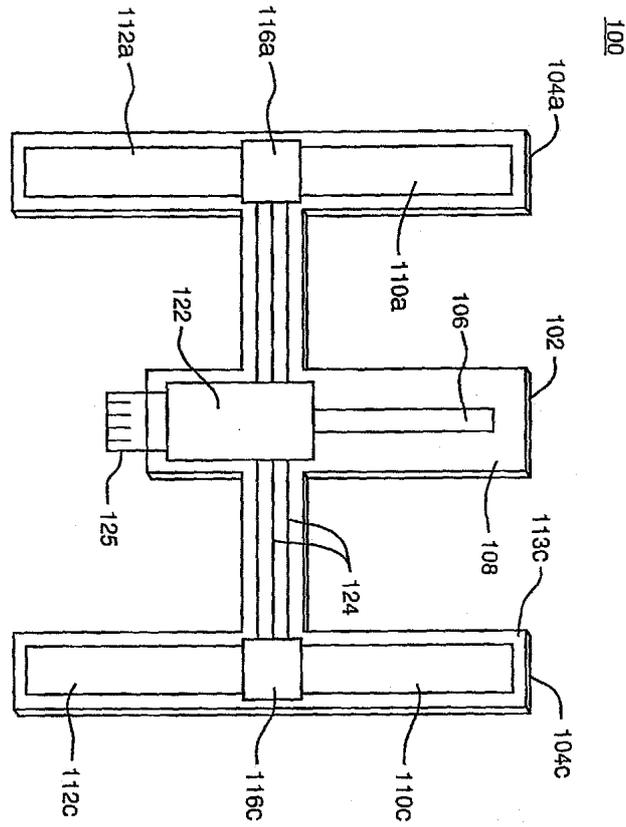
3B



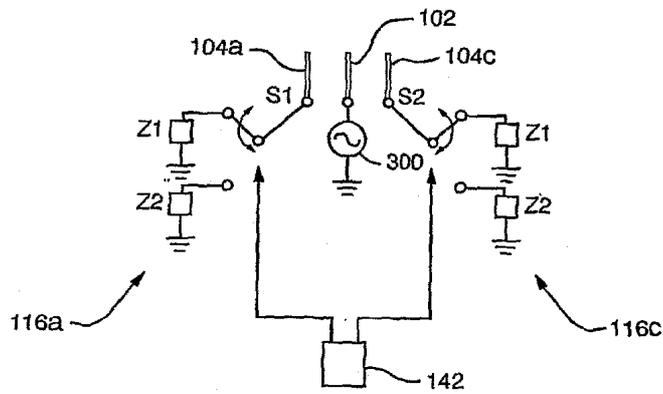
3C



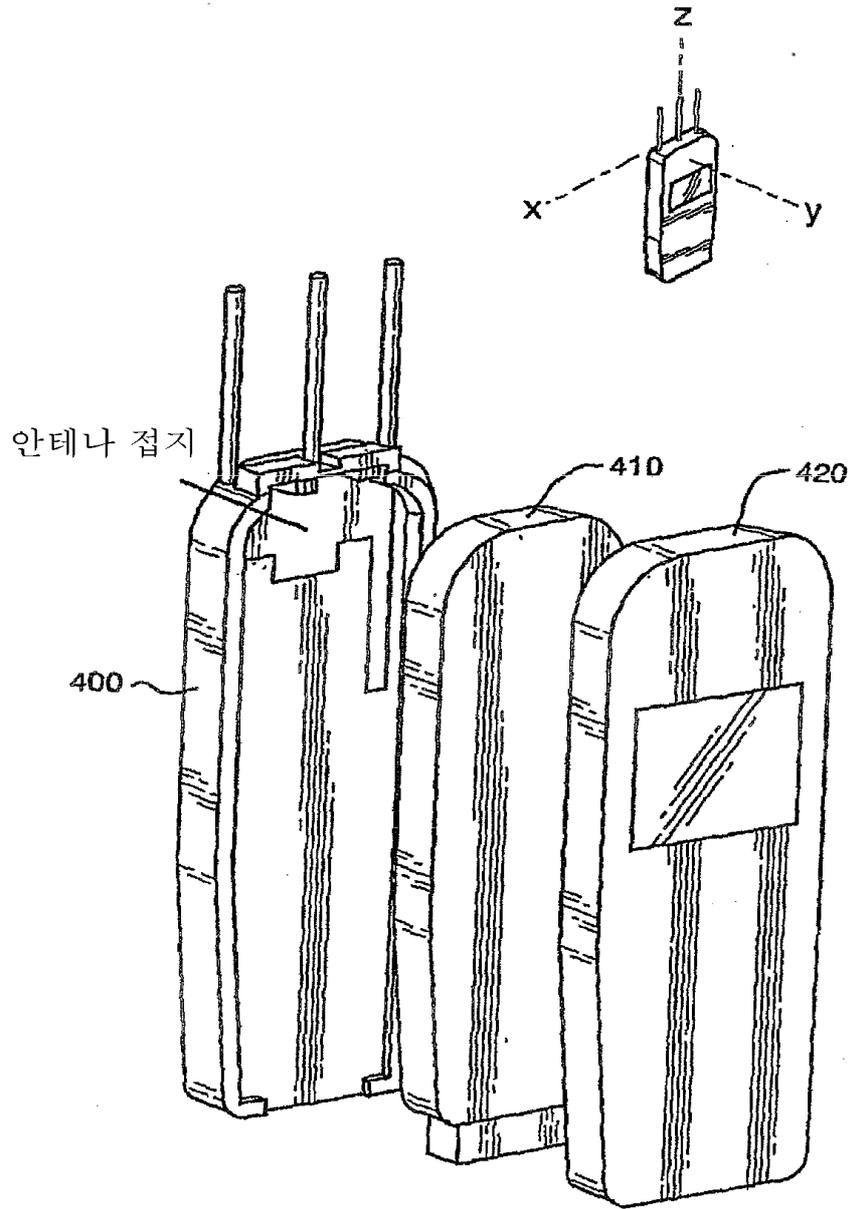
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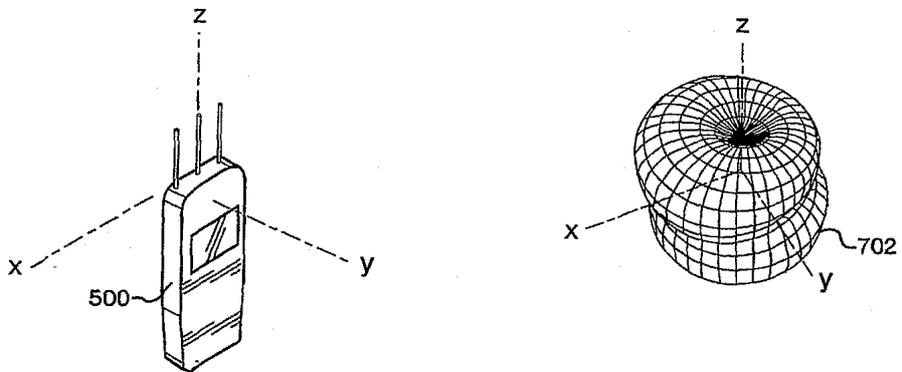
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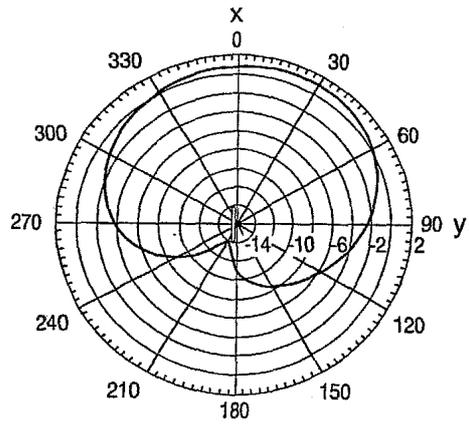
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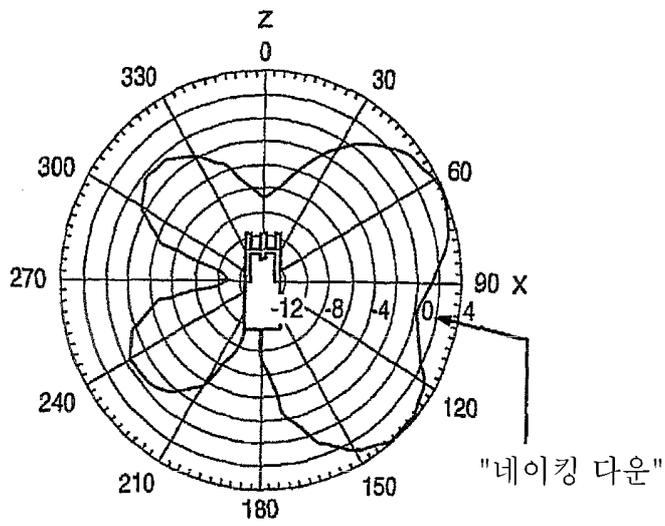
7A



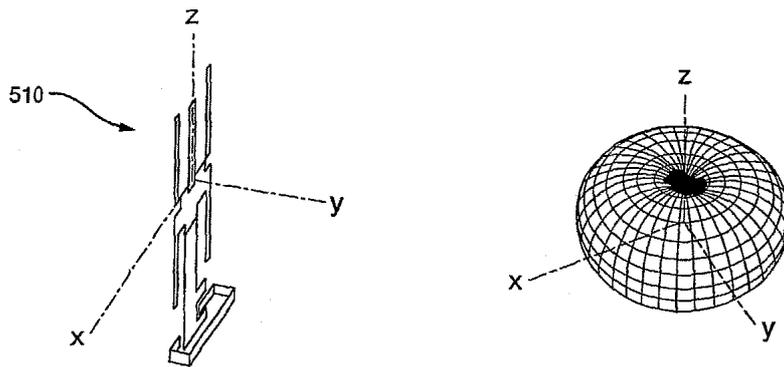
7B



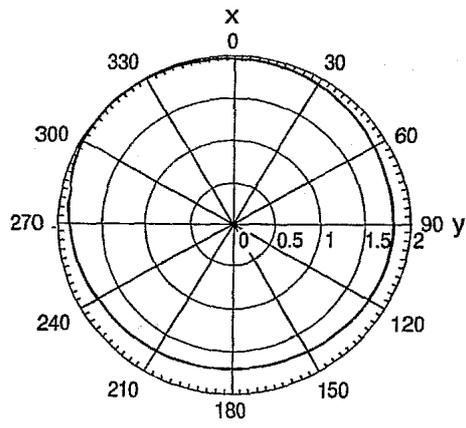
7C



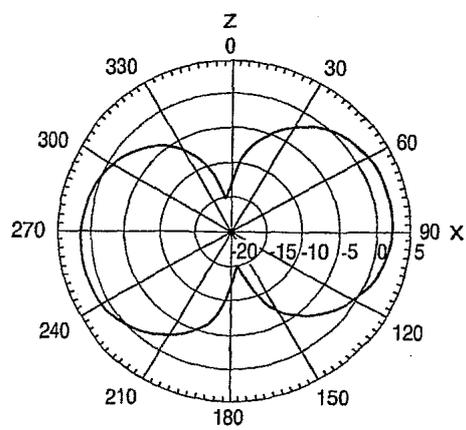
8A



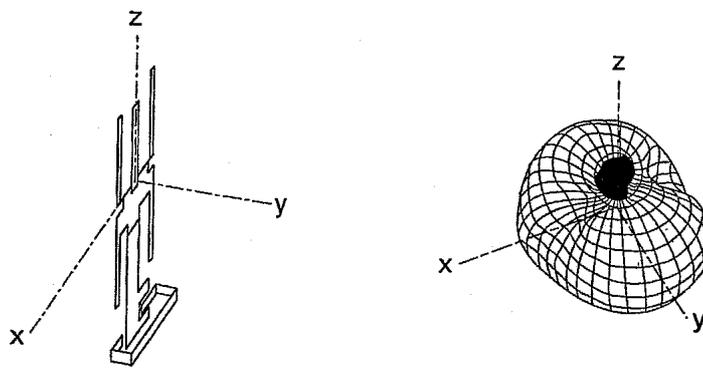
8B



8C



9A



9B

