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(73)

3 416

(72)

607 - 1 (401)

(74)

:

(54)

가 1 , 1 1 2
1 d_1 , 1 d_1 1
2 2 d_2 1 .
가 .

2

1 .
2 .
3 η ρ .

<
110,120 : 130 :

(Diversity) , (Radio Telec
ommunications Base Station)

(Cellular) (Radio Telecommunications System)
(Base Station: BS) (cell)

(Antenna)
(Radio Frequency Signal)() 가 (Fading)
(Receiving Diversity)

가 .
2

1 , 1
(110), 2 (120), 1 2 ()
In - door system)(130) , 1 (110)
2 (120) , 1 2 가

()

가 (Wireless Local Loop: WLL) 900MHz 1.8GHz 2.3GHz

z 가 2.3GHz, 900MHz 1.8GHz

cient) (Correlation Coeffi

가

η , 1
(Correlation Coefficient)
 η ;

ρ ;

η 1 1 d_1 ;

d_1 1 2 2 d_2

1 ; 1 2

가

1 d_1 ;

(h) 가 η , (s130) 1 d_1 . 1

1 (F1) 1 (d_1) , 가 , (s130) 2 (F2) 2 (d_2)
 . 4 (s130) .

4
$$d_2 = d_1 \left(\frac{F1}{F2} \right)$$

, 850MHz (X,Y) 2.3GHz ,
 F1 850 F2 2300 d_2 .

1 850MHz ρ , η , 1 d_1 2.3
 GHz 2 d_2 .

[1]

ρ	η	1 $d_1(850MHz)$	2 $d_2(2.3GHz)$
0.3	3.97	5.039116118	1.862282044
0.35	4.45	4.48940535	1.659128064
0.4	5	3.99966183	1.478135894
0.45	5.61	3.563343808	1.316887929
0.5	6.3	3.174623165	1.1732303
0.55	7.07	2.828307561	1.045244099
0.6	7.94	2.519771087	0.931219749
0.65	8.91	2.244892464	0.829634171
0.7	10	2	0.739130435
0.75	11.2	1.781822544	0.658499636
0.8	12.6	1.587445789	0.586664748
0.85	14.1	1.414273347	0.522666237
0.9	15.9	1.259992066	0.465649242

, 0.5 가 , 2.3GHz
 1.1732303m . 2.3GHz 가 1.
 1732303m

, 2.3GHz

가

가

(57)

1.

가

η (Correlation Coefficient)

ρ

η

;

ρ

η

1

1

d_1

;

d_1

1

2

2

d_2

2.

1

,

η

,

1

η

;

ρ

ρ

η

;

η

3.

2 , ρ η ,
 η ;
 η 1 ρ ;
 , η ρ η ρ .

4.

1 3 , 1 d_1 ,
 h ,
 $d_1 = \frac{h}{\eta}$ 1 d_1 , .

5.

1 , 2 d_2 ,
 1 F_1 , 2 F_2 ,
 $d_2 = d_1 \frac{F_1}{F_2}$ 2 d_2 , .

7.

5 d , , (Effective Antenna Height) h ,

$$\eta = \frac{h}{d} ,$$

8.

1 1 2 가
;
1 1 d_1 ;

d_1 , 1 2 2 d_2

9.

8 , , 가

10.

9 , 1 d_1 ,

1 P , , η
;

$$P = \eta ;$$

, P η ;

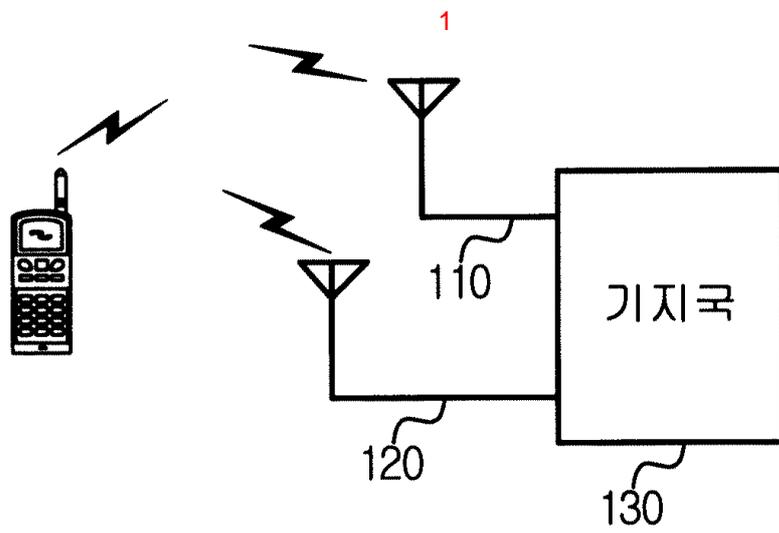
$$h , d_1 = \frac{h}{\eta} 1 d_1$$

11.

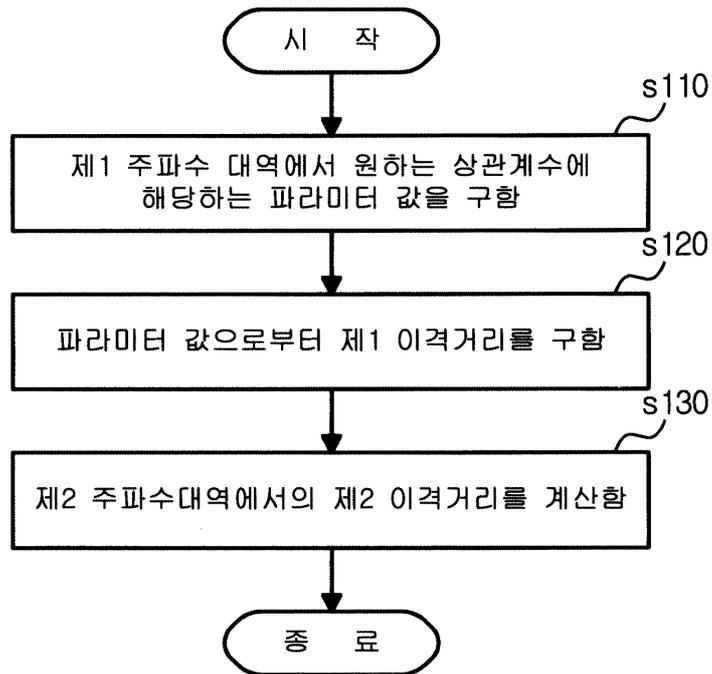
10 , 2 d_2 ,

1 $F1$, 2 $F2$,

$d_2 = d_1 \frac{F1}{F2}$ 2 d_2 , .



2



3

