10 - 0369597

	(19) (12)	(KR) (B1)	
(51)。Int. CI. <sup>7</sup> H04B 1/10		(45) (11) (24)	2003 01 30 10 - 0369597 2003 01 13
(21) (22)	10 - 2001 - 0010070 2001 02 27	(65) (43)	2002 - 0002190 2002 01 09
(30)	09/606,892	2000 06 29	(US)
(73)		3 416	
(72)	,75081 ,	, ,	911
(74)			
:			
(54)			

2

,

```
1
  2
  ЗА
           3B
  4A
  4B
          4A
  5
                                           (PCS)
PCS
                                                                        가
                                                 (end - user)
                               가
                                                                             (infrastructure) 가
  (operating) 가
                                                   가
                            가
                                                                            가
                                                                                  가
                                                                                          (Time Divis
ion Multiple Access: TDMA),
                                             (Frequency Division Multiple Access: FDMA),
            (Code Division Multiple Access:
                                              CDMA
                                                                                            가
                                                                     가
CDMA
                                                                                                . CDM
                                                 )
Α
                                                                                  (convolutionally)
                               (Walsh)
                                               (long)
                                                                                  64
```

- 2 -

```
- (in - phase; I)
          QPSK
   RF
                                                         (quadurature: Q)
                       TIA IS - 95 CDMA
                                                         TIA S - 2000
                        64 PN
                    1
                                   64 -
                                                             0
                                - (X - OR)
                                              64 -
CDMA
                    가
                                                                Μ
                                     (capture)
           가
                                                Μ
                                  CDMA
                                                      가 . , CDMA
                                                   가 .
                                 CDMA
           , CDMA
                                                  , 1)
                 2)
   0
                                 2
                    1) 1 1
                                                               2) 1
                                      2
    2
         0
                                                               CDMA
                                                가
                      가
        (ration)(Eb/No)
                                    ) -a(
                       +a(
                                                  0
                                    (coherent)
```

- 3 -

, CDMA , CDMA 2 1 1 0 2 0 2 1 , 2 0 1 2 0 1 2 1 가 가 가 (特定) 가 1 5 (RF) 100 100 121 - 123, BS 101, BS 102, 103 101 - 103 (MS) 111 - 114 . 111 - 114 , PCS , (metering) 101 - 103 121 - 123

가 , (obstructions)

.

- 4 -

```
, BS1, BS2, BS3 (BSC)
                                                  (BTS)
           (air conditioning) , (heating) ,
                                                  (supplies),
           RF RF
                  121, 122,
                           123
            BS1, BS2, BS3
BS1, BS2,
         BS3
                                         ) 131
                                  131 T1
(MSC) 140
                                         Т3
                                                       (fiber opti
          (backbone)
c) ,
140
                                   140
          가
                    (coordination)
            131 가
                                                           BS1,
      BS3 MSC 140 .
BS2,
             100 , MS 111 121
                                         BS 101 , MS 113
            BS 102 , MS 114
                                         BS 103 .
122
                                   123
                                                           М
                        , 123
                                           . MS 112
                                                           MS
S 112
             121
                 가 . MS 112가
112가
       123
                                   121
                                                    123
      "가
                                                 . , MS 112가
                                             , MS 112 BS 103
BS1
        BS1
                  가
                  가 BS . MS 112 103
                                                           В
       (on - going) ,
S 103
                                 BS 101
               BS 103
                     (seamlessly)
       BS 101
                                               (idle)"
               /
        100
             , MS 112 BS 101
                                                64 - (Walsh)
                                             .
(multi copies)
                                   CDMA
              CDMA
                                     가
MS 112 BS 101
                                    가
                       , MS 112 BS 101
                                             CDMA
                                            , MS 112 BS 101 (inc
omming)
                       (capturing)
           (pseudo) -
    가
```

- 5 -

```
101 112

201, (RF) 205, (downconverter)

(ADC) 215 .RF 205 201 .RF

. 210 .RF - (in - phase)

( ) . I Q
 101
          112
 210,
          /
                                                  - (in - phase)
   (Q)
                             . , 1
0 64 -
   1
                                                  64 -
   1
                                                         (invers
                      . ADC 215 I Q
e) 2
. ADC
                                         220
            215
                       I Q
                                  215가 I Q
                                                        ADC
                 가
                         ADC
                                             가
                                                        220
                                              Q
          - 1
                                 (randomizer) 230, (matched) / 225 , 220 , ,
 101 112
235( " 235"), 240
                      225,
                                                          , A
                                        , 1 0
DC 215 235,
                                 230
   (match)
           I Q
     225
                                235 (matching)
                                                       ΙQ
                                                  225 I Q
     ADC
             215
             가
                                            230
                                                              2
               230
                                     I Q
25
      235
                         225
                                     가
                                                      가
            가
              가
                  1
64 -
                         0
                                         225
                                                          230
                  230
                                        1
                                            0
                          235
230
               1 n
    235
         1 0
                                                  0 . 24
        235 BS 101 MS 112
        215,
0 ADC
                 220,
                        225,
                                   235
                                            , BS 101 MS 112
 3A 3B BS 101
                                    I, Q
                 MS 112
                                                      3B 305
     . 3A 300 BS 101 MS 112
                              300
                                                       300 1
     0
                         . 가
    - a
                    0
                Τ
                                              BS 101 MS 112
                          300
                                   300
                                              1 0
```

- 6 -

(

64

505).

•

, 3B 305 가 Τ 300 305 305 300 4A BS 101 MS 112 400 400 (going) (labeled) , A U T 1 1 A E . 2 T 2 Q U 0 ΚP 3 . 2 0 Т 4B 400 BS 101 MS 112 405 400 405 400 ( 1 0 ( 2 3 , F P 400 I, M, K, O, H, F, P, N, J, 405가 405 400 405 가

Q

Μ

"N"

215

220

, ADC

```
, 225 1 ( 1)
                                         220
                                                           1
                                                                       1
                                                     240
       510). , 225
(
                            0 (
                                         0)
                                                     220
                                                                       0
                                                                  240
                      515).
              (
             1 0
     225
                                                       235
              520).
      (
                         가
      (
              530).
      가
                                  230
                                                     0
                                                        (
                                                                525
                                                                     535).
       225
   225
             235
                         가
                                                      1
                                                            0
                          540).
                    (
      가
                      235
                                                              (
                                                                   545
                                                                          550).
      가
                                                1
                                     230
                                                           (
                                                                   535).
                                                                           22
5
                              가
          535, 540,
                      545
      가
                                    Eb/No
       (1) CDMA
                                                     , (2)
                               , (3)
         , (4)
                              (potential)
                          (CDMA)
        가
            Eb/No
                  Eb/No
                                                              (de - spreading)
           k
 (template)
          (de - spreading)
       가
               가
```

- 8 -

- 9 -

7.

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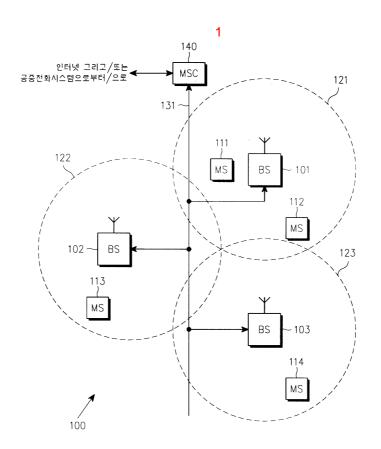
- 10 -

, 1 1 0 2 ,

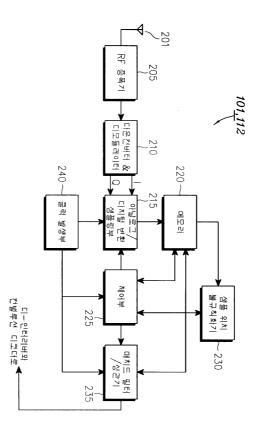
, 1 1 2 1 0 1 0 2 22. 21 , 가 가 23. 21 , 1 1 2 1 24. 21 , 1 0 2 0 25. 21 , 1 1 2 0 , 1 0 2 1 26. 21 , 1 2 0 1 2 1

.

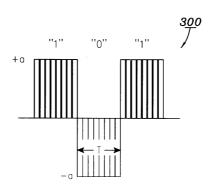
- 12 -



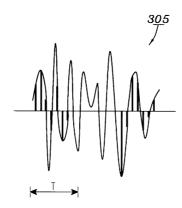
2



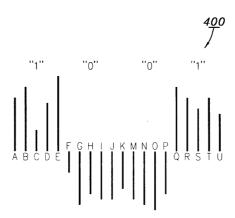
За



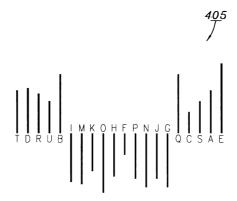
3b



4a



4b



5

