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(71) 600 ( : 07974-0636)

(72) ,60187, , ,2313

,07869, , ,38

,07960, , ,48

,08854, , ,141

(74) :

(54)

ransceiver stations) , (wireless communication system) (active set base t  
(pool),  
(mobile)  
(serving)  
(target base transceiver station) (hypot  
(signal  
(pilot signal)  
(confidence metric)  
(in q  
uesion)

1

2

3

(switch detection supervision)

( )

( )

(cellular communication systems)

(boundaries) 가

(mobile equipment)

( , /

)

(base transceiver station : BTS)

(base transceiver station)

(base station controller : BSC)

(non-base)

(personal digital assistant : PDA)

(textual information),

(gaps)

가

(procedure)

(code di

vision multiple access : CDMA)

(frequency division multiple access : FDMA)

(time division multiple access : TDMA)

. CDMA

(soft)

(forward link)  
(reverse link)

가

(bodies)

가

( , )

CDMA 2000 C (CDMA

2000 Release C standard) CDMA  
(Forward-Packet Data Channel : F-PDCH)

F-PDCH  
F-PDCH

(resume).

(carrier to interference ratio : C/I)

(cdma 2000 C ) ( , C/I ) . C/I  
, C/I가

C/I

), , 가 ( ,

CDMA

CDMA

20 msec (duration) 가  
1.25 msec . 20 msec  
C/I

16

4

15

C/I . C/I

가

C/I (tracking).

C/I가  
(good candida  
(dynamics)

가  
te)

CDMA

가

가 (likelihood)

C/I가

(wait)

CDMA

cdma 2000 (evolution)

cdma 2000 C , CDMA , cdma 2000 C PN(Ps eudo-Noise) (cover code) (sp reading code) (walsh code) PN 가 (sinusoidal) ( PN ) CDMA (change) 15 1 (normal transmission) (non-switch frames) . cdma 2000 C (Reverse Channel Quality Indicator : R-CQICH) (radio signal)(PN C/I 1 4 8 . C/I 6 가 cdma 2000 C cdma 2000 C ( , - ) ) 20 msec (14 1 ( , 13 ) . C/I 4 가 ( , 가 ) , - R-CQ ICH 가 , 20 ms (directive) C/I II) H - (cell re-selection) (R-CQICH) , BTS BTS BTS BTS (data ca F-PDC (action) ) 1 - , B (CQICH A ) (CQICH/ 1 4 ) . C/I ( , A ) . (gain) A C/I 1 15 A (Walsh Spreading Function) . - 15 (differential) C/I A A C/I A C/I

A (14 15) B  
 (+1) 13 C/I 13 A C/I  
 1-13 (interruption) A B가 2 1 B  
 4 C/I 2가 C/I 15 B B C/I  
 B 15 C/I B C/I 1  
 (1 16 ) (release) (ability) 가

BTS  
 (i) BTS BTS ( )  
 (ii) BTS F-PDCH  
 R-CQICH 가 - - (or-of-the-downs rule) (obey) , BTS  
 (reception) (guarantee) , (non-co-lo  
 , cdma 2000 C  
 cated) BTS 가

( )  
 (pool)  
 / , / , / /  
 (inte  
 ntion)

가 R-CQICH (joint decision)  
 ( )  
 가 (outer-loop targets)  
 가  
 (hypothesis  
 ) 가

(cyclic redundancy check : CRC)

(determining operation)

(decisions)

/

/

(clarity)

(

가 ) (in duration) 20msec 16

cdma 2000

C CDMA

가  
가

, 8  
cdma 2000

C CDMA  
CDMA

, 6 cdma 2000

C

20 ms ( 20ms ) (i) (ii) SNR, (iii)

) 가 )

가

R-FCH R-DCCH

가

. BSC가

(false-detect),

(supervision procedure)가

(softer-only handoff)

가

BTS

2

3

(BTS)

BTS,

BTS,

2  
가

, - BTS

. BTS  
(BSC)

BTS

. BS

C BTS

(CRC)  
(R-DCCH)

. 2

, BTS

(R-FCH

)

BSC (soft-combination) BTS  
 , BTS BTS BTS  
 , BSC BTS BTS BTS  
 , BSC BTS 2 B  
 가 BCS , BSC BTS , BSC BTS  
 TS , BSC BTS , BSC B  
 2 , BTS ,  
 , BTS  
 , BTS  
 , BSC가 BTS , BSC  
 BTS , BSC 가 BSC , BSC  
 , BSC 가 BSC  
 , BSC 가  
 BTS 가 / , BSC BTS - 가  
 ( ) BTS , BSC 가  
 BTS ( ) BTS ( )  
 BTS 가 가 , BSC (poorer) 가  
 가 BTS 가  
 H) , BTS CRC (R-DCCH) , (R-FC  
 , BTS (i) (+1) , (ii)  
 / BCS 20 ms  
 , BTS SNR / / 가  
 3 BSC가 , BSC BSC  
 BTS 가 ( - R-C  
 QICH ) BTS BSC  
 BTS (No serving BTS message) , BTS  
 BTS - BTS (non-serving BTS mode) , BTS  
 (full) / 가 ( /  
 ) 가 / 가  
 , BTS , BSC  
 BTS

BTS

BSC(

) 가

$r_l$  (complex valued correlator outputs) BTS R-CQICH  $r_l$

$r_{lij}$  BTS  $i$  R-CQICH , B

가 , BTS ( )

$l_{ij}$  BTS  $i$

$w_m$  8- BTS

$b_k$  ( )  $2 N_s$  가  $N_s$   $k$  가

$K'$  가  $K$  가

$b_{kj}$   $b_k$   $j$

$w_{ms}$

$$\eta \leq \frac{\max_{k \in K, m \neq s} L(\{r_l\} / w_m, b_k)}{\max_{k \in K'} L(\{r_l\} / w_s, b_k)}$$

BTS (subscript)  $s$  BTS 가 (likelihood ratio test) BTS

가 (additive noise) 가 (Gaussian) 가 , 가

$$\eta' \geq \min_{k \in K, m \neq s} \sum_l \frac{\|r_l - \hat{\alpha}_l w_m b_k\|^2}{\sigma_l^2} - \min_{k \in K'} \sum_l \frac{\|r_l - \hat{\alpha}_l w_s b_k\|^2}{\sigma_l^2}$$

$$\eta' \geq \min_{k \in K, m \neq s} \sum_{i,j,l} \frac{\|r_{lij} - \hat{\alpha}_{ijl} w_m b_{kj}\|^2}{\sigma_l^2} - \min_{k \in K'} \sum_{i,j,l} \frac{\|r_{lij} - \hat{\alpha}_{ijl} w_s b_{kj}\|^2}{\sigma_l^2}$$

$N$  ( $N - 1$   $N_s$  ) , BTS 가 가  
BTS BSC

가

(true scope)

(57)

1.

(pooling)

2.

1

(hypotheses)

(confidence metric)

가

(cumulative value) 가

3.

1

(signal-to-noise ratio)

가 (weighting)

4.

1

가 (weighting)

1 5.

(quality indicator) ,

(poorer)

가

가

가

6.

(network entity) ,

ng)

(pooli

7.

6

가

가

8.

6

가

9.

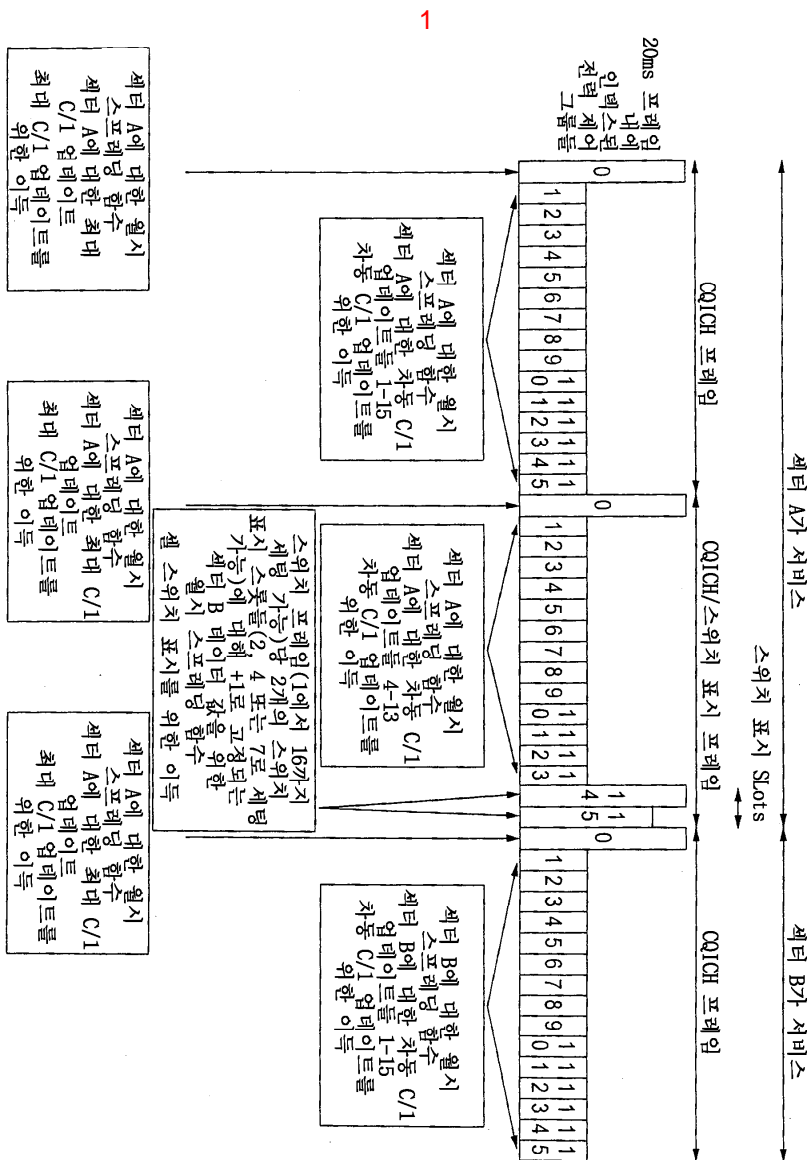
6

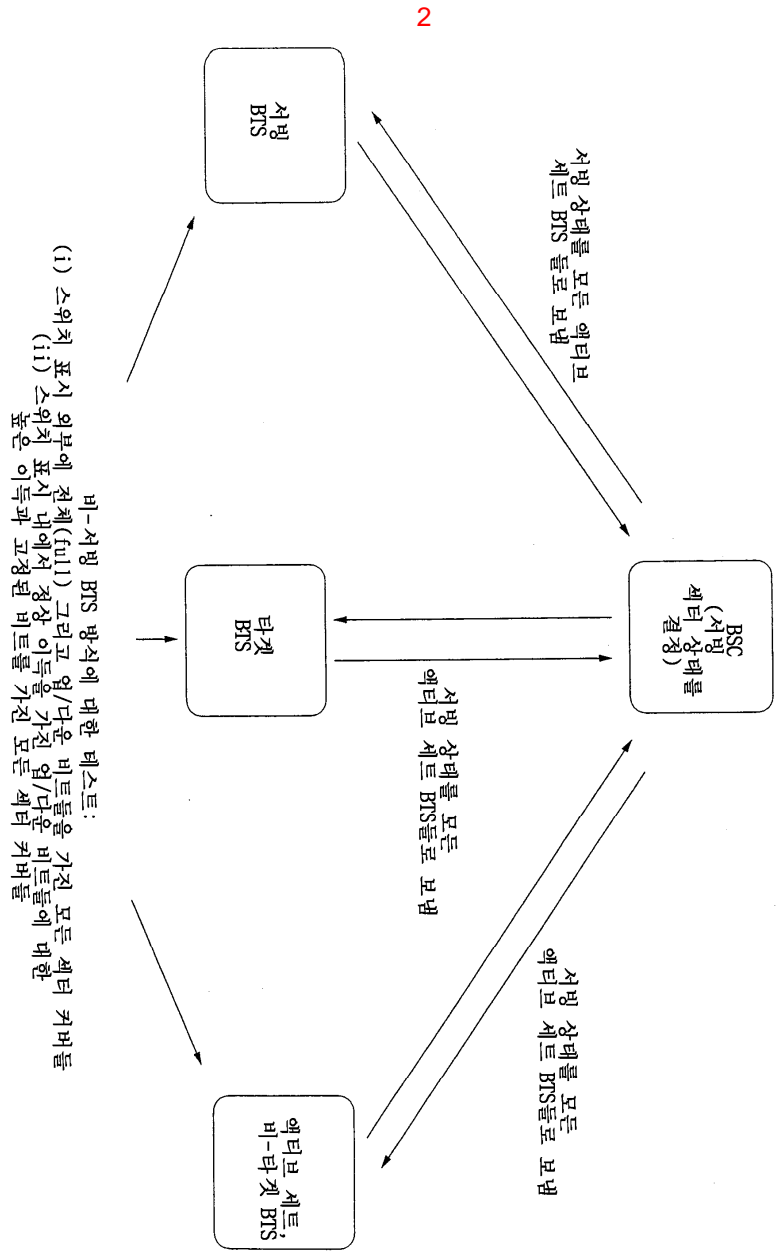
가

10.

6

(poorer) 가 가





3

