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(21) 10 - 2001 - 0073296
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(71) 600 (: 07974 - 0636)

(72) , 08857, , 26

, 07726, , 22

, 08510, , 34

(74)
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(54) -

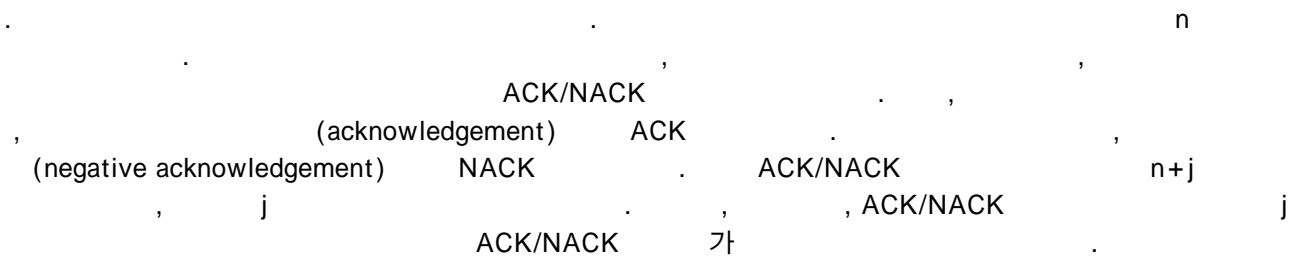
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1 .
 2 , -
 3 , -
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 100 :

n In A Wireless Communication System)" 09/725438 " (Rate Adaptatio

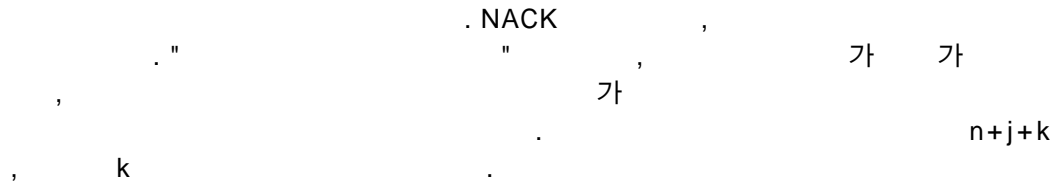
3G - 1x EVDO (Data Only Evolution) , 3 CDMA (separate forward links) 가 (pilot signal) SIR 가 SIR 2 12 dB - 2 dB , SIR 2.4 Mb/s 38.4 Kb/s 가 , 3G - 1x EVDO 가 , 가 SIR 가 . 3G - 1x EVDO SIR (fast rate adaptation mechanism) SIR ,

가 가



ACK가

NACK가



/ (repeating)

(puncturing)



(100)

(110)

(rate indication message)

e) (115)

가

(120) ,

- .

(120)

가

(120)

(120)

(140)

ARQ

ARQ()

가 19.2 Kb/s

76.8 Kb/s

가

, 4

, 1

가 38.4 Kb/s

1,536

가

153.6 Kb/s

()

[1]

	7,680	3,072	1,536	768
Kb/s	Kb/s	Kb/s	Kb/s	Kb/s
9.6	38.4	38.4	38.4	38.4
19.2	76.8	76.8	76.8	76.8
38.4	153.6	153.6	153.6	153.6
76.8	307.2	307.2	307.2	307.2
153.6	614.4	614.4	614.4	614.4
307.6	877.7	819.2	614.4	614.4
614.4	1228.8	1228.8	1228.8	614.4
819.2	1536.0	1228.8	1228.8	614.4
1228.8	2048.0	2457.6	1228.8	614.4
1536.0	3072.0	2457.6	1228.8	614.4
2048.0	3072.0	2457.6	1228.8	614.4
2457.6	3072.0	2457.6	1228.8	614.4

(125) , (100) (110) ACK/NACK 가 ACK , (130)
 , (135) , (120)
 가, NACK가

(140) , (135) 2
 - (120) , - 2

, (120, 140) - , (120, 140)

(100) (125) (110) ACK/NACK 가 ACK NACK ,
 가가

ARQ , - (120, 140)
 . 2 - , -
 (100) (210) ,
 (1) . ,

(215) , - , -
 , - / . -

3 (30) . 3,072
 1/5 15,360 , 가 -

,
1 1 - 1 1
- , / ,

2.

1 ,
1 1 - 1 ,

3.

1 ,
1 - , 1 - 1 - , .
2 -

4.

3 ,
1 - 2 - , .

5.

3 ,
1 - 2 - , .

6.

1 ,
1 가 - 가 , 1 1
- 가 가 , .

7.

6 ,
가 1 , 1 - 1

8.

7 ,

1 , 1 - 1

9.

7 ,

1 - , 가 1 - 1

10.

1 ,

가 1 가 - 1 , - 1 -

11.

10 ,

가 1 - , 1 - 1

12.

11 ,

1 - , 1 - 1

13.

11 ,

- 1 , 1 가 - 1

14.

1 ,

1 / , 1 가

15.

14 ,

1 , . 1 가

16.

15 , 1 가 , .

17.

1 , 1 NACK 가 , -

2 - 2 2 - / 2 가 , .

18.

1 , 1 - 1 - 1 - 1 -

19.

18 , 1 가 - , .

20.

19 , 2 가 , 2 - 2 - 가 ,

2 , 2 1 - 2
- 가 , .

21.

1 ,
1 1 ,
1 - 1 - 1 -
1 - 1 - 1 -
1 - 1 -

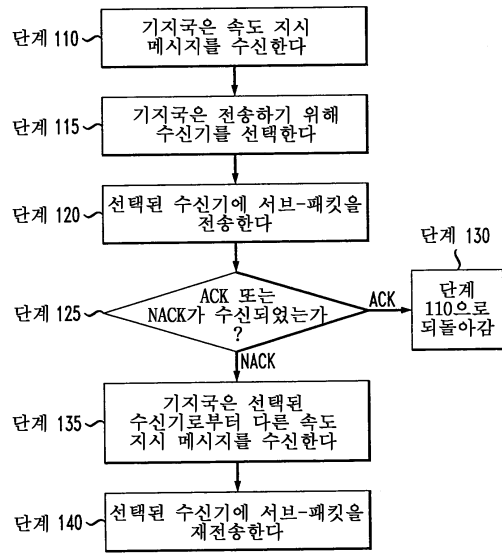
22.

21 ,
1 - ,
가 ,
1 - ,
1 - ,
1 - .

23.

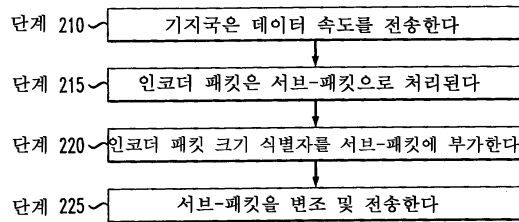
22 ,
2 가 ,
2 - 가 , 2 - - 2
2 , 2 가 - 1 - 2
- 가 , .

100 ¹



2

200



3

30

