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(30) 09/834,774 2001 04 12 (US)

(71) 5775 (92121-1714)

(72) 92130 12970

92103 #3 3700

(74)

:

(54)

(PF)(24)가 (RRI) (18) ,
(QOS) ,
(DRR) , (C/I) ,
(PF) , PF
T'=(T') .

08/963,386 'METHOD AND APPARATUS FOR HIGH RATE PACKET DATA TRANSMISSION' . 1997 11 3

[illegible]

, PF
 , PF
 (PF)
 PF
 , PF

(QOS:Quality Of Service)

- (non-zero buffer under-runs)

(DRR)

(PF)

PF

(C/I)

(truncated)

가

가

1 (16) (12) (10) (14)

(16) (14) (12) (16)

(16) (12) (14) (16)

(16) (16) 가

2 (10) (16) (18) 20 'N'

(10) (pool) (16), 24

22 'M' N 'O' , PF M

. PF :

$$PF(j) = \frac{DRR(j)}{T'(j)}, \quad j=1, \dots, M \text{ 에 대해서} \quad (1)$$

[illegible]

$$T'(j,n+1)=(1-\beta) \cdot T'(j,n)+\beta \cdot DRR(j) \quad (2)$$

$$\frac{QOS}{(DRR)} = \frac{QOS}{DRR(1)} \cdot \frac{DRR(1)}{DRR(n)} \quad (16)$$

가 (10)

(j) (T'(j))

1 (j) T(j)

(DRC) DRR

C/I (12) DRR (12) C/I

C/I C/I

가

가 (16)

34 $K < M$ 36 M, N

T' $i=1, \dots, (M-K)$ 3

$T'(i, n+1) = (1-\beta) \cdot T'(i, n)$ (3)

PF

'0' 가

PF 26

PF

(16) (16) 가 가

1 3 PF PF 가 가 1 가

3 (12) (16) DRR C/I (12) (16)

2) (16) (BSC)() (backbone traffic)'

(12) (16)

4 (12) (12) (16) (12) (16)

(40) (40) (16) BSC()

() 가 (42) (10) N, =1, ..., N

ID() PF

가

PF (42) (16) DRR() PF (42)

1 (j=1, ..., K) PF(j)가 (46) (46) PF(j)

A IN) (48) (46) (48) (DATA OUT) (DAT

가 (50) (50) N

3 (50) (16)

가 M (42) (50)

(IIR) PF PF 가 가

(16) 3km/hr 가 , 5.4Hz (f_{doppler})가

2sec (T_w) 2 3 IIR IIR

() (T_w) , 20msec

1/100 , 50 / :

$$\alpha = \frac{1}{T_w \cdot \left(\frac{\text{frames}}{\text{sec}}\right)} \quad (4)$$

(16)

(monotonic function) $f(T')$, (T') T'

$$PF(i) = \frac{DRR(i)}{(T'(i))^\alpha}$$

가

가

가

가

가

, DSP(Digital

Signal Processor), ASIC(Application Specific Integrated Circuit), FPGA(Field Programmable Gate Array)

가

DSP

, DSP

RAM,

, ROM, EPROM, EEPROM,

가

, CD-ROM,

가

ASIC

. ASIC

가

가

(57)

1.

DRR(rate request indicator DRR)

;

(fairness parameter)() ;
(T') ;
DRR/(T') ;

2.
1 ,

(monotonic function) (T')

3.
1 ,

4.
1 ,

5.
1 ,

6.
1 ,

7.
7 ,

가 '0' 가 ,

8.
(pool) ;

;
1 ;
;

1

9.
8 ,

'0' 1 가 2

.

8 10.

10 11.

1

12.

가 , ,

DRR 1 ;

() 2 ;

(T') 3 ;

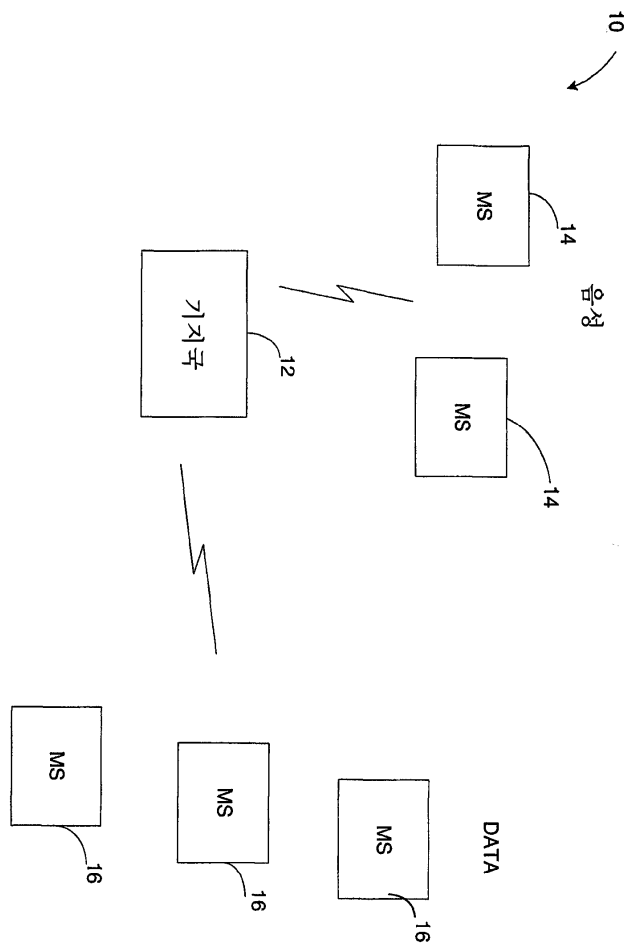
4 , DRR/(T')

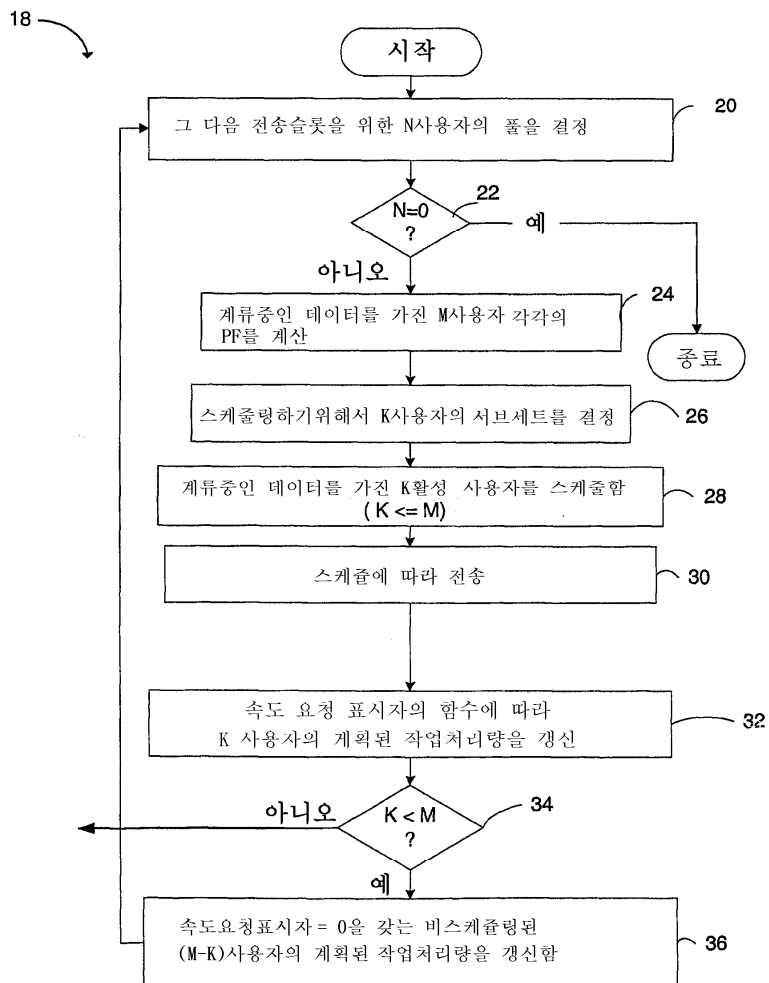
5 .

12 13.

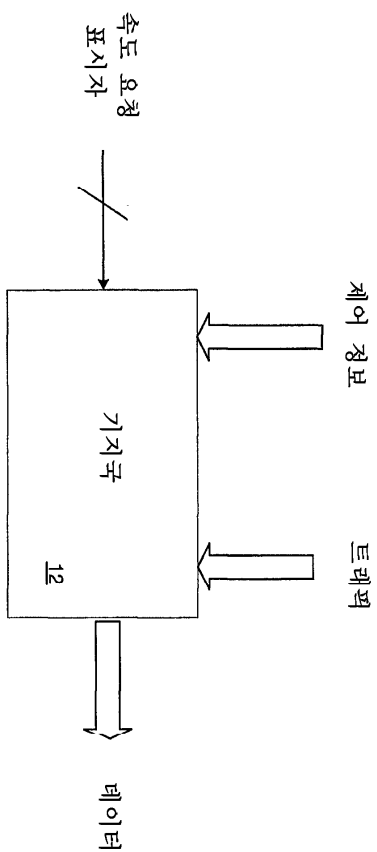
$$\frac{DRR}{(T')}$$

1





3



4

