

(19)  
(12)

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10-2004-0093481  
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WO 2003/084237

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2003 10 09

(30) 02076264.7 2002 03 28 EP(EP)

(71) , , . . 1

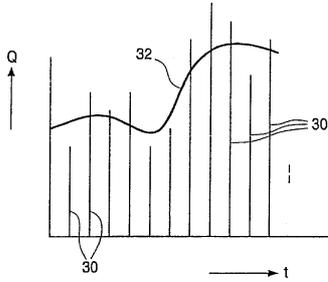
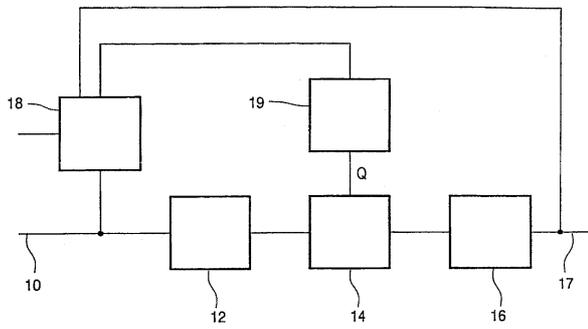
(72) , 5656, 6

(74)

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(54) 가

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, , , , MPEG, ,

(Signal Processing)' 55(1996)pp. 369-374 , W.M.J Coene G.J Keesman ,'  
 MPEG-2 (On performance gains in MP  
 EG-2 video coding via a rate-distortion optimal route)' MPEG

MPEG  
 I(Intra)

P B

(MPEG

가

). 0

DCT(Discrete Cosine Transform)  
 MPEG

0  
 가 (available)

MPEG  
 (set)

Q

, Q

가

MPEG

Q

Coene Keesman

(bit-rate) 가

(I B P P C  
 )  
 (artifacts) 가 (bit rates) (heartbeat effect  
 ) 가  
 on algorithm) (stream) (buffer regulati

(trend)

visionally)

(low pass filtered)

(pro

(elaborations),

- 1
- 2
- 3
- 4

1 (12), (14), (16), (10) (17) (pre-processor  
 (12), (14), (16), (18) (19) (18)  
 (10) (19) (14)

2 MPEG (10) 1 (21) 1 (21)  
 (14) DCT(Digital cosine transform) (12)  
 (14)

2 (22) (18) Qp (14) (1  
 9) Qp

3 (23) (14) (12) (16)  
 가 (16),  
 (17) 4 (24) (16) MPEG  
 (21), (22), (23) (24)

2 (22) (18) (incoming) (18) (14)가  
 Qp (14) Qp  
 (19) (18) Qp  
 (17) (18) Qp (18)  
 ) Qp

14) (18) (19) Qp (19) ( ( )  
 Qf Qp (14) /

2 가 / (lookahead) 가 /  
 Qf

3 (18) (19) Qf (30) ( )  
 3 (19) Qf(32)가 Qf (32)  
 Qp

Qp Qf  
 Qf가 Qp(30) Qp  
 Qp Qf가 가

Qp 가 Qf가 가

(19)

2 2 1 2 3 1 3 1

2 2 1 2 3

MP

EG

1 (19) 가

가

Qf / (deviations)

가

가 MPEG

Qp Qf MPEG 가

Qf

가 , MPEG ( , 가 가 )

가 가 가

CD, DVD SACD (master)

(stamper)

4 (46), (40), (48) (44) (46) (49) (40), (requantizer)(44), (48) , (44)

(49) (44)

(40) (44) (46) (44)

(49) (46) (repackage)

(48)

(49) / 1

(18), (19)

1 MPEG

MPEG

, CD

(loadable)

가

(57)

1.

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가

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2.

1

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3.

1

4.

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(provisionally)

5.

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, / 가

5 6.

5 7.

6 8.

1 9. 가

