

(19)
(12)

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(51) 。 Int. Cl.7
H04N 7/26
H04N 7/30

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(43)

10-2004-0093481
2004 11 05

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WO 2003/084237

(86) 2003 02 27

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2003 10 09

(30) 02076264.7 2002 03 28 EP(EP)

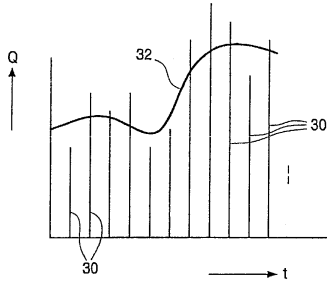
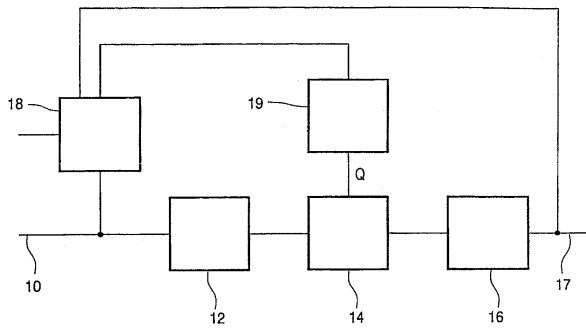
(71) , , 1

(72) , 5656, 6

(74)

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(54) 가



, , , , 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), (18) (19) (18)

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

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

9) (23), (14) (12) 가 (16), (16) MPEG (17) 4 (24) (16) (21), (22), (23) (24)

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

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

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

2 가 / (lookahead) 가 / Qf , /

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

3 , (18) (19) Qf(32)가 Qp Qp Qf

Qf가 Qp(30) , Qp Qf

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 , MPEG

Qf 가

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)

1 2 (40) (44) (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.

1

(provisionally)

5.

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, / 가

5 6.

5 7.

6 8.

1 9. 가

