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2007 11 30
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(43) 2004 08 02
(86) PCT/US2002/038425
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2003 07 03
(30)
10/021,285 2001 12 19 (US)
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JP13218166 A*
US05974224 A1*
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(73)

92648 46

(72)

, ,
46250 7
4 5175

(74)

, ,

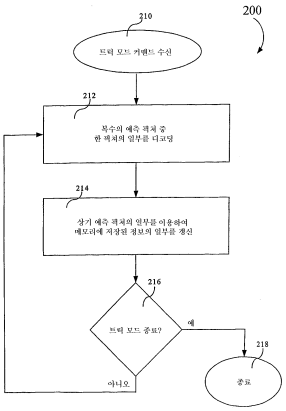
: 20 :

(54)

(57)

(200)

(100) . , (a)
(212); (b) (214)
. , , (116)
(a) (b)
. , ,
MPEG .
- 2



1

(a plurality of predictively encoded pictures)

(trick) ,

(a) ,

;

(b) ;

(c)

(a) (b)

.

2

3

1 ,

.

4

1 ,

.

5

1 ,

(b)

.

6

5 ,

,

.

7

6 ,

,

MPEG .

8

7 ,

.

9

1 ,

(fast motion) 3X .

10

1 ,

.

11

10 ,

.

12

,

;

,

,

(a) ,

,

(b) ,

(c)

(a) (b)

.

13

14

12 ,

.

15

12 ,

.

16

12 ,

.

17

16 ,

,

.

18

17 ,

,

MPEG .

19

18 ,

.

20

12 ,

3X .

21

12 ,

.

22

21 ,

.

[0001] , ,

,

.

[0002] MPEG , , (I) , (P) (B)

. I . P B

, (non)-I .

[0003] , MPEG I . , U.S. I

MPEG . , , P B I

.

[0004] , P I ,

I MPEG . , I

P P

. , P , P 20 I

. , 1 P 20 I 80

P . 2 P , 20

20 I , 60

20 P . , P I

. , P 20 I .

[0005] P P , I P

. , P , I P .

, 5 P , P B

.

[0006] I ,
. P . ,
1 P I 1 . , 1
P B , 1 P 20
. , , P ,
P I P
. ,
0.5 1 .

[0007] , , P
. , (fast forward) (fast
reverse) , . I P
, P ,
. , I P

, P
. , ,

.

[0008] . ,
(a) (212); (b)
(214) .
,
(116)
(a) (b) (216)
. , .

[0009] , (b)
. ,
. , ,
MPEG . ,
. ,
3X . ,
.

[0010] ,
. , , (116); (120) ,
, ,
.
.

[0013] (100) 1
. ,
, 1 . ,
(100) , (100)
.

[0014] (100) (110) (112)
. (100) (118) .

(118) (114), (116) (112) .
(118)
. , (118) .
(118), (114) (112) (120)
.

[0015] , , (112) (110) P
. P I P
. , I ; ,
I , .

[0016] (114) P P . P
(116) , (116)
. , (114) , P
. (116)
. .

[0017]

[0018] 2 P
(200) . , -
- .

[0019] (210) , . P
. , I
, P I MPEG ; ,
I MPEG
.
. (212) , , , P
P .

[0020] (214) , P .
I, B P P
. , ,
. , ,
.

[0021] , P .
, P
. , P 20 % (20%)
, 20 % (20%) .

[0022] , P I
. , , P 20 % I
, I 20 %
. P B I
, I ,
. , ,
. P
, .

[0023] (200) , (216) , , (212)
. , , (212 214) P

. , P
. P . ,

, P . ,
, (212)
. , (200) (224)
.

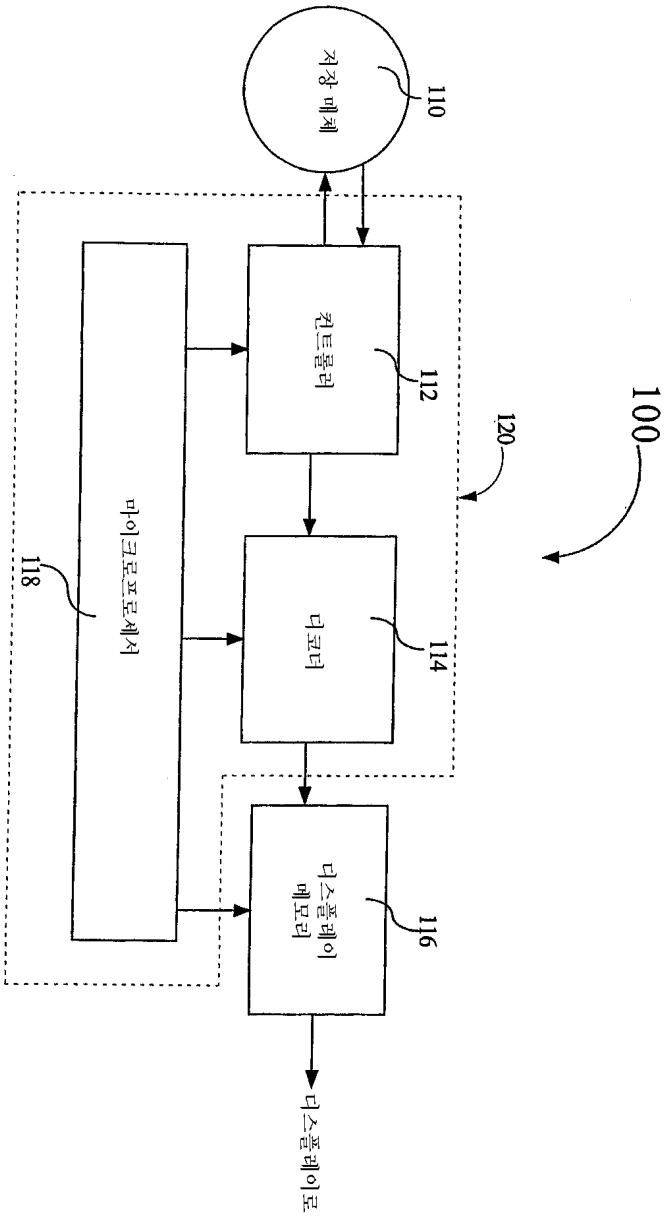
[0024] , 3X (1X) ,
. , 3X
, B 3X
, P P
.

[0025] ,
.

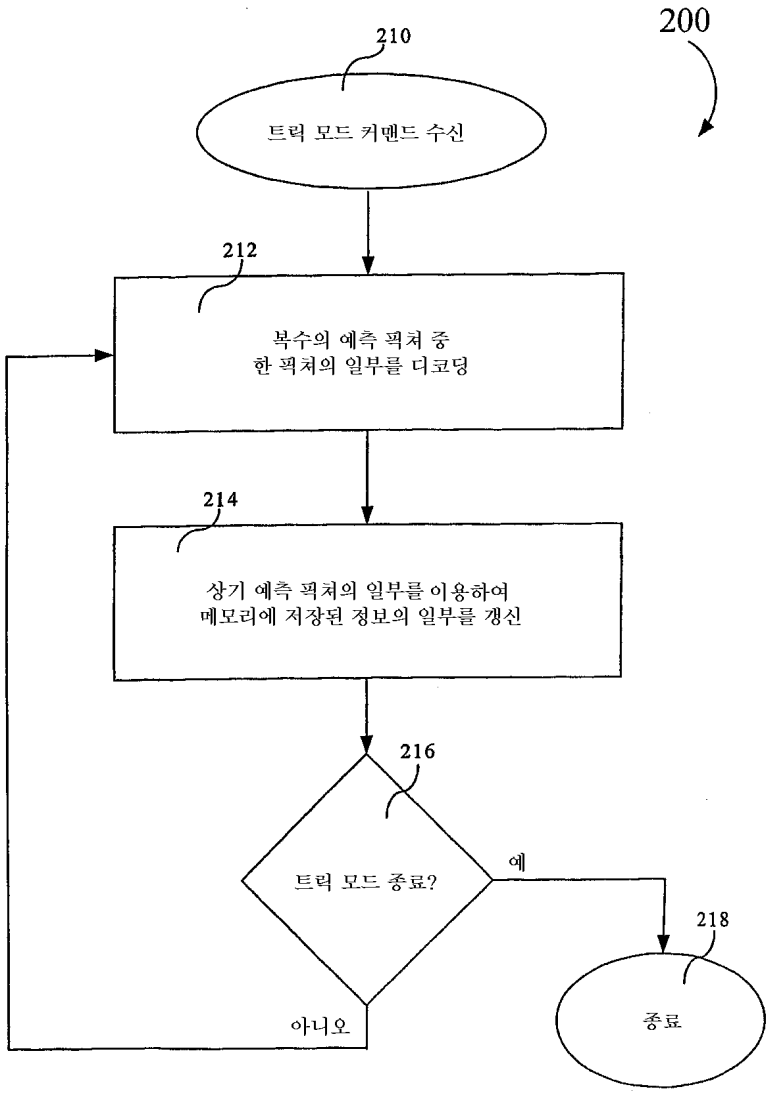
[0011] 1
.

[0012] 2 .

1


100
120
저장 매체
110
컨트롤러
112
디코더
114
디스플레이 메모리
116
마이크로프로세서
118
디스플레이로

2


200
210
트릭 모드 커맨드 수신
212
복수의 예측 픽쳐 중
한 픽쳐의 일부를 디코딩
214
상기 예측 픽쳐의 일부를 이용하여
메모리에 저장된 정보의 일부를 갱신
216
트릭 모드 종료?
예
218
종료
아니오