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3 301 1204

(74)

(54)

1

, SAD,

1

2 1

3 2 SAD ,
4 2
5

100a ~ 100n : 110 : SAD

111 : SAD 113 : SAD

115 : SAD 120 :

121 : 123 :

125 : 가 130 :

140 : 150

140 : 150 :

300 : 350 :

(deinterlacing)

가

n) . , (interlace scan) (progressive scan)
 bottom , upper lower , odd even TV , , , , top
 , (non-interlaced scan) , TV ,

ation) 가 . , , 가 ,
가 . , ,

,
(spatial interpolation) ,
(temporal interpolation)

가

5,777,682 (Motion-compensated interpolation, : 1998 7 7)

5,027,201 (Motion detection apparatus as for an interlace to non-interlace scan converter, : 1991 6 25), 5,159,451 (Field memory expandable line doubler for television receiver, : 1992 10 27) .

가 (block artifact)가

2 , 가

가

, , 가 2 1 . SAD 1 , 1

2 . , , SAD 가
SAD

1
n compensation assistant part) (100a~100n), (150), 1, (200), 2 (250),
(spatial interpolation part)(300), (350).

,
 $(V1 \sim Vn)$ 가 가
 $n),$ (B1~Bn),
 $(C1 \sim Cn)$.
 $(100a \sim 100n)$,
, SAD(Summed Absolute Difference) (A1~A
(motion compensated temporal interpolation)

(150) (100a~100n) SAD (A1~An) ,
 (100a~100n) 1 2 (200, 250)

(S310).

(350) 2 (200)
 , 2 (250) 가 ,
 가 ,

(300)
 (S315). ,
 가

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 , , , , ,
 가 , , , , ,
 , , , , ,

, , , , ,
 , , , , ,
 가 , , , , ,
 , , , , ,

, , , , ,
 가 , , , , ,
 가 , , , , ,

(57)

1.

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 ; , , , , ,
 , , , , ,
 2 , , , , ,

1

2

가

;

2.

1 , , , , ,
 , , , , ,

가

3.

2 , , , , ,
 , , , , ,

, , ,
 SAD(Summed Absolute Difference)
 가

SAD

가

1

4.

3 , , , , ,
 , , , , ,

, SAD ,

2

SAD , ; 1 가 .

5.

4

SAD

1

2

6.

5

SAD

SAD SAD SAD SAD

SAD SAD SAD - 2

SAD SAD ;

7.

5

,

, 가

8.

4 ,

$$1 \qquad \qquad \qquad 1 \qquad \qquad ;$$

가 2

SAD

, SAD 가 SAD

10.

(a)

, ; 1

(b)

, 2 ;

(c)

1 2 가 ;

11.

10 ,

(a)

, 가 ;

12.

11 ,

(a)

, SAD , , SAD 1 가 가 ;

13.

12 ,

(a)

, ;

(a1)

, SAD , ;

(a2) (a1)

SAD , ;

14.

13 ,

(a1)

, ;

SAD

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;

;

15.

14 ,

SAD

;

SAD ;

SAD ;

SAD

SAD

;

16.

14

,

,

;

,

;

17.

13

,

(a2)

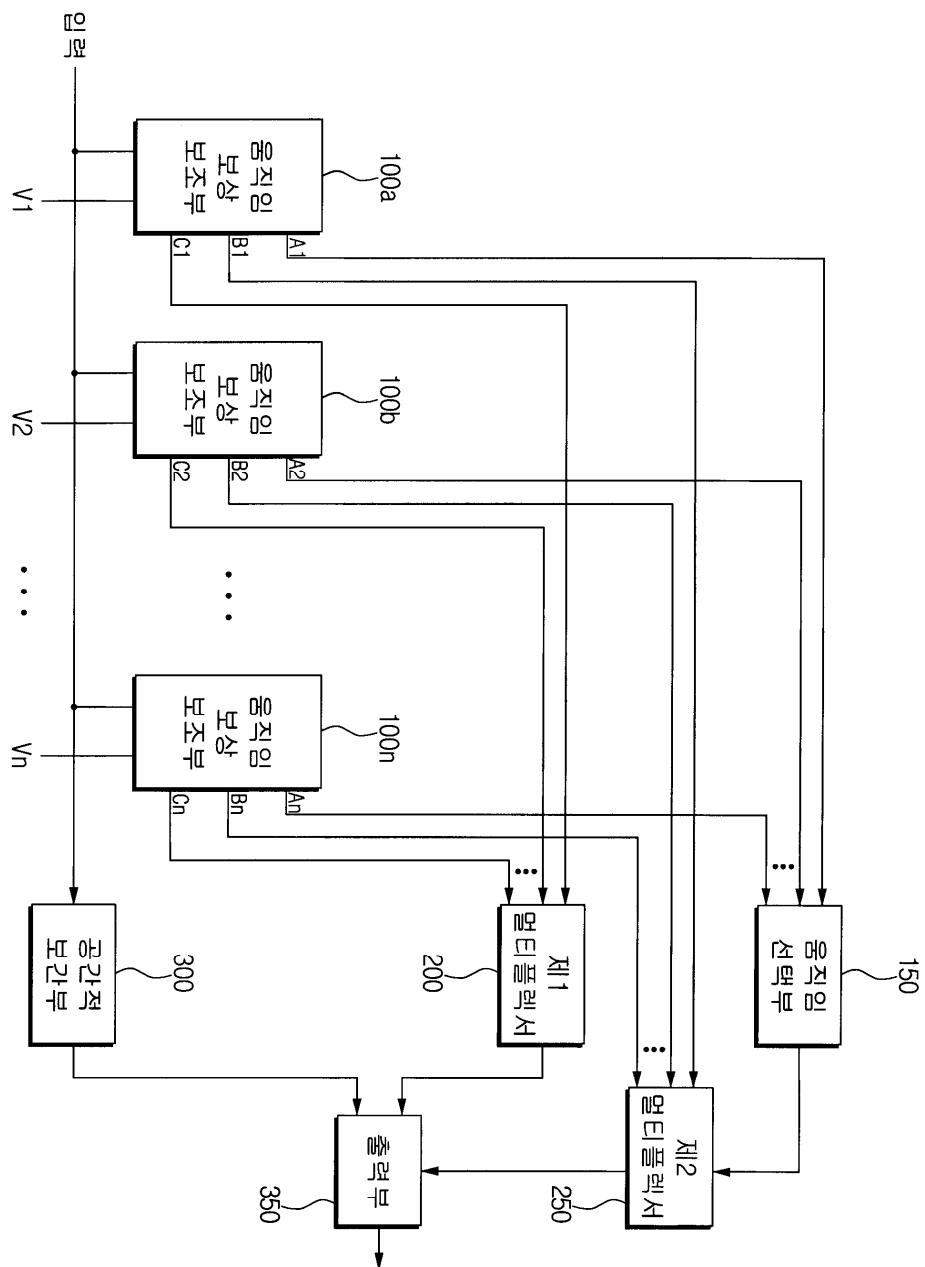
,

SAD

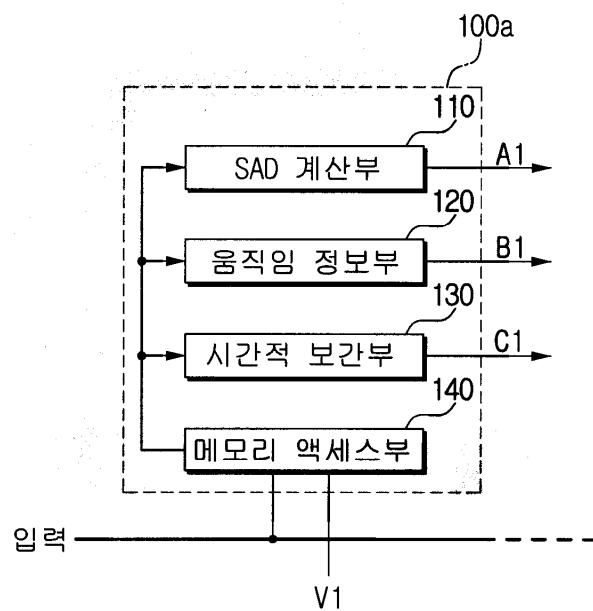
가

SAD

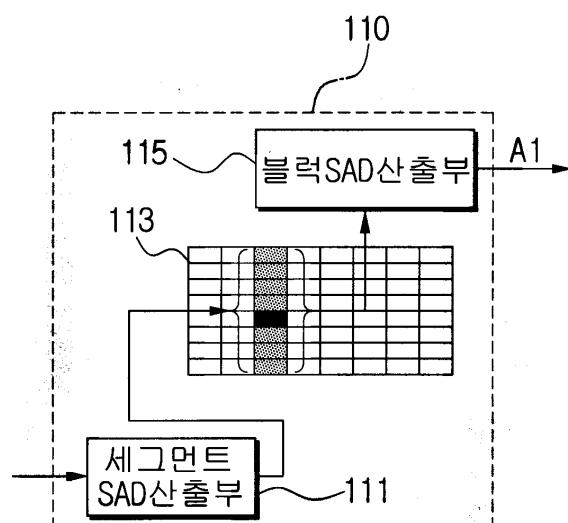
1



2



3



4

