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(22) 1993 12 09 (43) 1994 07 27

(30) 92203879.9 1992 12 11 EP(EP)

(73) . . .
. . . , , 1

(72) , , 1
, , 1

(74)
:

(54)

(mapping) , 가 , ,
 , PC ,

1	2	1
3	4	2
5	6	3

*

20 :	30 :
50 :	104 :
122 :	148 :

가 ,

4,876,600

(raster graphic generator)

, TV ,

(dual - ported buffer)

(storage)

가

(handling)

(selectivity feature)

1 가 .

TV

$$\left(\begin{array}{ccc} & & \\ & & \\ & & \end{array} \right) ,$$

(JPEG),

가

(MPEG),

(PAL, NTSC, SECAM, D2MAC, HDMAC, YUV, Y/C, RGB, RS170A, RS330),

PC

가

가

가 가
(modular approach)

가

가

가

(modular architecture)

(colour key)

가

(phosphor)

(gamma - correction)

가

(modularity)

가

가

가

가

가

가

tm

PC

가

1 6
ln)

(grey level)

(I1 - In)

(I1 - In)
(mapping) .

가 (l1,l2,...,
가 . (l1 - ln)

, TV, VCR, , ,
(JPEG), (MPEG), (PAL, NTSC,
SECAM, D2MAC, HDMAC, YUV, Y/C, RGB, RS170A, RS330)
(synthesizer)

1

1 (100) 1 (100),
가 (I1 - In) - - - (multip
le - source - multiple - format, MSMF)(10)
(20) . MSMF(10) (30) (30)
- (50) PC(40), 가 (60)
. PC(40), , VGA RAM (70)

2 MSMF(10) . MSMF(10), , (102),
(104), (106) (108) PC(40) , (102)
(I1 - In) . MSMF(10)
(104)
(106)
(20)

(102) (I1 - In) , (110,112,...,
114) (I1 - In) MSMF(10)
(I1 - In) (116,118,...,120)
(122) (116 - 120) (104)

(116 - 120) DRAM - , VRAM - TVRAM - ()
. 가 ,
() , ()
. 가 ,
(time - skewing)

(116 - 120)
. DRAM , VRAM(RAM) TVRAM(3 VRAM)
, VRAM
. VRAM TVRAM - RAM DRAM 가
. VRAM
VRAM . VRAM

(reload) . VRAM
 . TVRAM
 2() (shift register) .

(116 - 120)
 , 1 , 2 TV
 1
 , MSMF(10)

(104) (122)
 , , (124), (126) (128) . (124) (11 -
 In) 가 (mapping)
 (124) (122)
 (124) (122) , (126) ,
 (128) 2 (122) , (122) ,

(104) , DRAM(RAM), VRAM TVRM .
 가 (banks)
 , (126) (128) () 가 , TV
 RM . (124) (126) 128)
 , (124) VRAM DRAM .

(116 - 120) (110 - 114)
 . , (116 - 120) 가 가 .
 가 가
 가 (126) 가 ()
 가 , 가 .

(106) (126) (20)
 . (106) (130,132,...,134) . (13
 0 - 134)
 (126)가 , (128) (130 - 134)

4) , YUV (128) (106) (126) (110 - 11 (130 - 134))

n) YUV RGB (20) (true - color space conversio (128))

(136) YUV/RGB (20)

14) , RGB (128) (106) (126) (110 - 1 (130 - 134))

RGB (20) (phosphor)

(110 - 114) RGB (20) (gamma - correction)"

가 , RGB/RGB

- 114) , (128) (106) (126) (110

(topologic)

(pseudo) - (130 - 134)

(128) (126)

(20)

(colour - look - up - table, CLUT)

(130 - 134)

(DAC) (138) (136)

(20)

2 , (102), (106) (104) (108)

PC(40) (108) / (140)

(140) (142), (144), (146)

(148)

(142) (116 - 120) . 가 , (116 - 120)

(I1 - In) (142)

(104)가 , (142)

(116 - 120) (142)

(148) (106) (148) -

(130 - 134) CULT (20)가

(148) (shade)

" - "

(146) (104) (124) (146)
 (216) (128) PC(40)
 PC(40) (146) , PC(40)
 (126) / (128)

(144) (126) (128)
 (104)가
 (126) / (128)
 (20) (144) , (20)
 가 (140) PC(40)
 (146) (over - write) (104)
 가
 (116 - 120) (116 - 120) (144)
 (116 - 120) (116 - 120)

(144) (122) " (valid)"
 " " (104)
 가 " " , (104)
 , 가 " " ,

PC(40) (clocking) (102), (104), (106)
 (108)

2

3 4 (200) 2 1
 MSMF(10) , (200) (I1 - In) , MSMF(12)
 , PC(40) (210)()
 (I1 - In)

3 4 , PC(40) 1 2 가 , 가 , (I1 - In)
 1 - In) (I
 2 (120) 가 VGA
 , PC(40) VGA(70) 가
 (122) ,
 , (raster scan basis) ,
 (70) 가 , (210)
 (104) , (102)

CLUT() (128) (20) (130 - 134) CLUT , ,
(148) .

3

5 6 (300) 3 가
, 3 (70) 4 (104)
가 (104) , 5
PC(42) VGA (106)
, 가 , DAC(138) DA (20)
(134) .

(104) 6 (30
0) 가 가 (104)
, 가 , .

PC(42) (N+1) 가 가 " 1" ,
N (106)
가 가 " 0" , N 가 (104)

PC(42) RAM(240) (N+1) , N - RAM(242) RAM
(244) . RAM(244) " 1" 가
, RAM(242) (106) . RA
M(244) " 0" 가 , RAM(242) (1
04) (item) (106)

(106) (210) , (104)
(212) (210) (300) (212 214)
(106)
(214)
(216) (210) (212
214) RAM(244) (212)가 (104)
, (214) (106) (210)
, (106) ()
(212)가 (210) (214) (21
6) (106) , (212)
CLUT() (216)
(ageut) , PC(42)

6 , 4 (128) PC(42) RAM(242) , 4
 (124) 4 (122) (246) (128) RAM(24
 2) RAM(240) 1 6
 . ,
 " " (aspect) .
 , (shading)

(57)

1.

가

2.

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3.

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가

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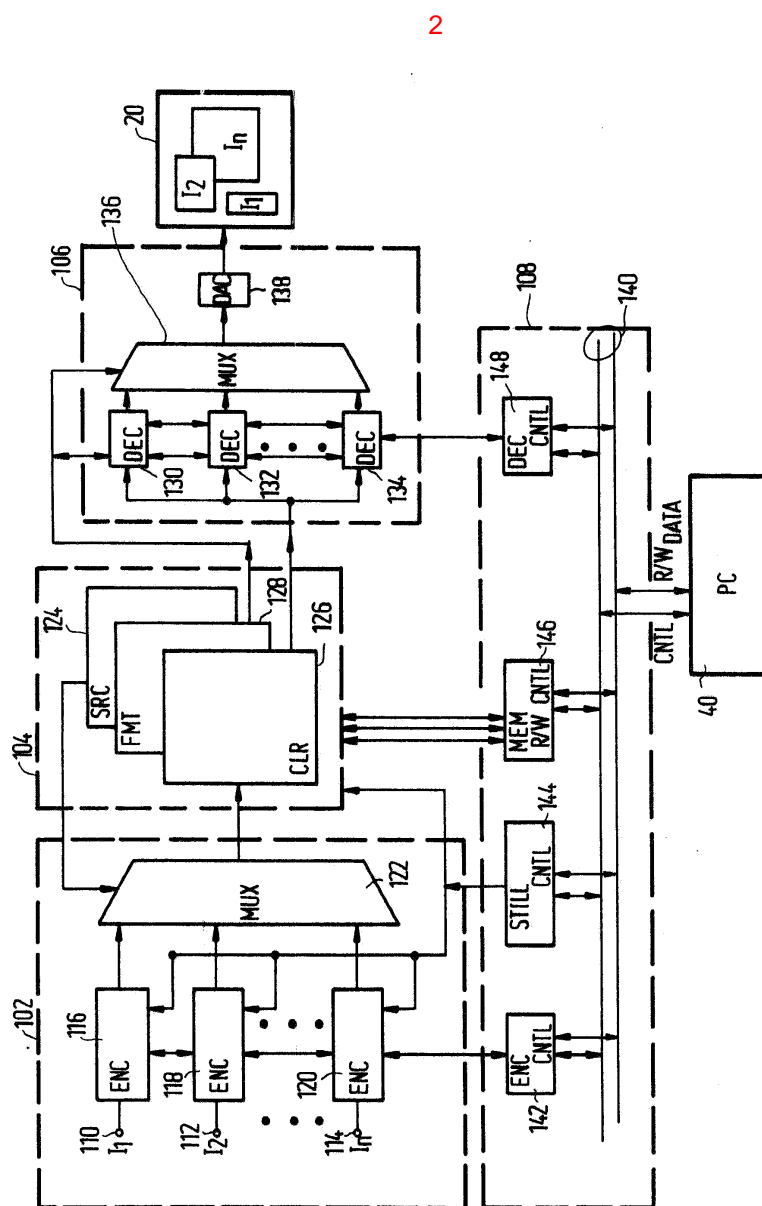
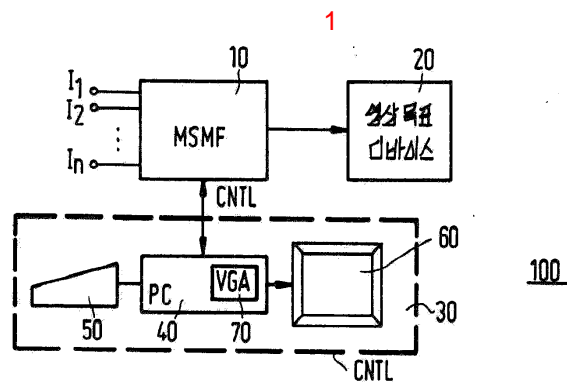
2

7.

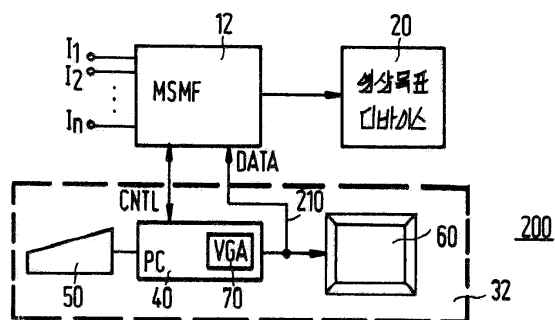
5 6

가 ,

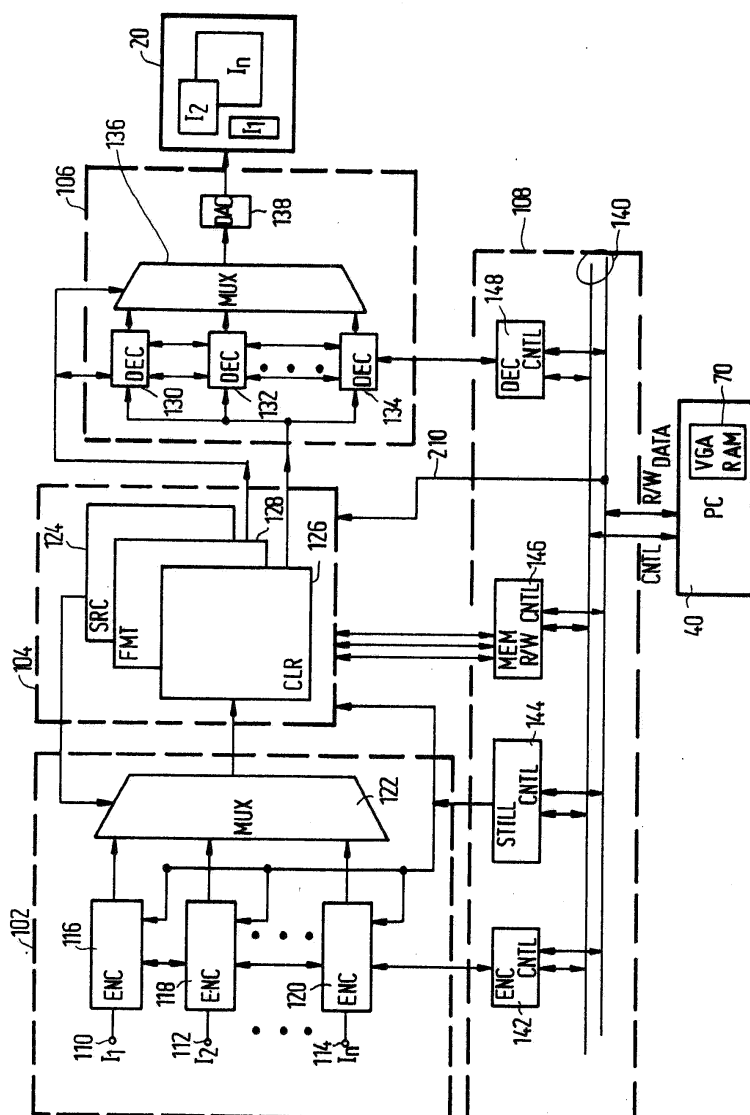
■



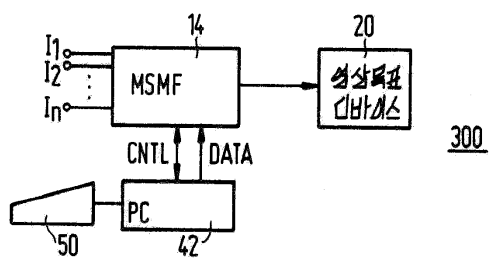
3



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