

(19) (KR)
 (12) (B1)

(51) 。 Int. Cl. ⁶
 H04N 5/225 (45) 2002 02 19
 (11) 10 - 0312928
 (24) 2001 10 15

(21) 10 - 1993 - 0027007 (65) 1994 - 0017746
 (22) 1993 12 09 (43) 1994 07 27

(30) 92203879.9 1992 12 11 EP(EP)

(73) . . . , , 1
 (72) , , 1
 , , 1

(74) .

(54)

(mapping)

, が ,

PC

1

1	2	1
3	4	2
5	6	3

*

20 :	30 :
50 :	104
122 :	148 :

가

4,876,600 . , TV ,
(raster graphic generator)

TV, (, , ,) , 가
., , , (JPEG), (MPEG),
(PAL, NTSC, SECAM, D2MAC, HDMAC, YUV, Y/C, RGB, RS170A, RS330),
PC

, 가

, 가 , 가
(modular approach)

, 가

, 가

, 가

(modular architecture)

, (colour key) 가

, 가

(phosphor) (" - , (gamma - correction))

,
가
(modularity),
,

가
,

가
가
가
,

가
,

tm

PC

가

1 6
In)
(grey level)
(I1 - In)
(I1 - In)
(mapping)
가
(I1, I2, ...,
(I1 - In),

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

1

1 가 (100) 1 (100) . . . , (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)
- (11 - In) MSMF(10) (104)
- (106)
- (20)

114) (102) (11 - In) , (110,112,...,
- (122) (116 - 120) MSMF(10) (116,118,...,120)
- (11 - In) (104)

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

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

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

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

(104) (122)
(124), (128) (11 -
In) 가 (mapping) (124) (126) (20)
, (122) (126) ,
(128) 1 (122)
2

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

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

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

		(128)	(106)	(126)	(110 - 11 (130 - 134)
4)	YUV	.	.	YUV	
n)	YUV	RGB	.	RGB	(20) (true - color space conversio (128)

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

2 , (102), (106) (104) (108)
PC(40) . (108) / (140) (140)
. (140) (142), (144), (146)
(148) .

(148) (106) . , (148) -
(130 - 134) CULT . , , (20) 가
, (148) . , (shade)

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

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

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

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) .

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

3

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

0) , , (104) 6 (30)
 . 가 , (104)
 ,

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

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

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

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

" " (aspect)
 , (shading)

(57)

1.

가

,

,

,

,

,

,

,

,

2.

1

,

,

,

3.

2

,

4.

1 ,

,

가

,

,

,

;

;

,

5.

4 ,

,

,

;

,

6.

5 ,

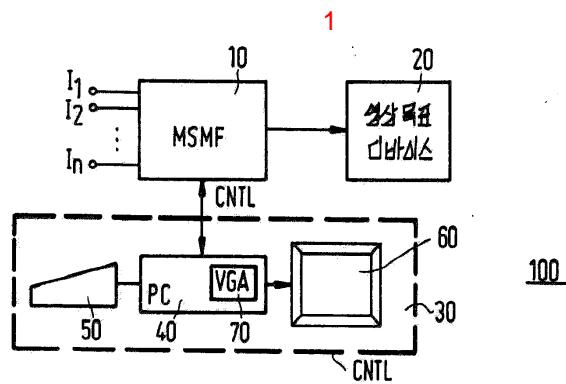
,

2

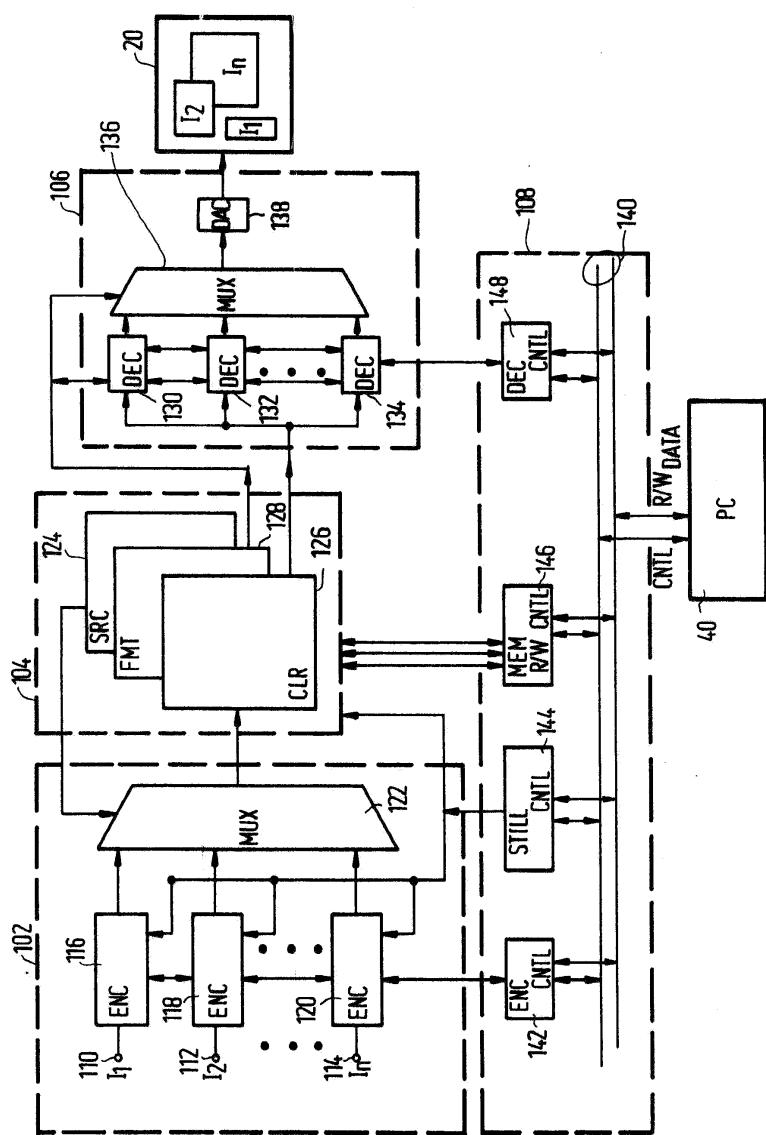
7.

5 6

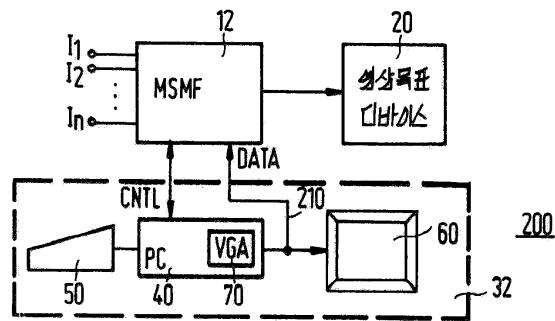
가 ,



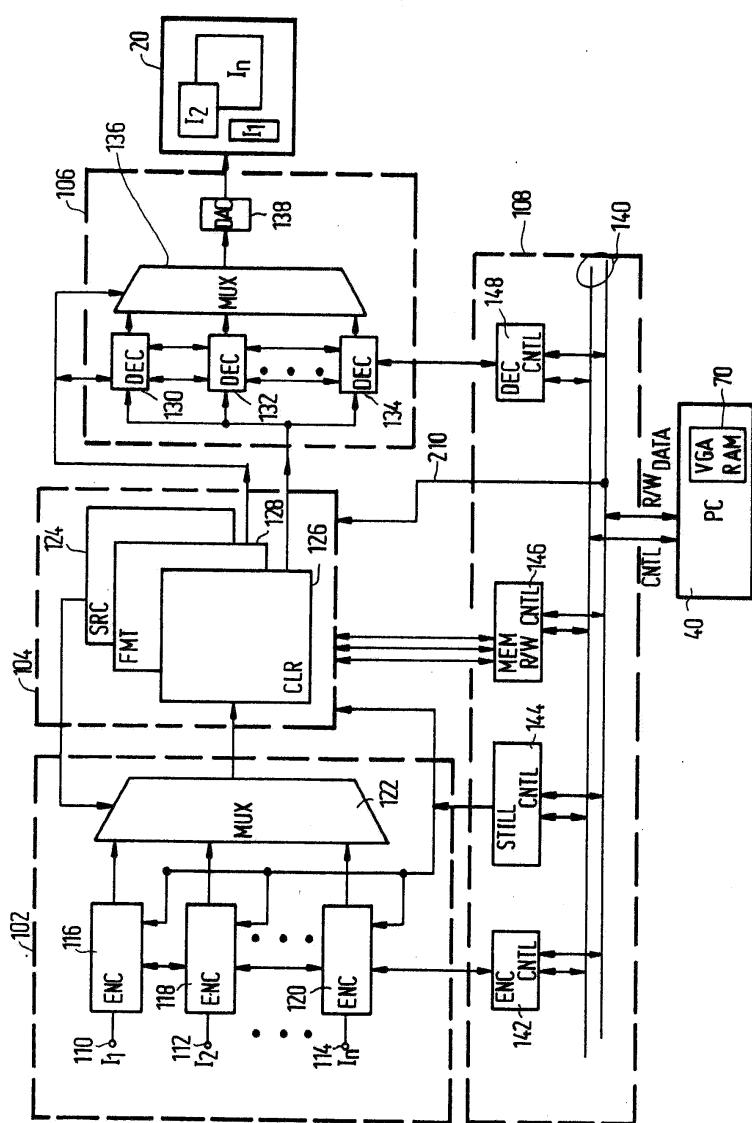
2



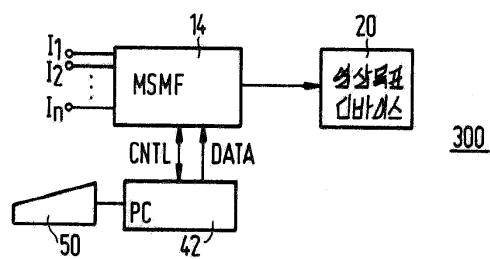
3



4



5



6

