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, PC(Personal Computer)

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가

1 (Mobile Visual Phone) ) 가 (capture) ("MVP"(Mobil (2) , (4) , (8), (4) (8) (6) .

1 MVP , (2) (digital still video camera)가

(10) CCD(Charge Coupled Device)(12) 가 (12) (zoom lens), (focus lens) (iris) MVP (12) 가 MVP

가 (10) 가

(10)

CCD(12) (10) ( ) , CDS/AGC(Corre-  
lated Double Sampling/Auto Gain Control)(14)  
CDS CCD(12) CCD(1  
2) CDS/AGC(14) CMOS (Complementary Metal Oxide Semiconductor sensor)  
. CDS/AGC(14) ADC(Analog to Digital Converter)(16)

가 . ADC(16) CDS/AGC(14) 1 DSP(Digital Signal Processor)(18) . DSP(18) 1 NTSC(National Television System Committee) PAL(Phase Alternation by Line) (Y,C) , (32) (Y,C) JPEG(Joint Picture Expert Group) (20) LCD(" LCD" ) (48) (8) (Y,C) Y , C .

DSP(24)가 (Y,C) JPEG (20) 1 (22) (8) ( ) . DSP(18) 가 MVP (Y,C) JPEG (20) 1 (22) . 가 가 , DSP(18) (Y,C) (8) LCD (24) 3 (26) 가 (24), DSP(18), (44), LCD(48) LCD(48)

JPEG (20) (24) 가 DSP(18) (Y,C) JPEG 1 (22) . (24) 1 (22) DSP(18) . JPEG (20) , 640x480 VGA (Video Graphics Array) 1/8 . 640x480 300KB(Killo Byte) 가 , JPEG (20) 1/8 40KB 가 . 1 (22) JPEG (20) (flash memory) . 1 (22) , ( , 50 )

(24) CPU(Central Processing Unit) , (2) . (4) (32) (4) (34) 가 (32) . (24) SRAM(S tatic Random Access Memory) (24) 3 (28) DRAM(Dynamic Random Access Memory)

1 MVP (4) (32) (4) (4) (2) (6) OSD (40) (8) LCD(48) (36) , (32) "QUALCOMM " MSM(Mobile station MODEM(MOduлятор and DEModulator)) . MSM MSM2000, MSM2300, MSM3000, MSM3100

(34)

(32) 가

3 MVP (a) (b) (c)

3 (a) (b)

, MVP 300 LCD (300)  
(view finder) . 308  
(302,304,306) , 302  
(302) ( , ), (fine,  
normal), (sensitivity)  
. 304 , 306 (302)

MVP ( 3 (a) )

(306) MVP (308)가 (302), (304), 가  
MVP (302,304,306)

MVP 316 ( " / " ) , 318  
( " ) . 314 / (316)  
RS232C 가 PC(Personal Computer) MVP  
PC . 312 / (

, ) , 가 / (312) LCD(48)  
(310)가 MVP 3 (b) (c) 310  
(320)가 (310)

3 MVP (flip type) (folder type)

1 가 , (32) 4 (36) EEPROM(Electically Erasable and Program  
mable Read Only Memory), ROM(flash ROM), RAM(Random Access Memory)  
. EEPROM , RAM  
ROM  
(Radio Link Protocol), CDMA(Code Division Multiple Access)  
가 , 가  
(voice dialing), , PIM(Personal Information Management),

GUI(Graphic User Interface) , E - MVP PPP(Point to Point Protocol) TCP/IP/PPP(Transmission Control Protocol / Internet Protocol / Point to Point Protocol)가 IS - 657 RLP(Radio Link Protocol) , CDMA IS - 95A 800MHz CDM A , J - STD - 008 1.8GHz CDMA( GSM) , IS - 95B 64Kbps 114Kbps

ROM 가 ROM ( , 600 ) 가 (33) (32) (micro phone) MIC RF (30) RF (30) (speaker) S RF(Radio Frequency) (30) (32) RF (33) (32) RF (30)

PC (32) RS232C (38) PC(Personal Computer) 1 (42) (44) (6) (6) OSD(40)

OSD(On Screen Display; 40) (8) LCD PC R,G,B , 8 (42) 가 DAC(Digital to Analog Converter)(41) R,G,B NTSC PAL Y,C (44) (42) OSD Y,C (8) DSP(18) (8) LCD (46) LCD(48) , LCD(48)

2 1 (100) (200) 2 (100) 1 (4) RF (300), (33), (34), 4 (36) 2 (200) 1 (2), CCD(12), CDS/AGC(14), ADC(16), JPEG (20), 1, 2, 3 (22,26,28)

2	3.6V DC/DC	BATT(+) 3.3V	3.6V, 3.3V	4.3 2.8V BATT(+)	가
2	(100) (100,200)가 (150)가	(200)	DC/DC	( )	(100,200)
	(100)	(200)	(100)	(200)	Batt(+)
	(100)	GND	(200)	(100,200)	UART(Un
iversal Asynchronous Receiver/Transmitter)	(32)	(200)	(24)	SD,RD	
SD,RD	(32)	(2)	( )		
SD,RD	(24)	(32)	( 1 34)		
18) , PC	MVP PC	(200)	RS - 232C	(314)가	(3
(318)	CP_CHECK		(24)	GPIO(CP_CHECK)	CP_CHECK
(24)	GPIO(CAM_CTRL)	가	(318)	CAM_PWR_CTRL	
(32)가		(32)가	CAM_PWR_CTRL	CP_CHECK	(24)
(2)		mA	(2)	가	(2)가
(2)	(2)		(24)	가	(318)
(32)	(24)		(2)		
2	(200)	LCD	(46)	LCD(48)	LCD
가	(100)	LCD	가	(204)	(102)가
LCD	LCD(48)			(32)	(32)
1, 2	114 116	1	(114)	1	(114)
가				(44)	(44)
ATT(+)	MUX_PWR	가	2	2	(116)
RL)	(206)	LCD_CTRL	(202)	(206)	(116)
	LCD	(202)	(206)	ENC_PWR	LCD
(206)	(206)	(100)	(42)	ENC_PWR	가
	(206)		(42)		(202)
					GPIO(LCD_CT
					(200)
					ENC_PWR

(206) (200) LCD (46), LCD (202), (44), (100)

1 OSD (106), (6) OSD(40) 2 MPU(Main Processing Unit)(104), (flash memory)(110) 4 (가 )

MPU(104) OSD(40) , OSD (106) DSP(18)  
C\_Sync( Y ) LCD(48) C\_Sync  
LCD(48) PC (font) (110) P  
(108) MPU(104) , ( )

OSD(40) OSD (106) ASIC(Application Specific Integrated Circuit) LCD  
(32) LCD(48) DATA(0 - 7),  
OSD (106) (32) MSM RESET  
AO, WR, (Chip Select signal) CS, MSM  
LCD  
, 27MHz OSD(40) OSD (106) (32)  
CLK(27MHz) 가 (32) GPIO(OSD\_CTRL) OSD(40)  
3.3V (32) MSM GPIO(OSD\_CTRL) 3 (1  
18) , PWR 3.3V OSD(40) OSD (1  
106) (118) 3.3V가 가  
(32) GPIO(OSD\_CTRL) OSD(40) 3.3V

OSD (106) (200) RS232C (314) OSD\_SD  
, 가 (200) RS232C (314) PC MVP LCD(48)

OSD (106) OSD(40) MPU(104) , OSD (10  
6) R,G,B C\_Sync가 R,G,B 256 8  
(R: 3 , G: 3 , B: 2 )

MVP DSP(18) C\_Sync OSD (106) DSP(18)  
C\_Sync가 OSD (106) 가  
OSD (106) C\_Sync LCD(48)

OSD (106) ( )가 가  
(2) DSP(18) C\_Sync가 ,  
C\_Sync LCD(48)

OSD (106) RGB R,G,B 8 DAC(Digital to Analog Converter)  
 ( 1 41) , OSD (106) C\_Sync (11)  
 42) 가 (42) R,G,B C\_Sync (11)  
 2) 3.5794MHz OSD Y,C (44)

(44) MUX\_PWR 3.3V , MUX\_PWR 3.3V가 가 1  
 (114) 1 (114) ,  
 (32) GPIO(LCD\_CRTL) , GPIO(LCD\_CRTL) (3)  
 2) (44) 3.3V

(2) DSP(18) Y,C (42) Y,C (8)  
 (44) OSD(40) OSD (106) ,  
 OSD (106) (44) MUX\_CTRL OSD (106)  
 MUX\_CTRL (44)가 (42) O  
 SD Y,C

6 MVP , 7 MVP  
 MVP , 8 MVP  
 MVP E - 9

1 가 5, 6 MVP MVP (32) 6 600  
 , 602 602 (32) 60  
 4 (6) (44), (8) 606 (4)  
 (24) (2)

2 (32) GPIO(  
 LCD\_CRTL) LCD (202), (206), (102), (44)  
 (46) LCD(48) , LCD (202) LCD  
 (102) (204) (206) (42) ,  
 ( ) (2) (24)

610 E - 가 MVP E - (32) 608 ,

가 MVP MVP  
 (318) " " (32) 6 612 , 614  
 가 (32) 616 , (24)  
 (2) 618 . 618 (32) OSD(40)  
 LCD(48) ( )

6 620 가 MVP / (316) (32)  
 , 624 가 MVP  
 / (316) (32) 6 622 , 626  
 . 가 / (316) (toggle)

7 . 624 가 ,  
 (24) 700 LCD(48)  
 (24) . 1 , (10), CCD(12), CDS/AGC(14),  
 ADC(16), DSP(18), (24) DRAM 3 (28) 가  
 (24), DSP(18), (44), LCD (46) LCD(48)

704 MVP LCD(48)( ) , 3 (a)  
 (24) (306) , (32) 702  
 가 (2) 1 (24) 706  
 "WAIT" 가 LCD(48) 1 (22) OSD(40)

316)가 / (316)가 7 708 , / ( (316)가  
 626 가

7 702 (304)가 (32) 710  
 (318)가 . (318)가 712  
 (2) (24) , 602  
 가 7 710 (318)가 714 MVP  
 가 MVP MVP 7 700

6 614 8  
 가 LCD(48)

(24) 가 (32) 8 800 . 8 800 (24)  
 (32) 1 LCD(48) (22)

LCD(48)

가 MVP (312) (32)  
 LCD(48) (24)

LCD(48) 가 LCD(48) 가

2 806 가 / 가 , / (316)가 80 (316)가 624

8 802 (318)가 (312)가 (32) 808 (318)가 809 (2) (24) 602 (318)가 8 810 E - 가 가 E - 가 610 E - 가 E -

810 MVP E - (32) 814 MVP 가 MVP 8 802 E - E - , 4 5 E -

4 MVP MVP E - , MVP(400) E - 4 MVP(412) PPP(Point to Point) (402) (404) E - (406) (406) (408), PPP (410) E - SMTP(Sending Mail Transfer Protocol) , E - (406) E - POP(Post Office Protocol) 가

5 MVP , MVP(500, 600), MVP(500, 600) (502, 602), PPP (504, 604), PPP (504, 604) (514, 614), (514, 614) E - (516), PC(508, 608), PC(508, 608) PPP (504, 604) MODEM(MODulator and DEModulator) (510, 610), PC(508, 608) (514, 614) LAN(Local Area Network) (512, 612) (502, 602) (506,606) E - (516) E - S MTP (518, 618) E - POP (520, 620)가

MVP (4) 4 (36) E - E - E - IS - 657 E - JPEG(Joint Picture Expert Group) 가

1 5, 9 E -

MVP E -

MVP E - 가 (32) 9 900 . 9 900  
 OSD(40) LCD(48) 가 MVP  
 (34) 9 902 904 .  
 (32) 904 LCD(48) ( ) 가 ( )  
 ) 906 907 . 907 (32)  
 LCD(48)

가 E - , (32) 908  
 가 E - 가 914 가  
 910 , 가 가 . 910  
 가 (32) 912 E -  
 . E - 8 626 , 800 , 802 804  
 . 912 9 908

9 908 가 (32) E - 가  
 E - E - E - 912 E - 가  
 E - 가 가

914 , E - (32) 916  
 ( ) E - (516) LCD(48) E -  
 . 914 , E -  
 (32) 918 ( ) E - (516)  
 LCD(48) E -

(32) 920 922  
 LCD(48) 924 . 924 ,  
 602 가 .

9 916 , E - (516)  
 . MVP (2) (4) , MVP E - (516)  
 , 512 , MVP E - (516)  
 , 536 , 8  
 TCP(Transmission Control Protocol) IP(Internet Protocol) 20 584

가 .

(Killo Byte)	(32)	(2)	1	(22)			(40KB
12	) 512			(4)	4	(36)	5
	E -		(	)		536	.

	( 40KB )	E -		60KB	가	, MVP	70KB *
8 / 9600bps	60	가	.	9600bps	CDMA(Code Division Multiple Access)		

5	,	, MVP(500)		E -	(516)		(502) P
PP		PPP	(504)	,	TCP/IP		E - (516)
(520)	. MVP(50)	E -	(516)	가	E -	SMTP (518)	POP
	E -	(516)			E -	(516)	E - (
	E - )						

5	E -	(516)	E -		E -	(516)	, PC(608)	M
VP(600)	E -							

	10	MVP	E -			10	
		MVP	E -				

E -	MVP	(32)	10	1000		, 1002	E -
	LCD(48)					E -	
	가	(34)			(32)	1006	E -
			1008	E -		LCD(48)	
가 E -							(3
2) 1010			1012	. 1012			
			LCD(48)				

가				(32)	1014		, 1016
			1018	가	가		
가	1020			LCD(48)			
	1018	가		1022	가	가	
	가						
	(32)	1022		가	가	가	가

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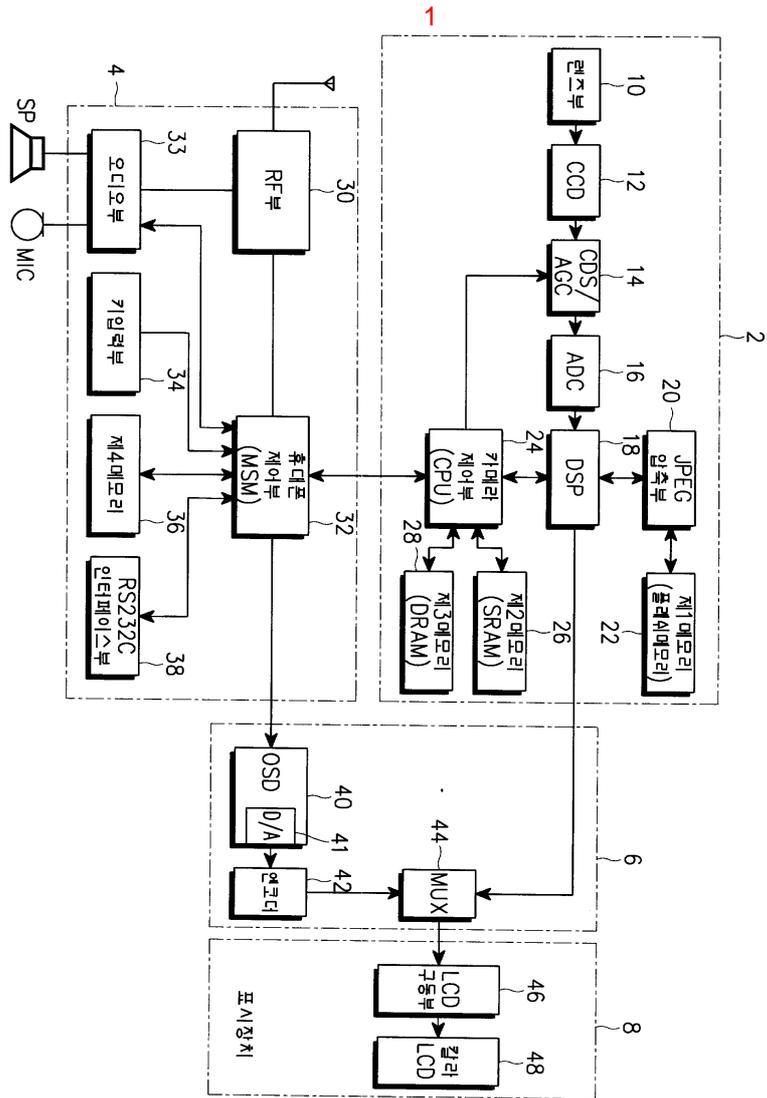
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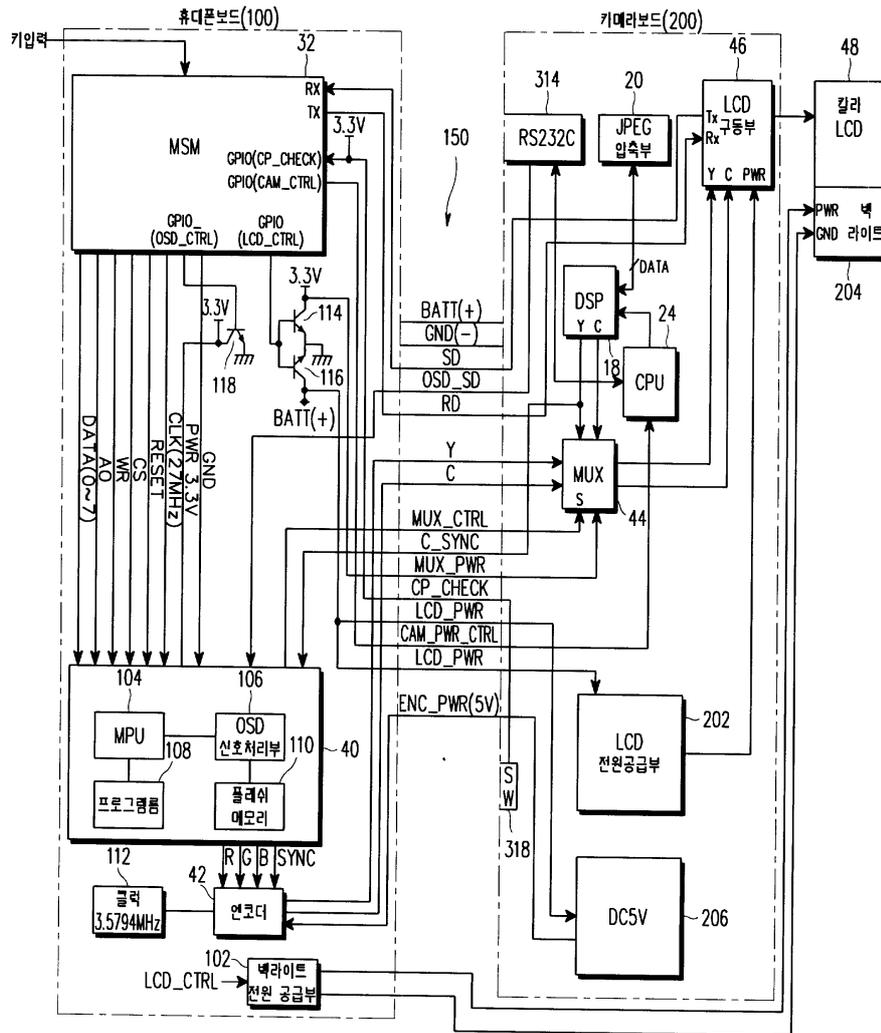
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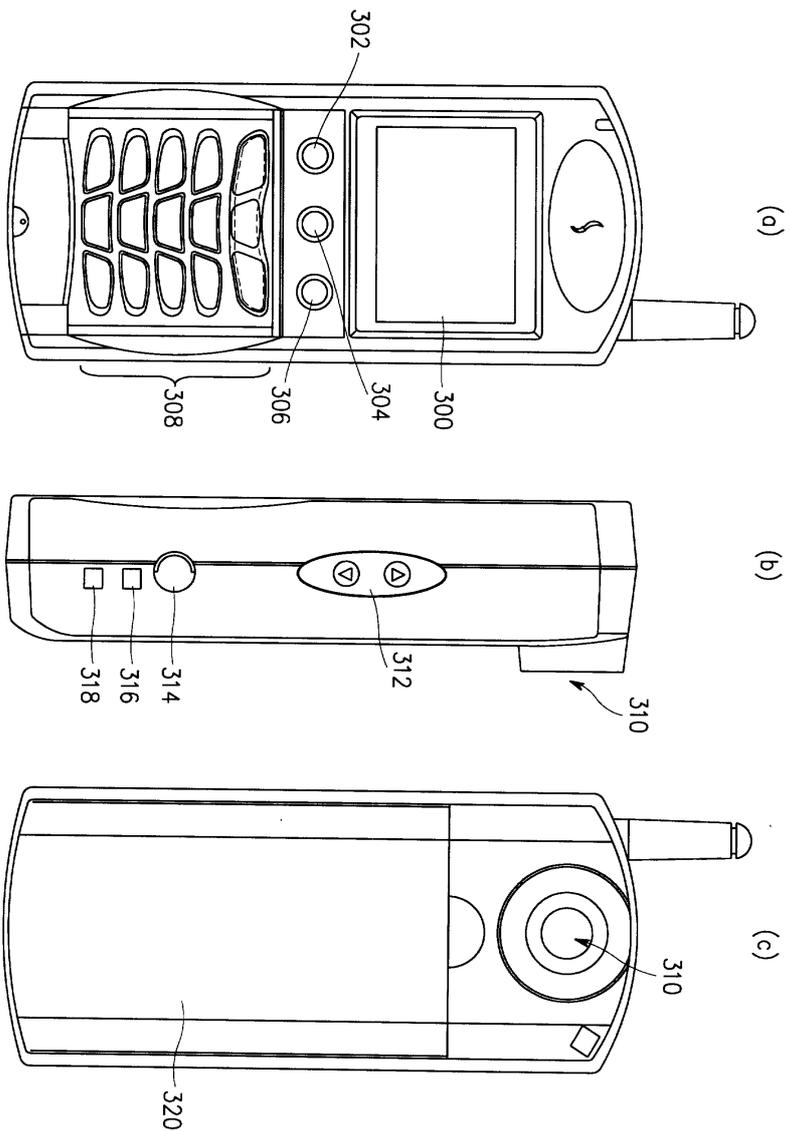
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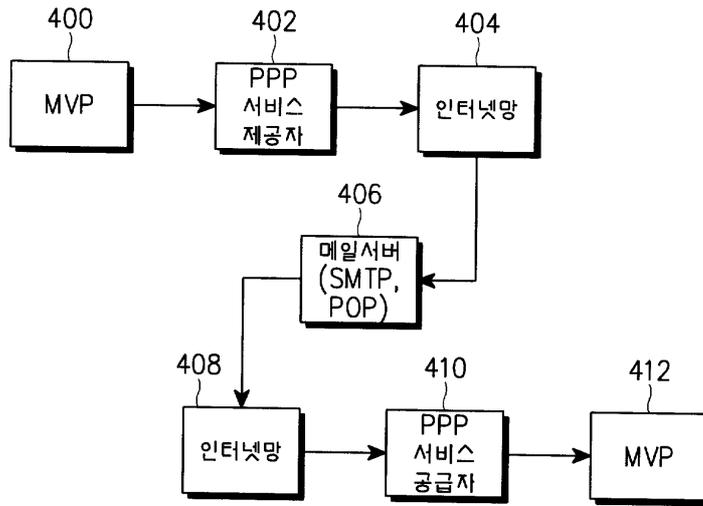
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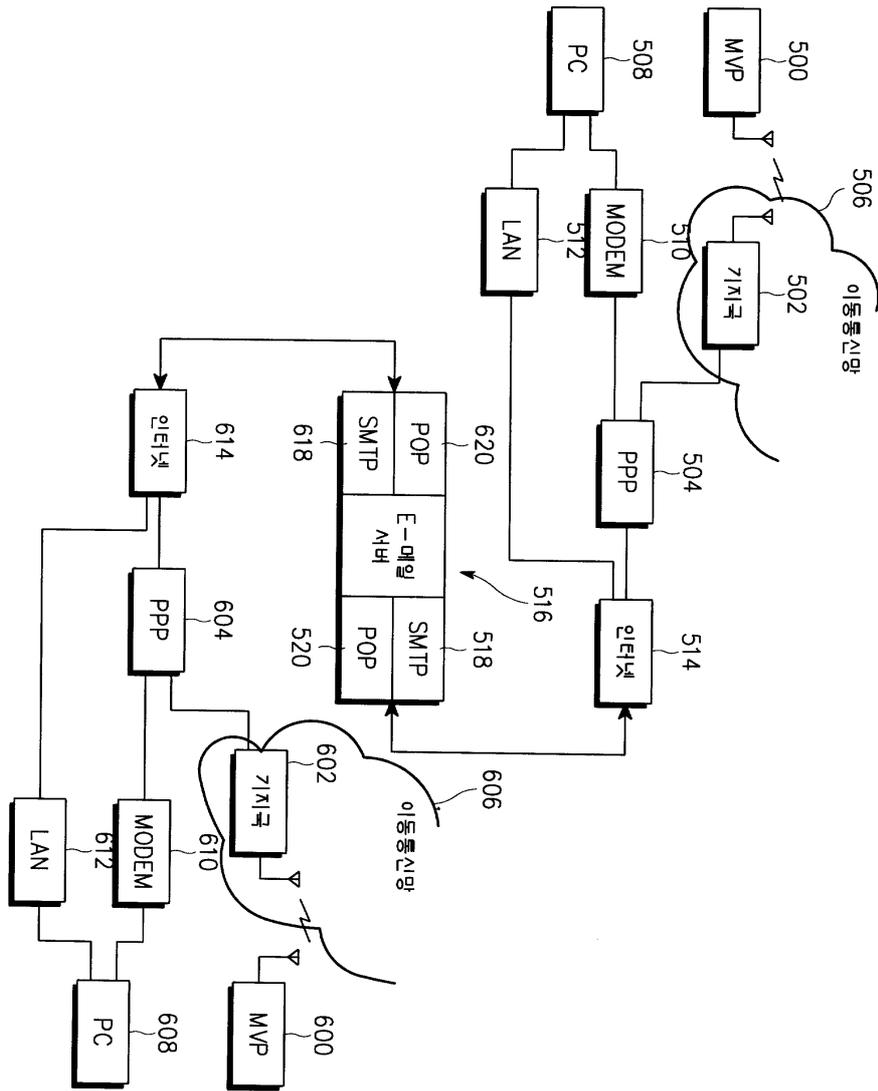
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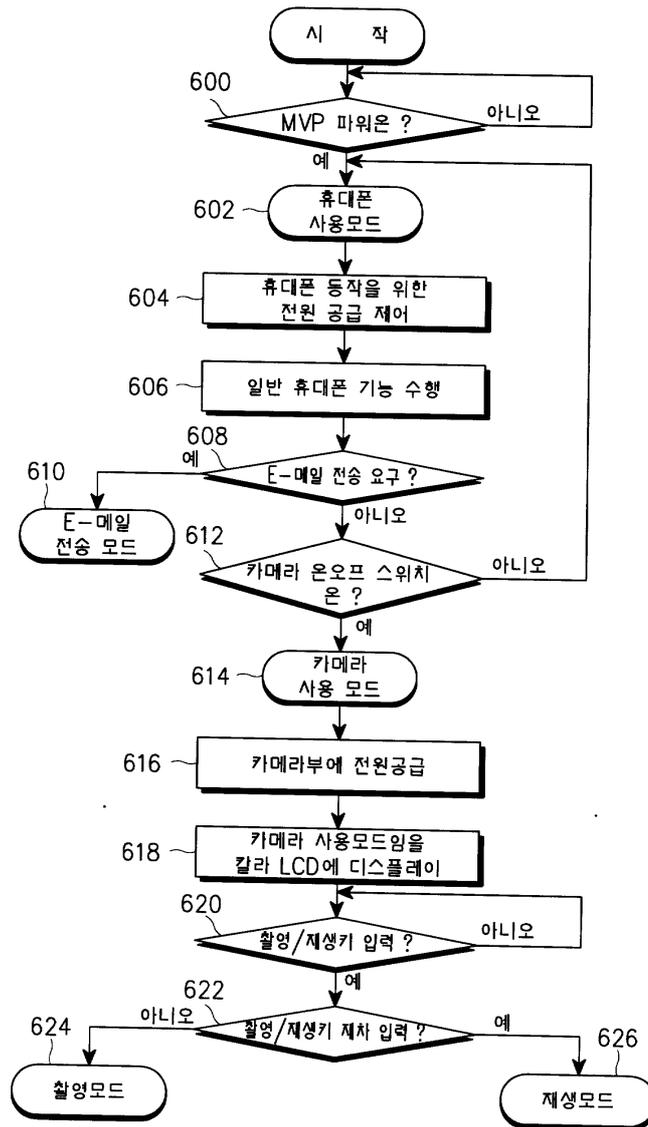
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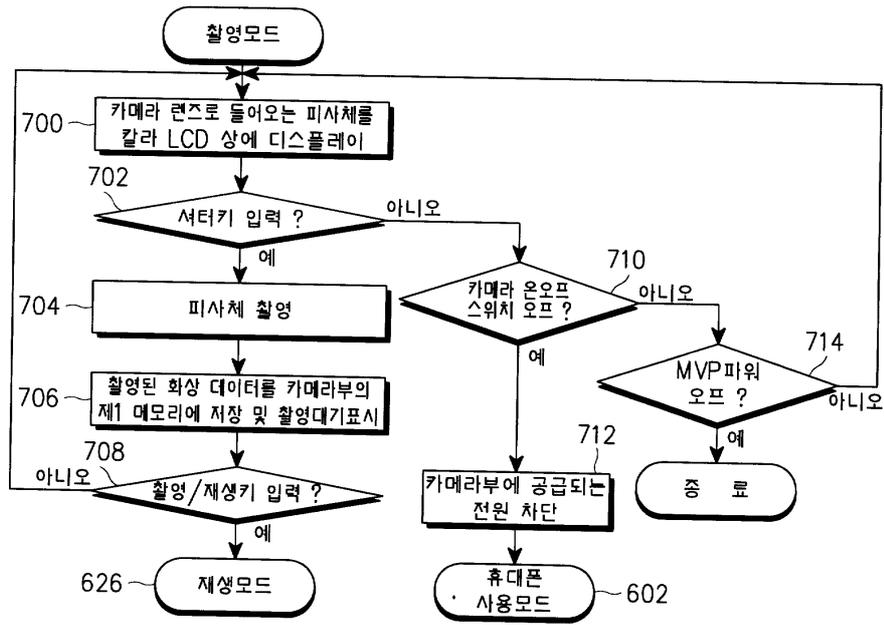


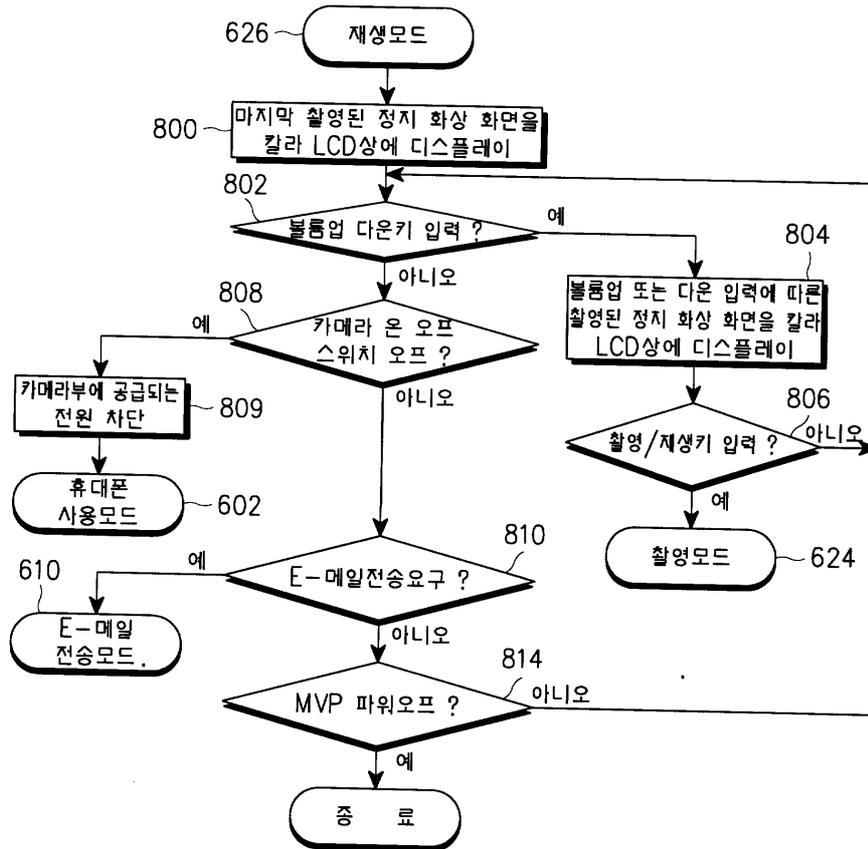
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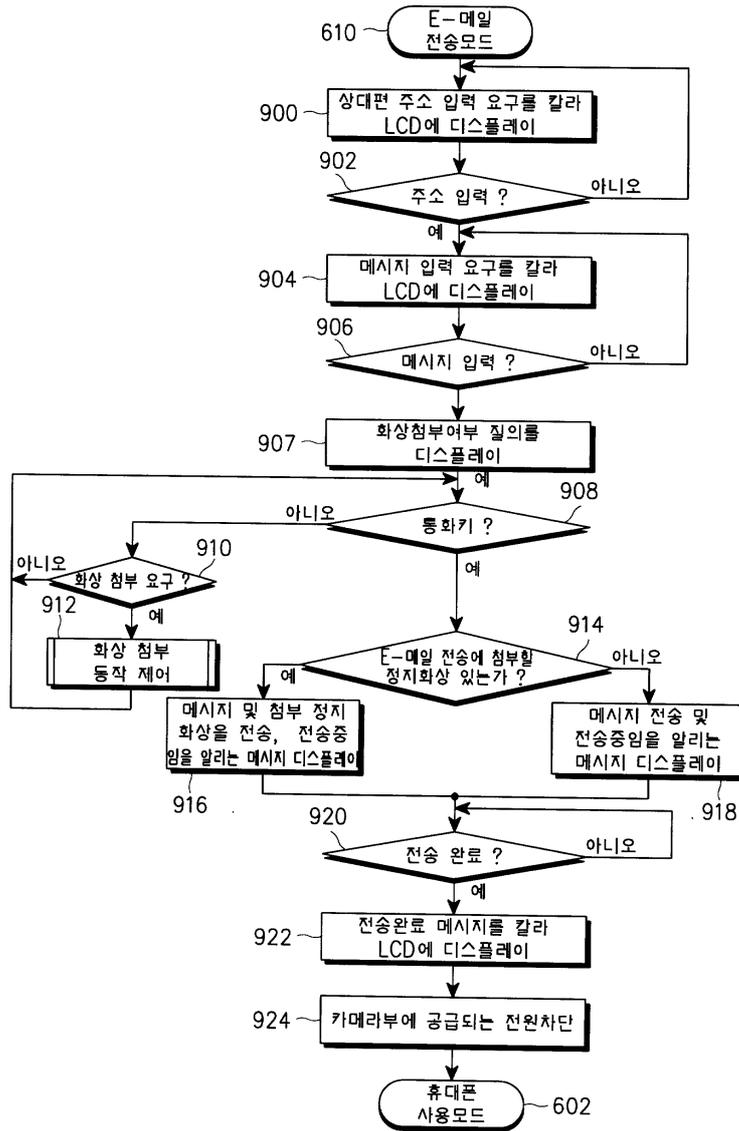
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