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(71) 3 416

(72) 95136 4466  
, 95014 ,22330 #108  
, 95014 ,20325  
, 95051 ,900 #1012  
, 95134 ,75  
, 95054 ,1535 #2206

(74)

:

(54)

가 / 가  
/ (initial) / (subsequent)  
/ 가 , 가  
/ 가 , 가

		/			
9a					
1A					
1B	1A				
2A		,			
2B					
2C	1B				
3					
4					
5					
6A				PES	
6B			PES	PES <sub>COR</sub>	
6C	PES가		PES <sub>COR</sub>		
7A				PES	
7B			PES	PES <sub>COR</sub>	
7C	PES가		PES <sub>COR</sub>		
8					
9A	9B				
10A	10B			2	

가 (raw) ( ) (side) 가 / 가

( ) 1A / (gap) 1B (spike)

/ , 2001 \_\_\_\_\_ "

가 ( ) P1 1A / P2 G가 , 1B (term)

2A 2A A , PES G N1

가 P1 2A B ,  
 PES가 G N2 G P1  
 P3 N2 N1/2 , P3 G P3 .

2B PES r  
 PES Xo , 가, VCM  
 , PES X가 r  
 M , 가 2A X1 VCM 가 . X PES Xo , VC

3 (100)  
 (100) (104) (102) (104) (106)  
 (108) (106) (110) (112) (10)  
 8) (flexure arms)(112) (116) (114) (108) (10)  
 6) (119) (118) 가 가 (102)  
 (110) 가 가 (104),  
 (118) (110) (Printed circuit board)(122) (120)  
 (110) (120)  
 (RAM)

4 (102) 가  
 (AGC) (150), (sync) (152),  
 (154), (ID) (156), A, B, C, D (158),  
 (160) (162) (110)  
 (158) 가 (120) (120) , (A  
 -B) (C-D) , (110) Q .

5 (120) (120) / (R/W) (174)  
 (172) / (174) (AGC) (176),  
 (178) (peak) (180) (120) / (ADC)(184),  
 (DSP)(186), (burst sequencer) (188), RAM  
 (190) DSP(186) (192), 가 (194) (198)

(120) (102) (110) (102)  
 (110) (102)  
 R/W AGC (172) R/W (174) AGC  
 (176) (176) R/W AGC AGC  
 R/W AGC (176) (180)  
 (178) (180)  
 DSP(186) (192) ADC(184)  
 (192)

(110)가 A, B, C D Xo 가 (194)  
 (192) A, B, C D PES X

PES X Xo 가 r Xo r, Xo X P  
 ES X가 (198) Q (198) Q Q (108)  
 (110) Q (190) (108)

6A 1A PES 가 6A  
 가 PES T 가  
 6B PES ( - ) +/- 5%  
 PES COR  
 2A PES G (peak - to - peak) Gpp  
 PES 2A A A'  
 가 S T1 PES COR T3 SCOR PES S  
 , S T1 PES COR T2 6C 6B SR  
 S가 S/2

7A (centered position signal) PES T1  
 가 7A +/- 5% 7B  
 PES T5(T5 < T1) (dipulse) PES COR 2A PES G  
 Gpp PES 2A B  
 B' S T1 PES COR T3 SCOR PES  
 S T1 PES COR T3  
 7C 7B SR PES T2

8 (800) (closure) CL 1 CM CS  
 (810) (820)

1

If  $(CL - CN/2) \geq 0$ ,  
 then  $CS = (CN/2)$   
 otherwise  $CS = CL - (CN/2) + NS$

, CL ( ), CN ( ), NS

CS 가 , CS  
(800)

9A 9B (900)  
PES PC (900)  
SN CS 가 (905) . CS 8  
CN SN CS , (900) SN CS 가 ( )  
(900) (910) . , PES PC 0 (915) .  
PES PES / PES

(910) , (SN - CS)가 CN , (SN - CS)가 (CN/2) (920 )  
(SN - CS)가 (CN/2) , 2 PC (925)

2

$$PC = CM * (SN - CS + 1) / (CN + 1)$$

CM (900)

, 920 , (SN - CS)가 (CN/2) , PC가 3 (930)

3

$$PC = CM * (SN - CS - CN) / (CN + 1)$$

905 SN CS , (SN - CS + NS)가 CN  
(935) . (SN - CS + NS)가 CN , PC 0 (940 )  
(900)

, PC , (SN - CS + NS)가 (CN/2) (945)  
4 (950 )

4

$$PC = CM * (SN - CS + NS + 1) / (CN + 1)$$

(900)

가 , PC가 5 (955 )

5

$$PC = CM * (SN - CS + NS - CN) / (CN + 1)$$

(900)

10A 10B  
 PES<sub>ave</sub> (1000) PES  
 (1005 ) , M PES 가 ,  
 PES 가 PES<sub>D(M)</sub>  
 ES<sub>ave</sub> 90% PES<sub>D(M)</sub> PES<sub>ave</sub> (1000) PES<sub>D(M)</sub> P  
 (1020) . PES<sub>D(M)</sub> PES<sub>ave</sub> 90%  
 가 (1025 ) 1015 . PES가  
 (1030 ) . 1030 ,  
 PES (1035 ) , 1045 , PES 0  
 (1040 ) . (1000) PES (1045 ) .  
 (1050) S가 ST  
 SG (1055) . 1055 , PC 0  
 SG가 L 가 . SG가 L . SG가 L  
 , PC = PC + PES<sub>avidx</sub> / SG . SG가 L , (1070) . SG가 L  
 , (1000) 6

6

$$X = SC - [ST - SG]$$

$$PC = (X * PES_{avidx}) / SG$$

6 PC가

PES PC가 , PES PES PES  
 . PES / , 가 /  
 , / 가 /

(57)

1.

- a) / 가 , 가 ;
- b) / ;
- c) / (initial position) , / 가 (subsequential position)가 (offset laterally) , ;
- d) , ;
- e) / / .

2.

1 , c) , / .

3.

2 , c) , (gap) / .

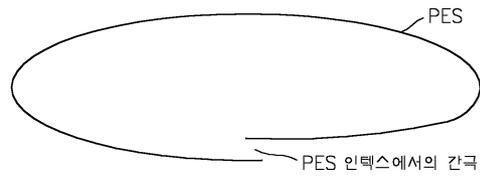
4.

3 , c) , 가 0 ; ;

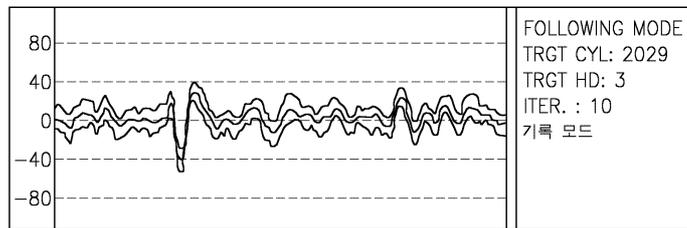
5.

4 , d) , / / .

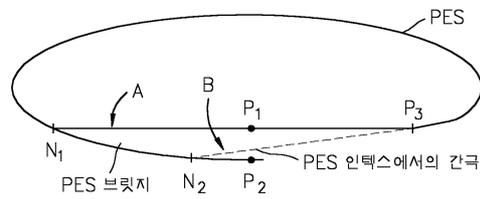
1a



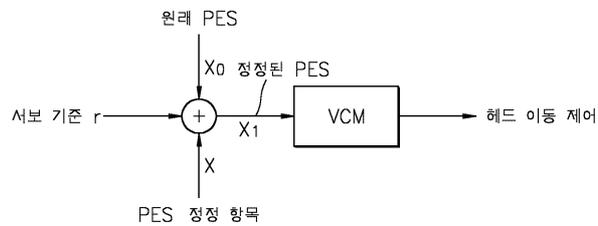
1b



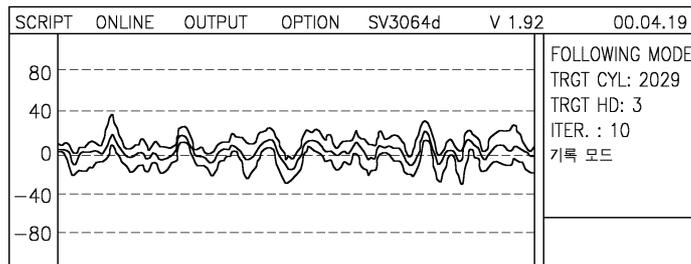
2a



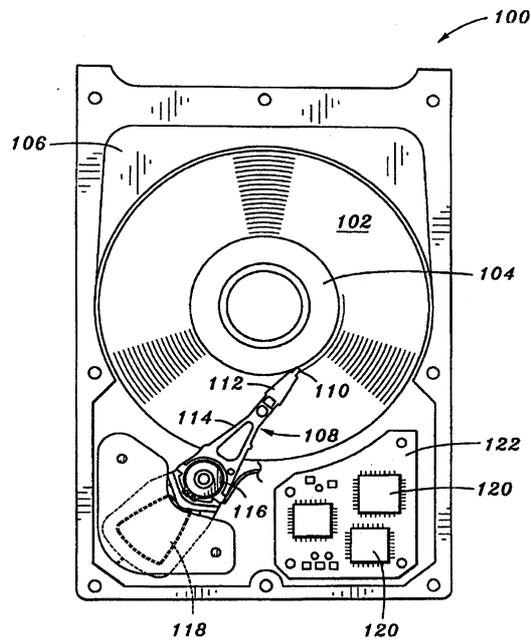
2b



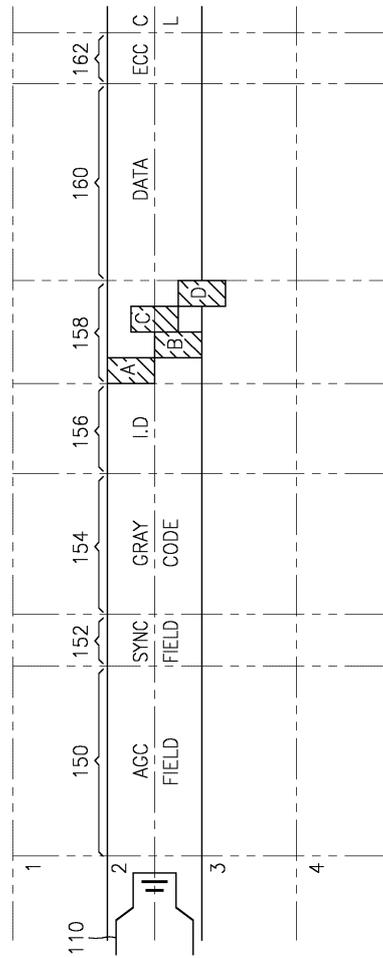
2c



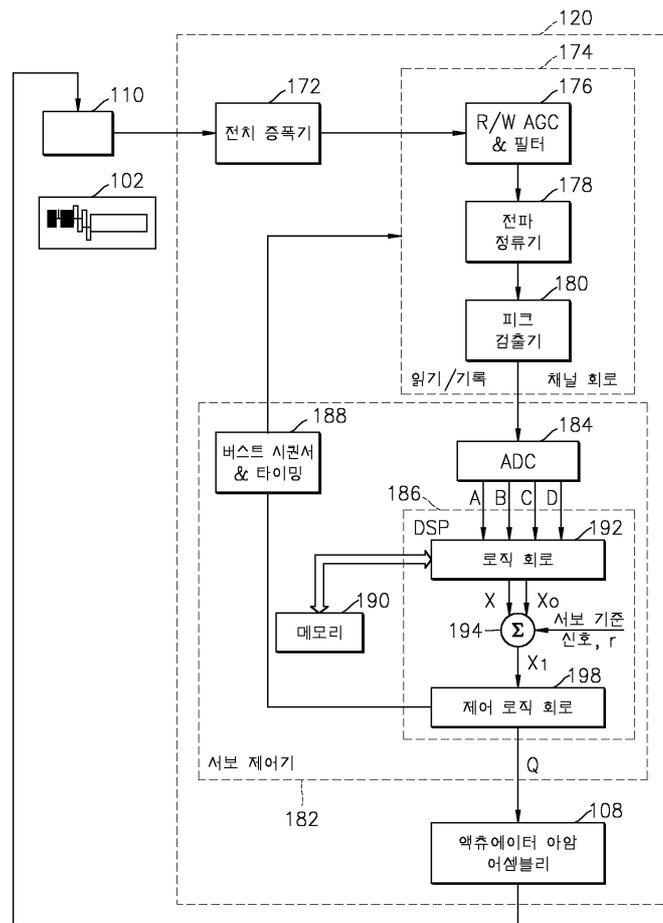
3



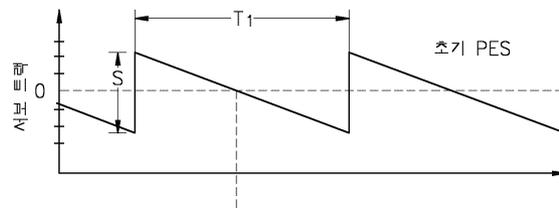
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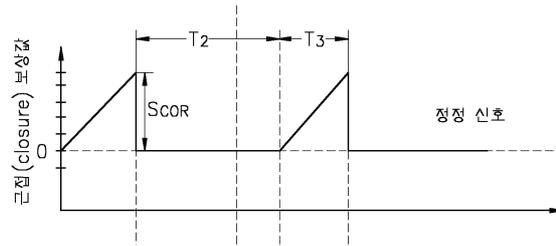
5



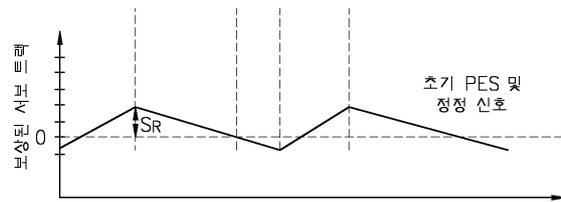
6a



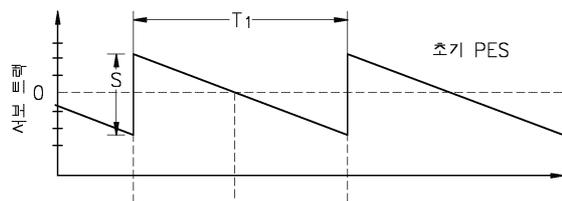
6b



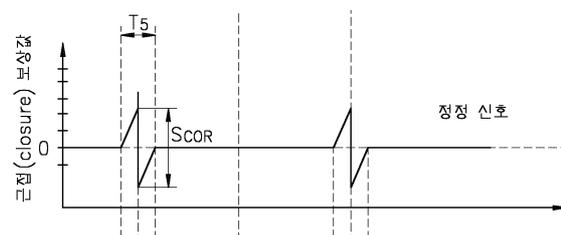
6c



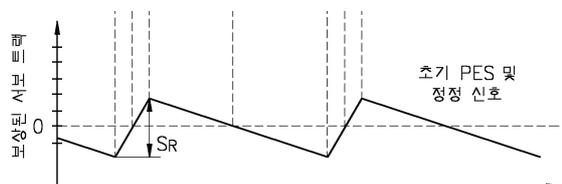
7a



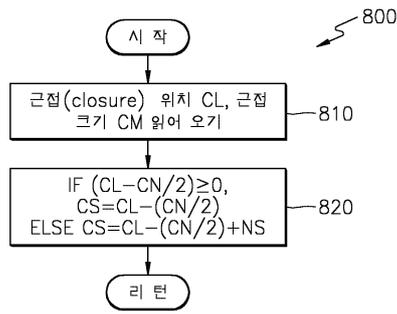
7b



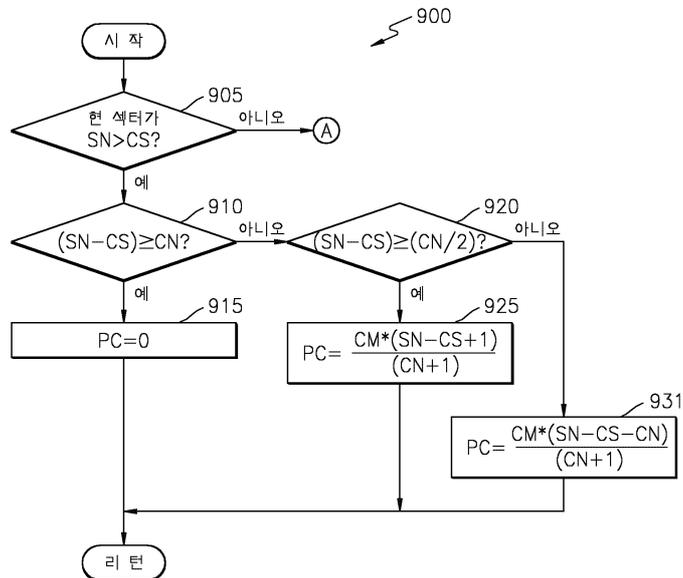
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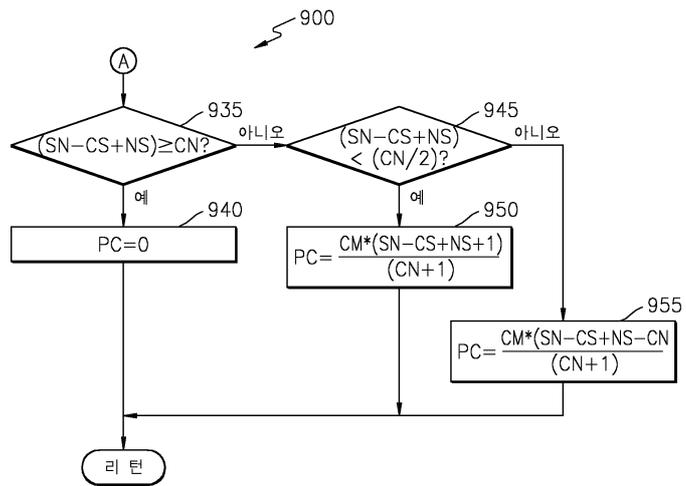
8



9a

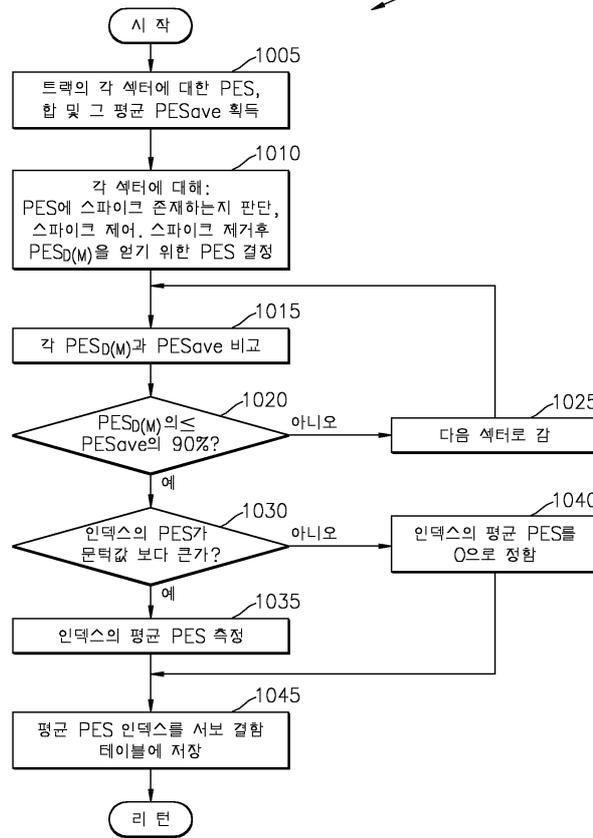


9b



10a

1000



10b

