

(19)  
(12)

(KR)  
(B1)

(51) 。 Int. Cl. <sup>6</sup>  
H03M 7/34

(45)  
(11)  
(24)

2002 06 20  
10 - 0322690  
2002 01 17

(21) 10 - 1994 - 0015693  
(22) 1994 06 30

(65) 1996 - 0003117  
(43) 1996 01 26

(73)

3 416

(72)

132 - 405

(74)

:

(54)

가 ,

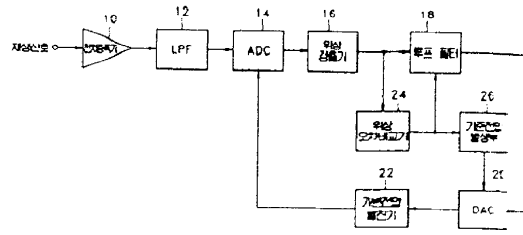
dead - zone effect

가

dead - zone effect

가

제 1 도



1									
2									
3									
4A			16						
4B		S0 S1			16	8			VCOCTR
L(VOLTAGE CONTROL OSCILLATOR CONTROL)									
5A	V		V0, V1, V2,	V3					
5B									
*									
10...		12...							
14...	-		16...						
18...		20...	-						
22...가		24...							
26...		30	40...		6				
42	52...	1	6	54...					
56...	60	74...	1	8					
76, 78...	1,	2	80, 84...	가	2, 가	1			
86...									

R1 R6...

가

가

dead - zone effect가

dead - zone effect

가

가

가

가  
가  
가

가  
가

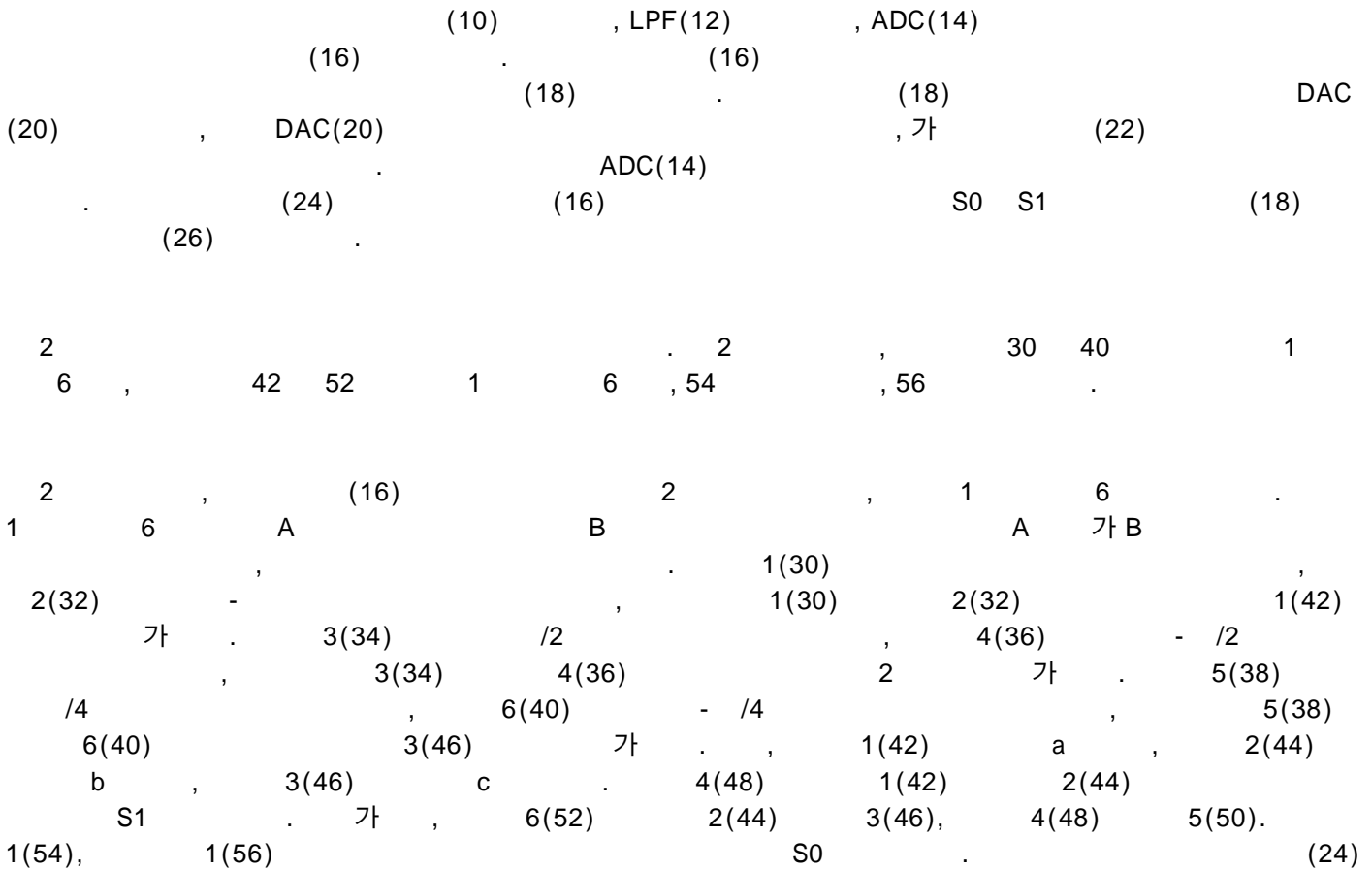
가  
가

dead - zone effect가 . Dead - zone effect 가 가

| 가 | <  
가 가  
effect . 가 dead - zone e

dead - zone effect

1  
, 12 (LOW PASS FILTER; LPF ) 14 10  
DIGITAL CONVERTER: ADC ) , 16 , 18 (ANALOG - D  
(DIGITAL - ANALOG CONVERTER: DAC ) , 22 가 , 20 -  
, 26 , 1 (24) , 24 4  
(18) 8 가 . 8  
16 가 .



$$S0 = a(\bar{b} + bc)$$

$$S1 = ab$$

, S0, S1

(16)

[ 1 ]

[ 1 ]

x :

S0, S1 :

x 와 임계값의 크기 비교	출력신호( S1, S0 )
$x \geq \lambda$ 혹은 $x \leq -\lambda$	( 0, 0 )
$\lambda/2 \leq x < \lambda$ 혹은 $-\lambda \leq x < -\lambda/2$	( 0, 1 )
$\lambda/4 \leq x < \lambda/2$ 혹은 $-\lambda/2 \leq x < -\lambda/4$	( 1 0 )
$-\lambda/4 \leq x < \lambda/4$	( 1, 1 )



(57)

1.

가 , 가 ; 가 ; 가 ; 가 ; 가 ;

2.

1 , 가 ; 가 ;

3.

1 , x  
 , ,  
 $X \geq -1, x \leq 1$   
 $1/2 \leq x < 1, -1 \leq x \leq -1/2,$   
 $1/4 \leq x < 1/2, -1/2 \leq x \leq -1/4,$   
 $-1/4 \leq x < 1/4$   
 , (0,0), (0,1), (1,0) (1,1)  
 .

4.

1 , 1 1 ;

2 2 ;

3 3 ;

4 4 ;

1 , 2 , 3 , 4 가 1 ; ,

1 5 ;

2 6 ;

3 7 ;

4 8 ;

5 , 6 , 7 , 8 가 2 ; ,

2 2 가

2 가 :

2 가 2 가 :

1 2 가 1 가 ;

3 , 1 가 16 8 ,

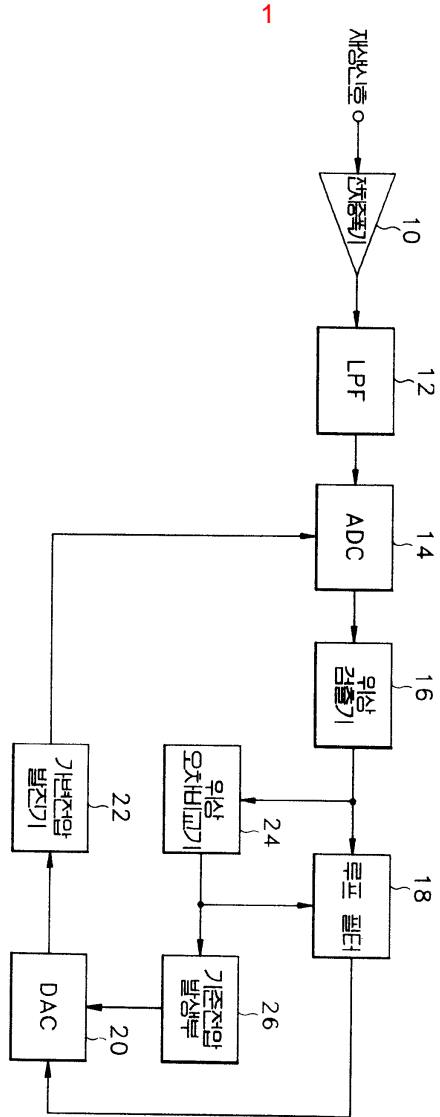
5.

4 , .

6.

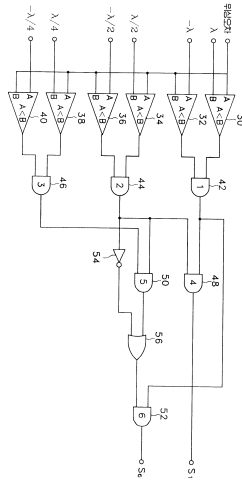
2 , - , 가



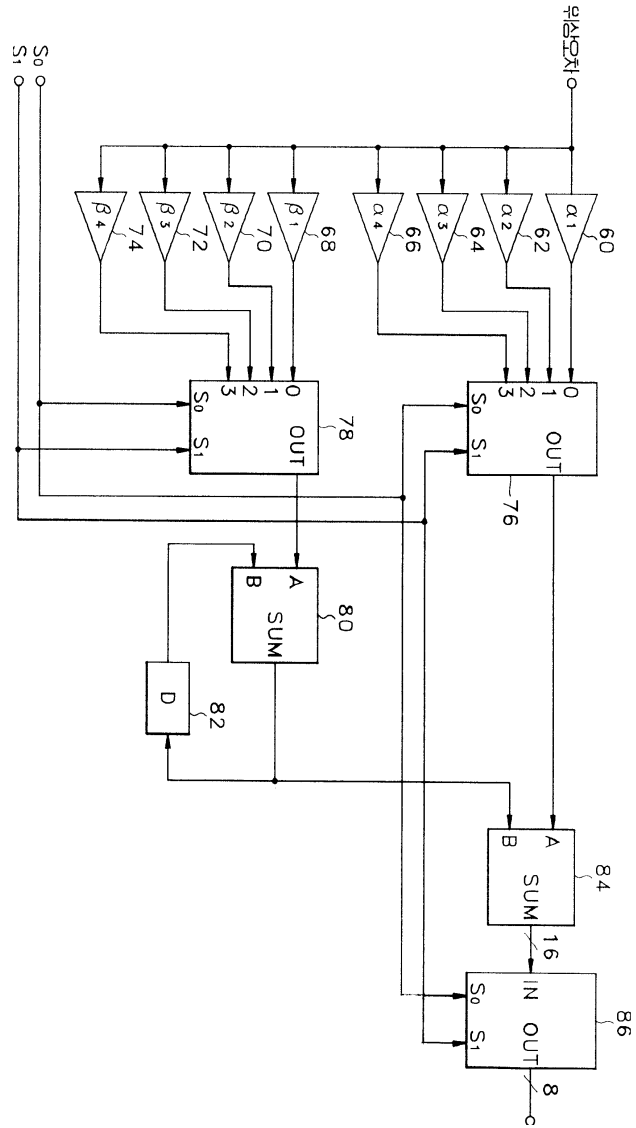


1

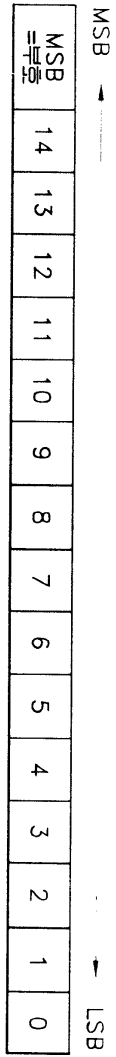
2



3



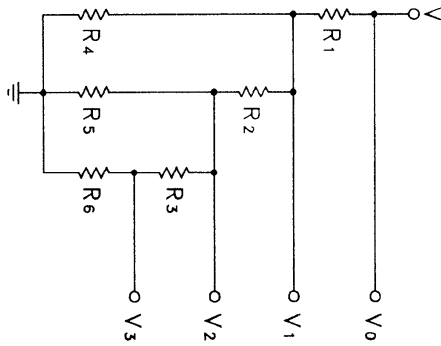
4a



4b

MSB	VCOCTRL (16 → 8H <sub>16</sub> )														LSB	S <sub>1</sub> , S <sub>0</sub>
	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
S	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0, 0	
S	13	12	11	10	9	8	7	6	5	4	3	2	1	0, 1		
S	12	11	10	9	8	7	6	5	4	3	2	1	0	1, 0		
S	11	10	9	8	7	6	5	4	3	2	1	0	1	1, 1		

5a



5b

