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212-1002

615 801

109-1503

865-1 111-1604

(74)

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(54)

C,D 4 가 , A,B,
P_C , (P_B - P_C) , B 1 P_B , C
P_A , D 가 , P_D , (P_B - P_C) , A 2
, 1 가 , (P_B - P_C) 1 , 1
S2 , 2 (S1-S2) 3 S1,
가 . , ,

4

1			
2		4	
3	4		-
4			1
5			2
6			1
7			2
8a	10b		1

hoto detector) (tracking) (error) (p
 - (push-pull) , ,
 (filtering)

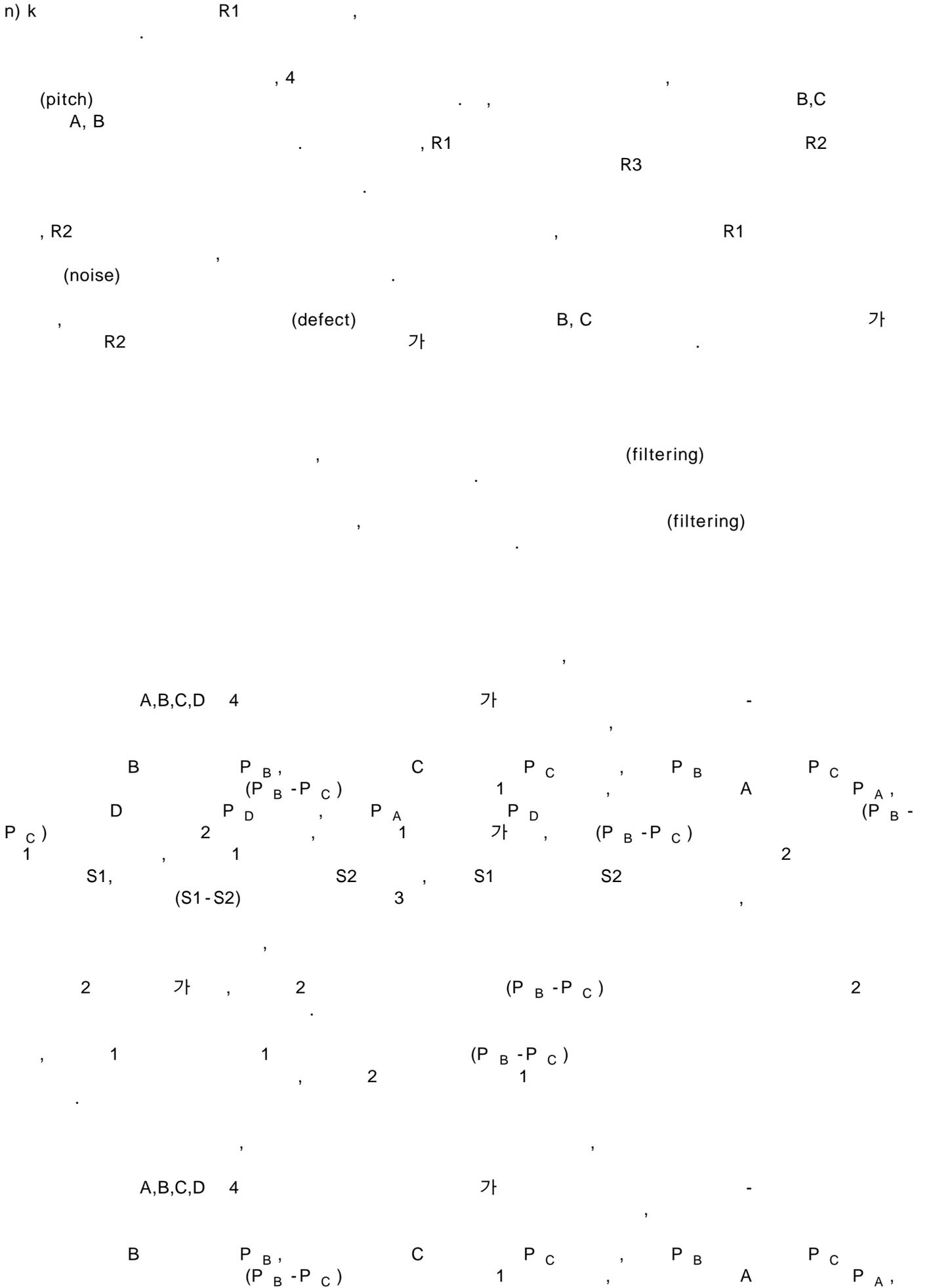
(spot) 가

4 -

1 (15) (17) (pick-up) , (11), (13),
 ((15) (17) (13) (11)

2 (17) 4 (radial) A,B,C,D 4
 (17)

3 4 B P_B, C P_C , (P_B - P_C)
 1 , 2 , A P_A, D P_D , (P_A - P_D)
 R1, R2 , (R1 - R2) k 3
 3 R3 , R3 = (P_A - P_D) - k(P_B - P_C)
 -P_C) 가 (track cross) (shift) , (P_A - P_D) , (P_B - P_C)
 , R2 (gai



67, (S1-S2) 3 (49) 2 (43) S1 (47) S2
 (69).

7 2

6 1 , 6 61 67

67, 2 (43) S1a (P_A-P_D) BW2 2 (50)
 (45) BW1 (71). 2 BW2 1
 가 , BW2 .

71, (S1a-S2) 3 (49) 2 (50) S1a (47) S2
 (73).

8a 10b 1
 (land)-(groove) (groove) 405nm, (NA:Numerical Aperture)가 0.8
 가 0.32um

5, 8a 3 R1 (P_A-P_D) R2 (P_B-P_D)
 c) R3 , R2

8b 8a 4
 1 (45) , S3 3 S1 R1 , S2b R2가 1
 , R2 (49) S2b , S3 8a
 R3 .

9a 가 (tracking off) , 3
 , R2가 R3 .

9b 9a 4
 1 S2b , R2가 S3 R3

10a 9a 가 (tracking off) , 3
 , 가 R2 R3 .

10b 10a 4
 1 , S2b S3

(filtering) , , , 가 , 가 .

(57)

1.

A,B,C,D 4

가

-

B $P_B,$ C $P_C,$ P_B P_C
 $(P_B - P_C)$ 1 ;

A $P_A,$ D $P_D,$ P_A P_D
 $(P_B - P_C)$ 2 ;

1 가 , $(P_B - P_C)$ 1 ;

1 ;

2 S1, S2 , S1 S2
 $(S1 - S2)$ 3

2.

1 , 1 ,

1 $(P_B - P_C)$

3.

1 , ,

2 가 , 2 $(P_B - P_C)$ 2

4.

3 , 2 1

5.

A,B,C,D 4

가

-

B $P_B,$ C $P_C,$ P_B P_C
 $(P_B - P_C)$ 1 ;

A $P_A,$ D $P_D,$ P_A P_D
 $(P_B - P_C)$ 2 ;

1 ; 1 가 1 1

1 ;

2 S1, S2 , S1 S2
 $(S1 - S2)$ 3

6.

5 , 1 ,

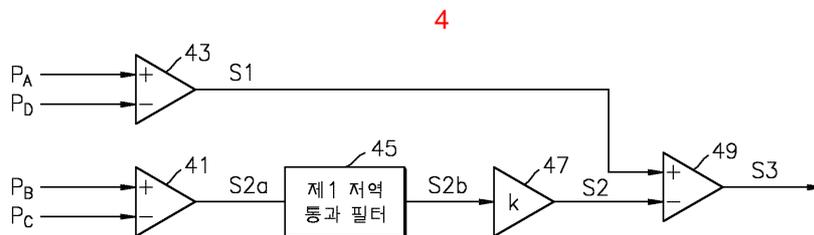
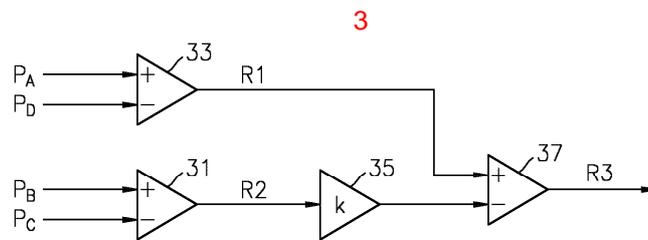
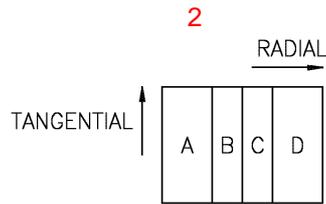
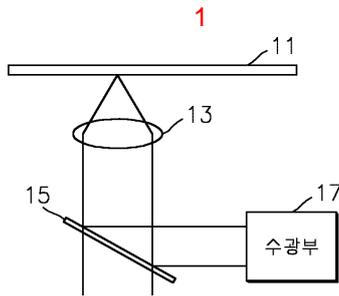
1 $(P_B - P_C)$

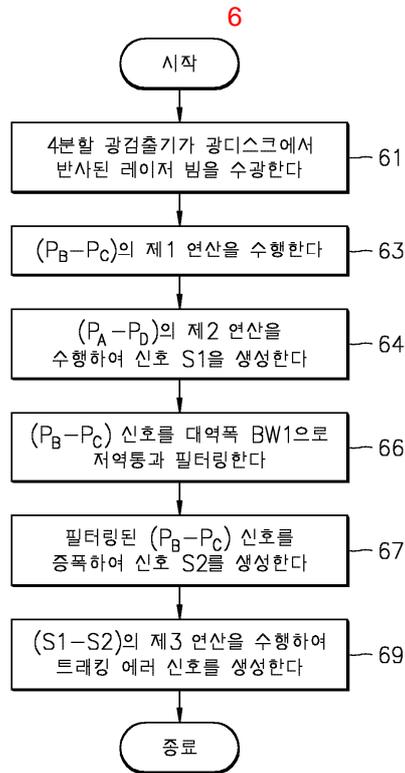
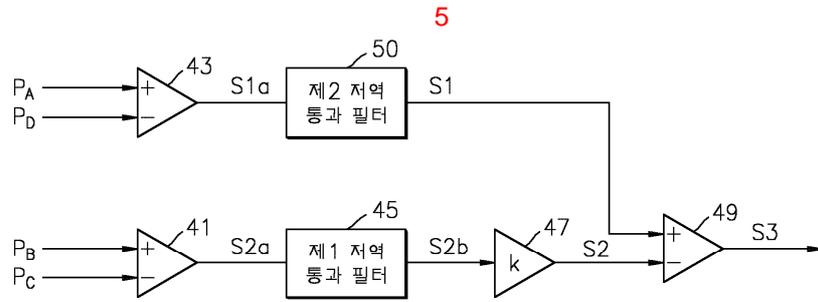
7.
5

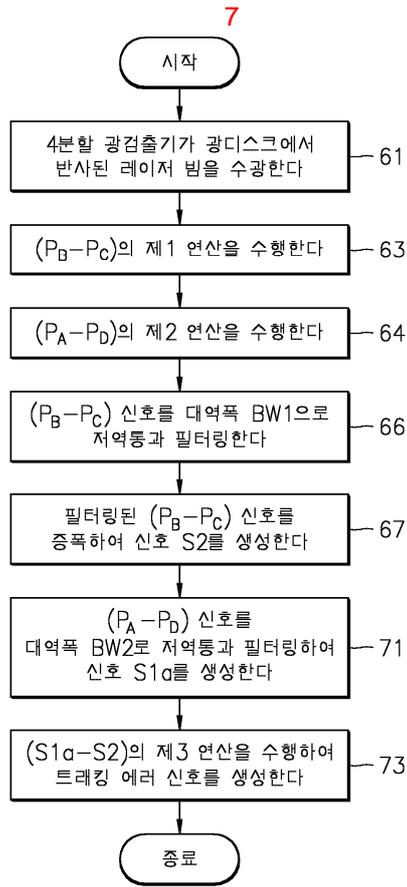
$(P_B - P_C)$ 2 가 2

8.
7

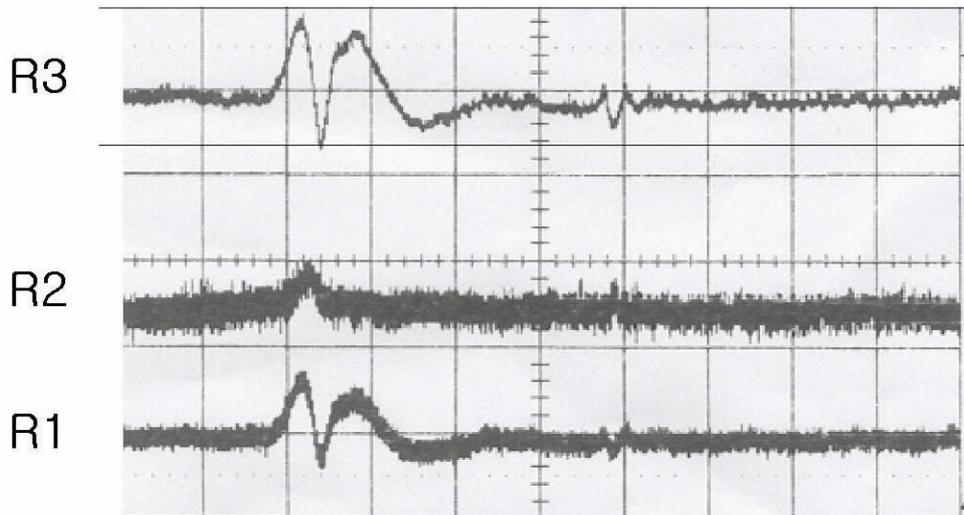
2 1

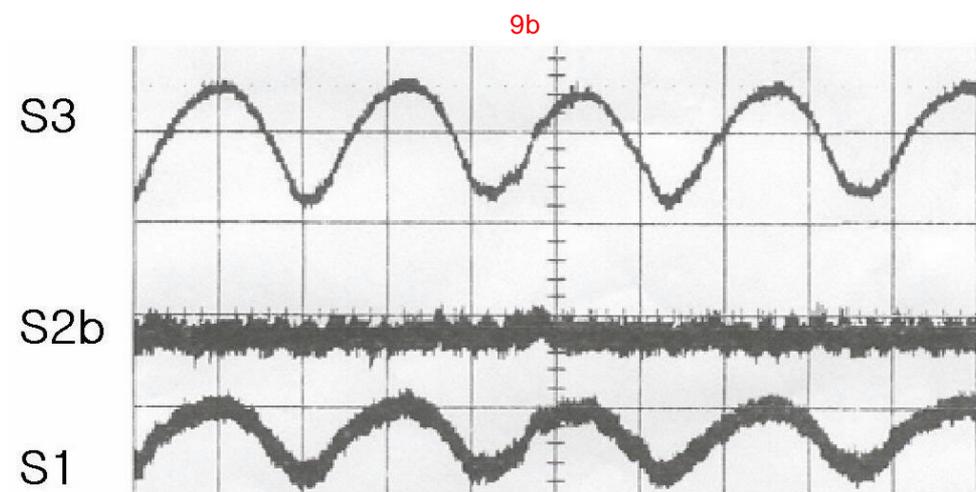
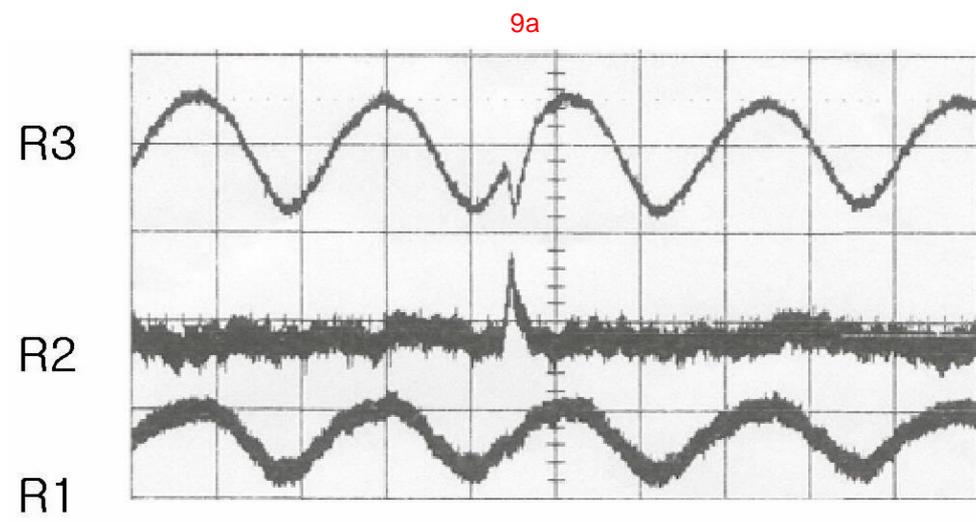
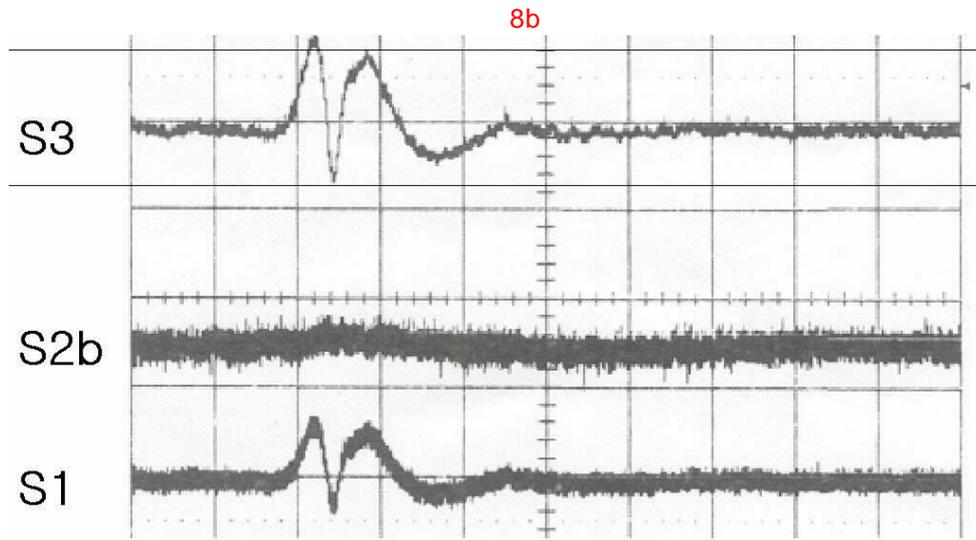




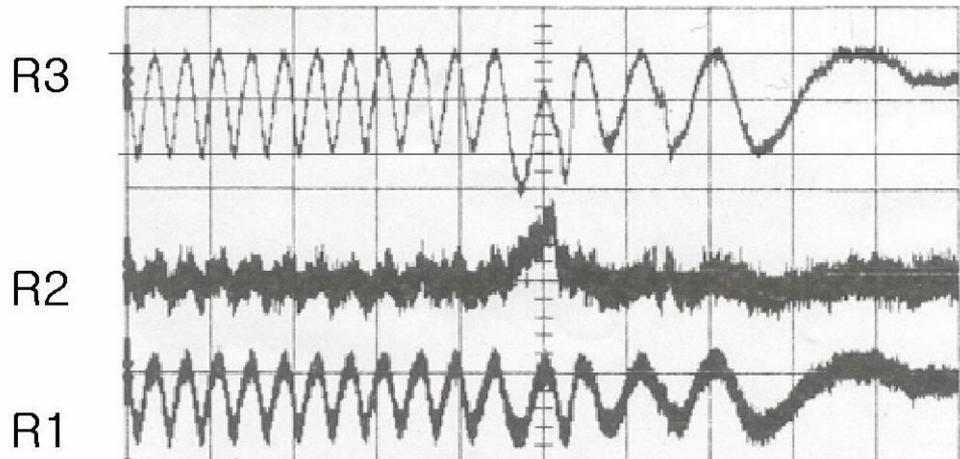


8a





10a



10b

