FIG.1

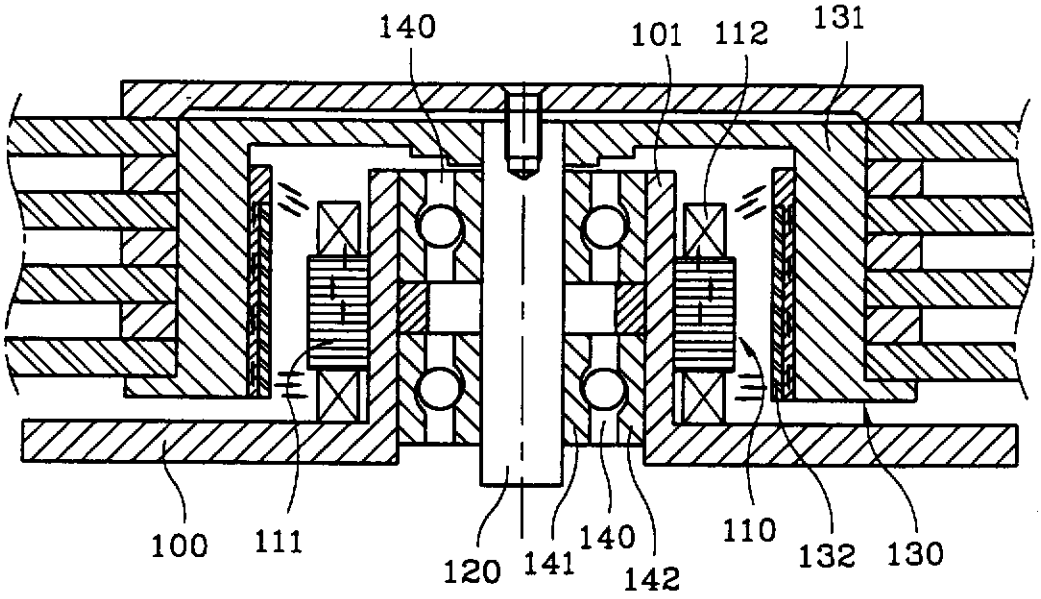


FIG.2

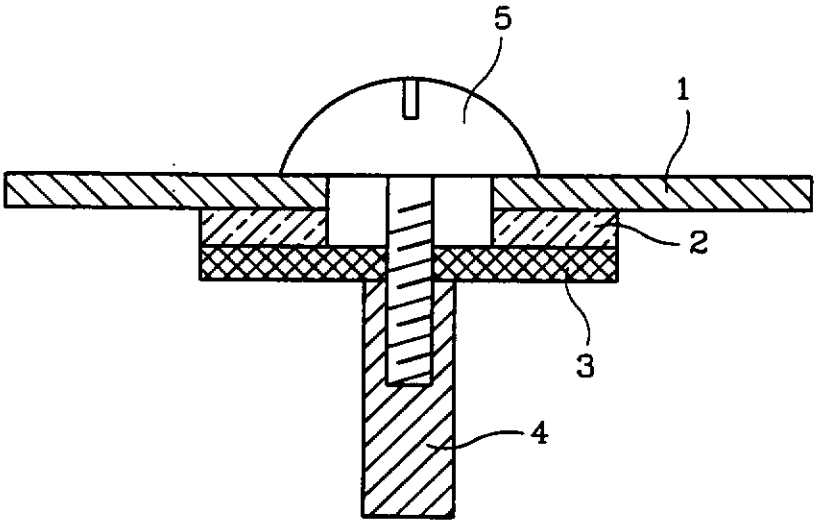


FIG.3

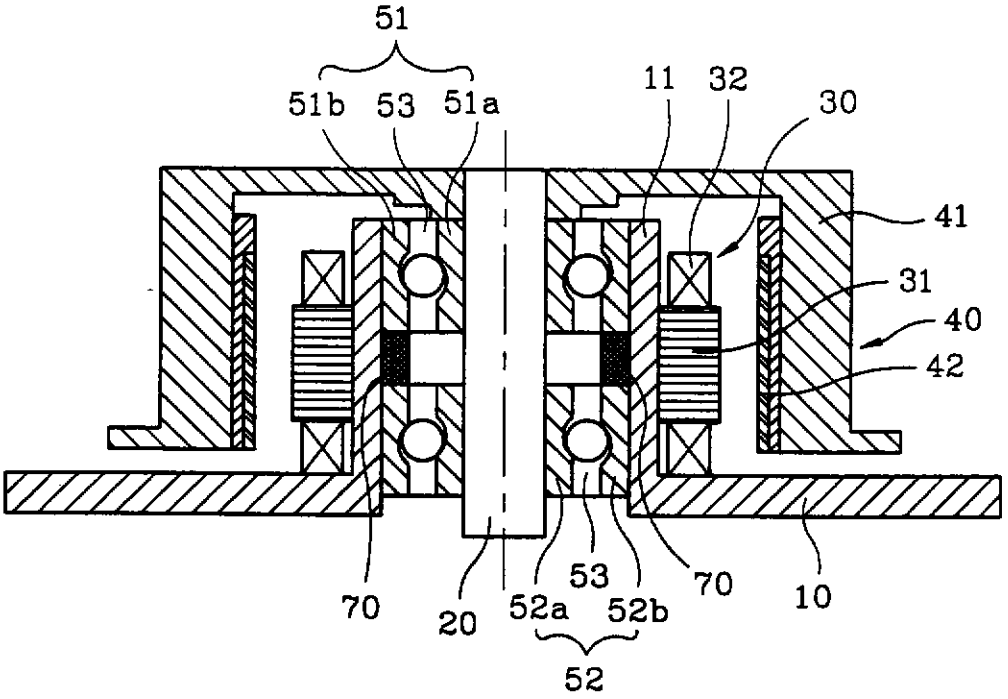

51
51b
53
51a
11
32
30
41
31
40
42
70
20
52a
53
52b
70
10
52

FIG.4

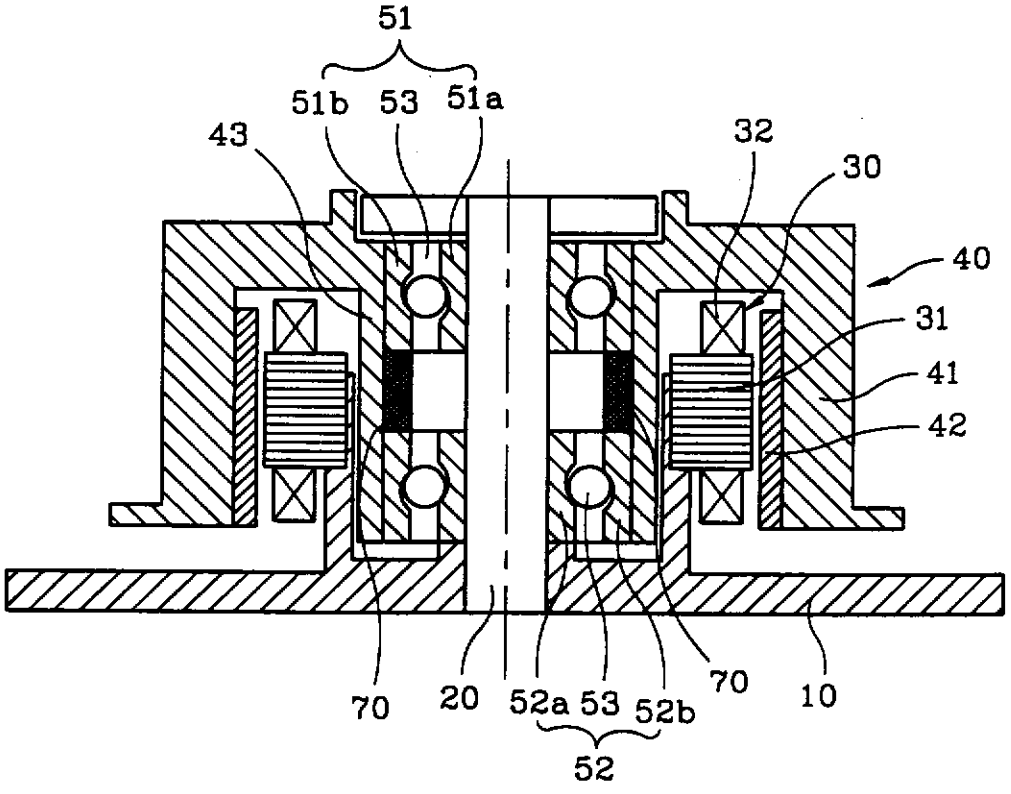

51
51b
53
51a
43
32
30
40
31
41
42
70
20
52a
53
52b
70
10
52

FIG.5

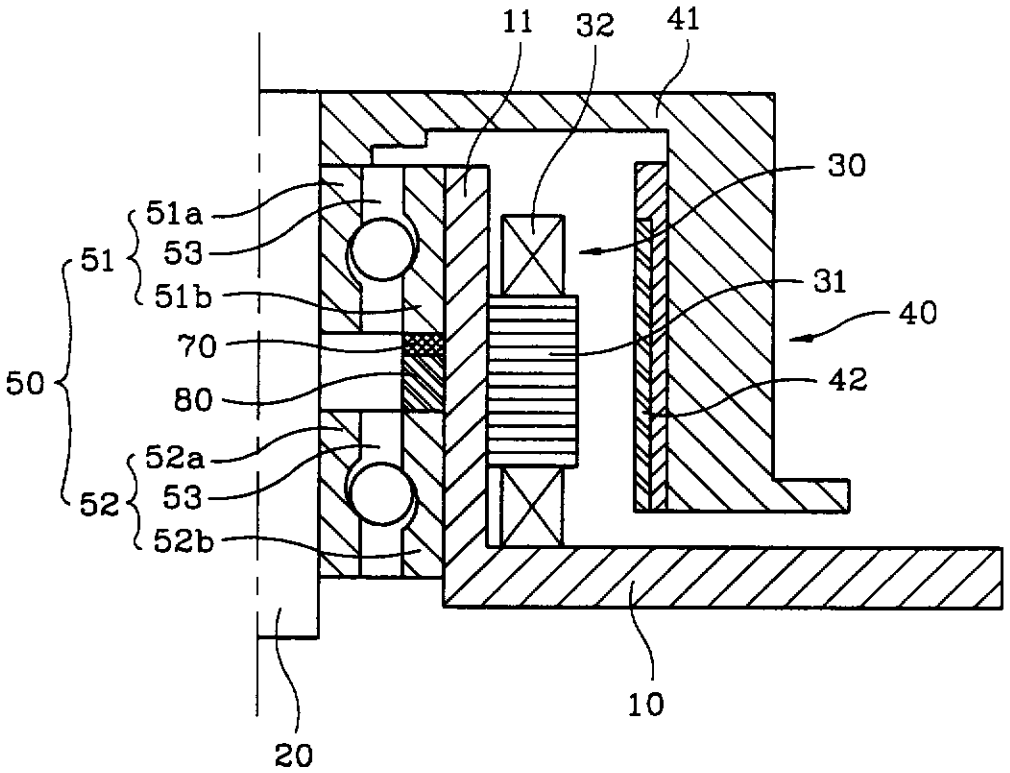

11
32
41
30
51a
53
51
51b
31
40
70
50
80
42
52a
53
52
52b
10
20

FIG.6

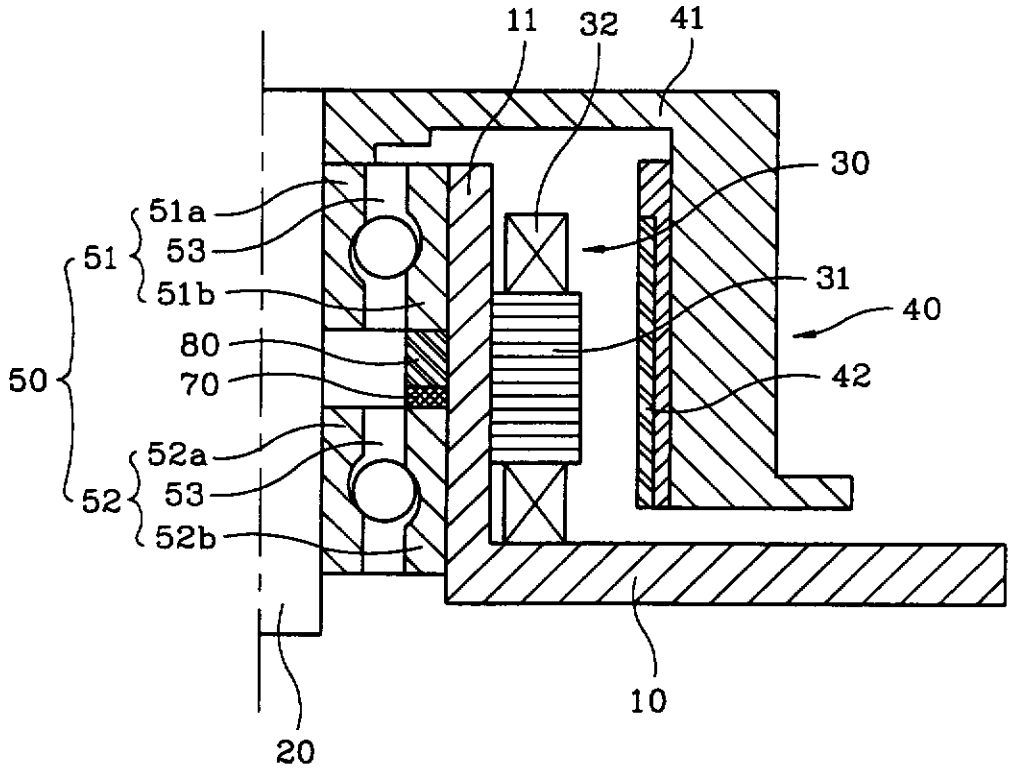

11
32
41
30
51a
53
51
51b
31
40
80
50
70
42
52a
53
52
52b
10
20

FIG.7

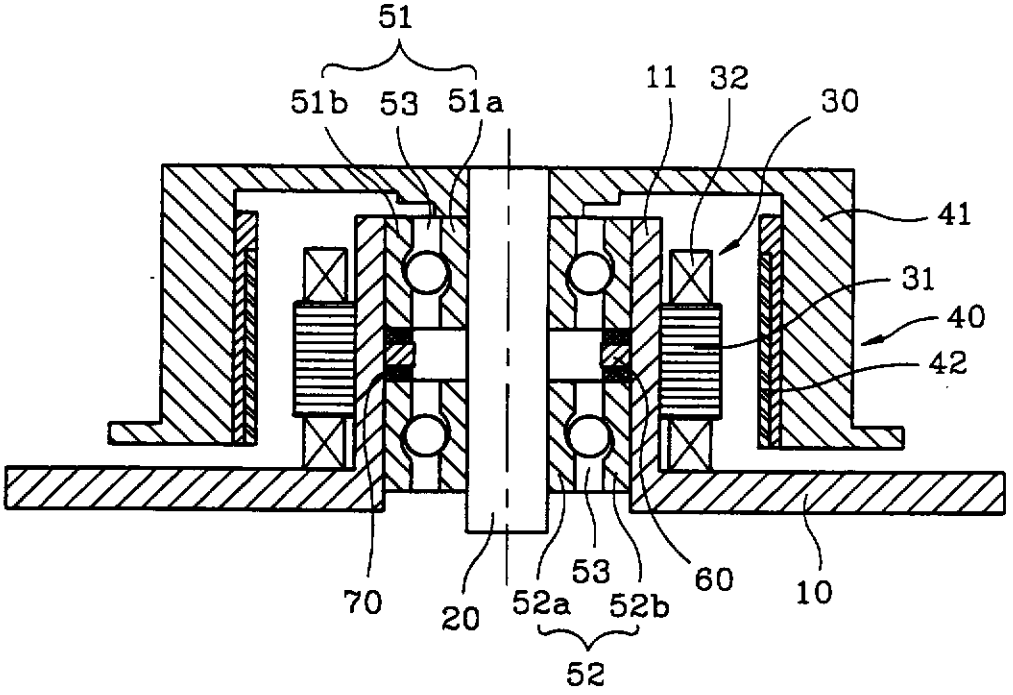
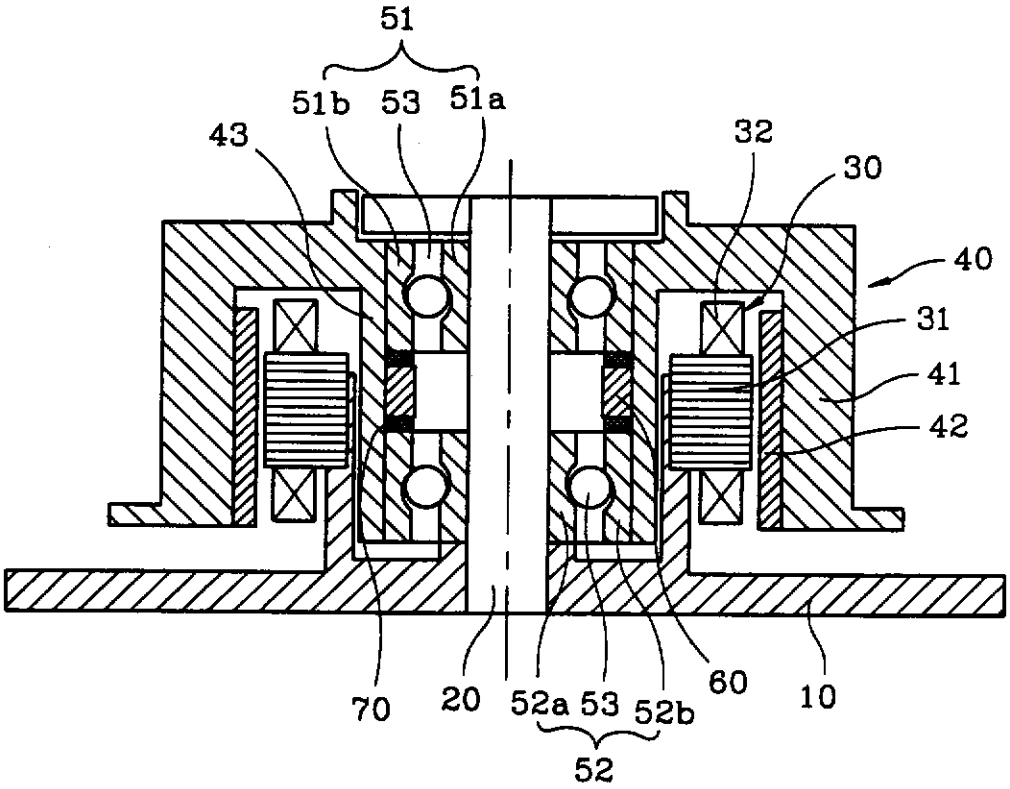

51
51b
53
51a
11
32
30
41
31
40
42
70
20
52a
53
52b
60
10
52

FIG.8


51
51b
53
51a
43
32
30
40
31
41
42
70
20
52a
53
52b
60
10
52

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FIG.9

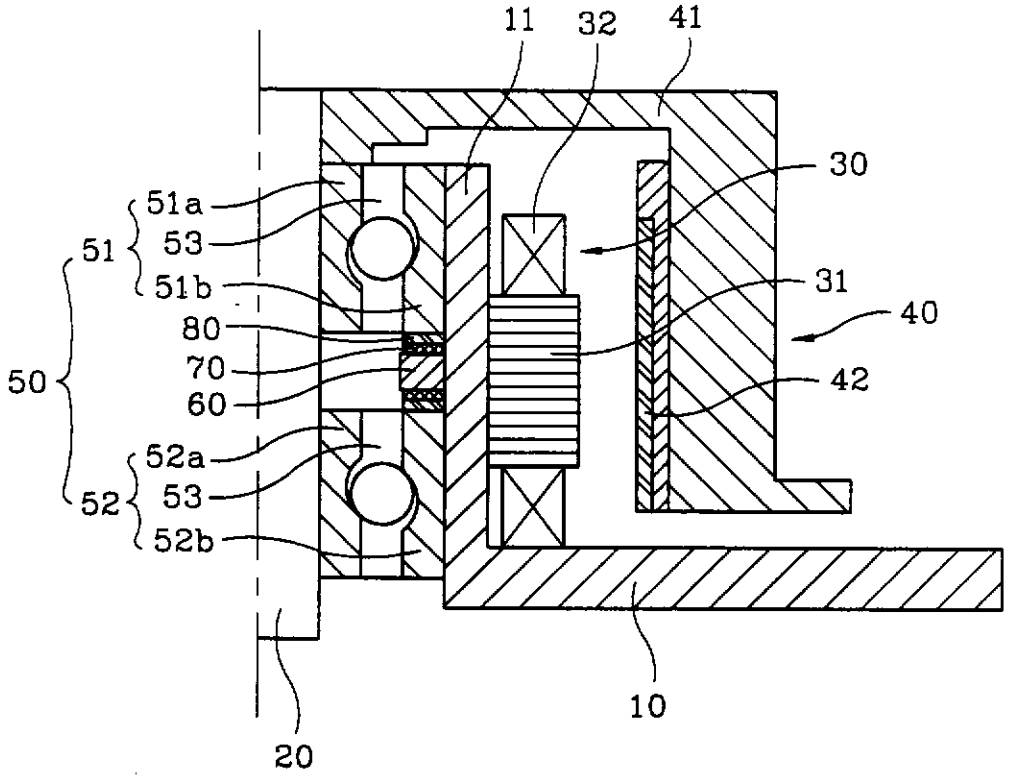


FIG.10

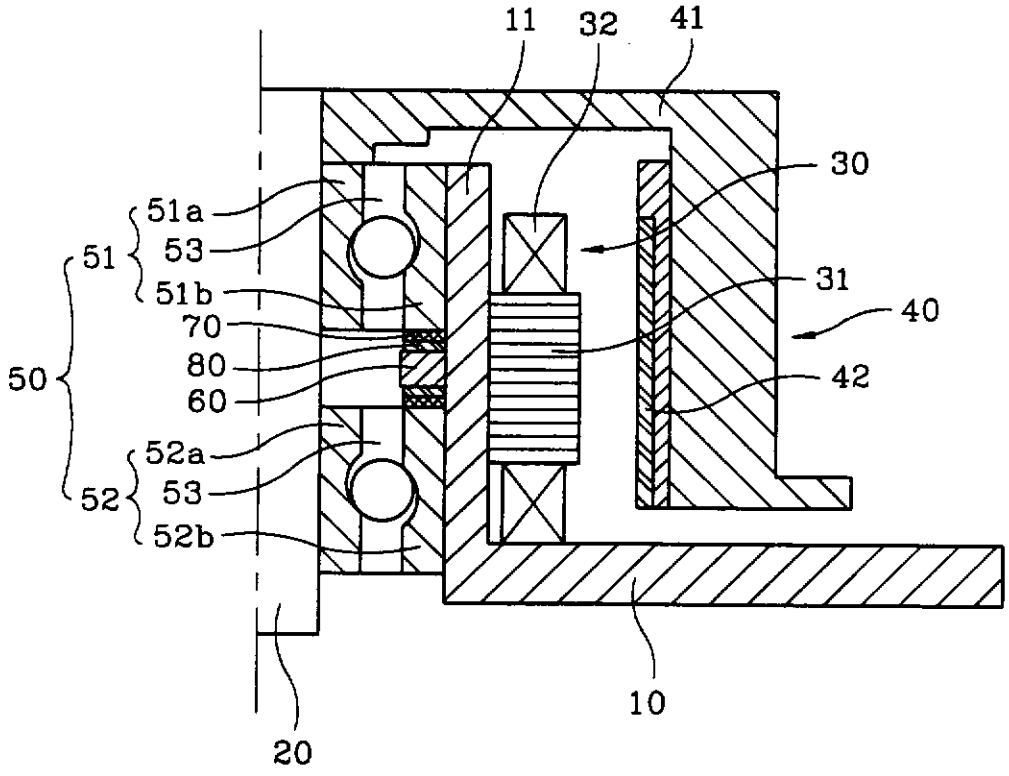


FIG.11

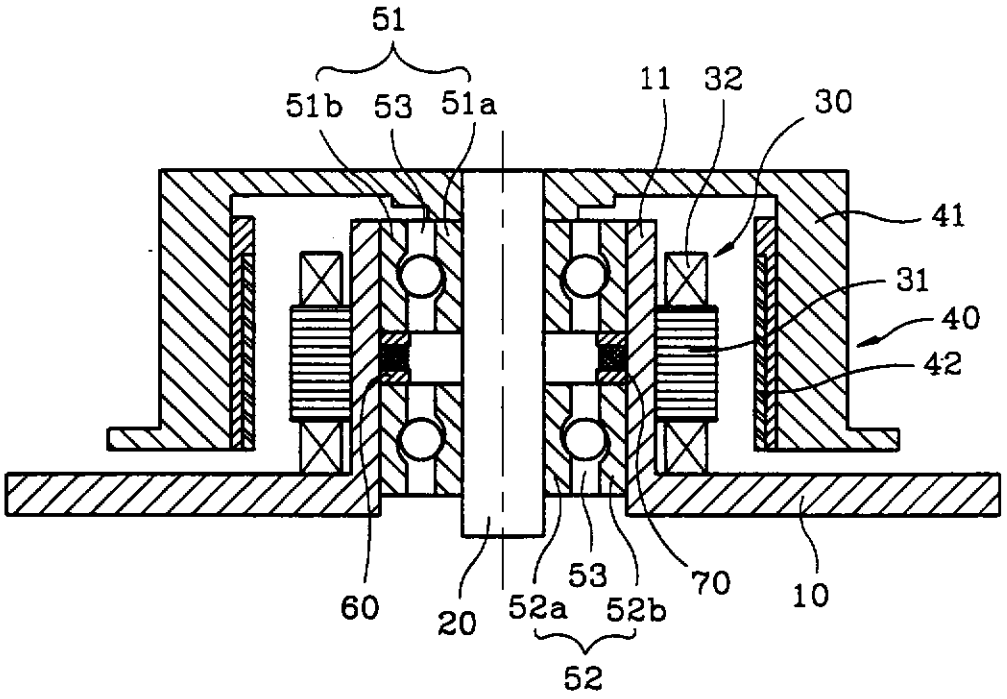

51
51b
53
51a
11
32
30
41
31
40
42
60
20
52a
53
52b
70
10
52

FIG.12

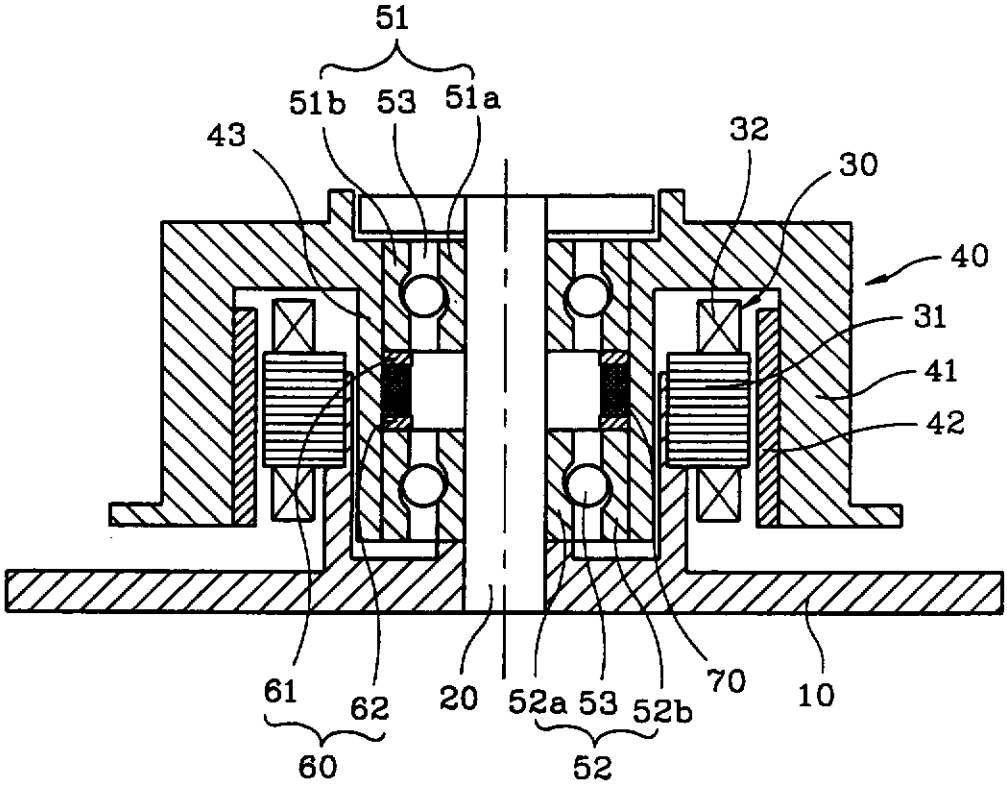

51
51b
53
51a
43
32
30
40
31
41
42
61
62
60
20
52a
53
52b
70
10
52

FIG.13

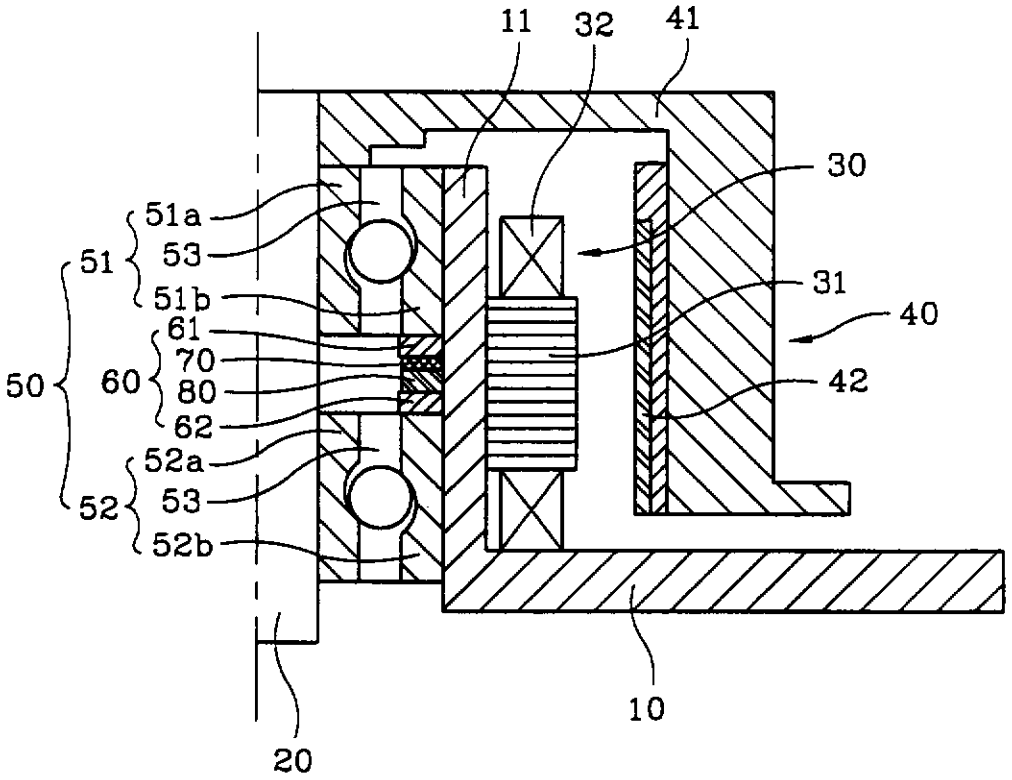

11
32
41
30
31
40
42
51a
53
51
51b
61
70
60
80
62
50
52a
53
52
52b
10
20

FIG.14

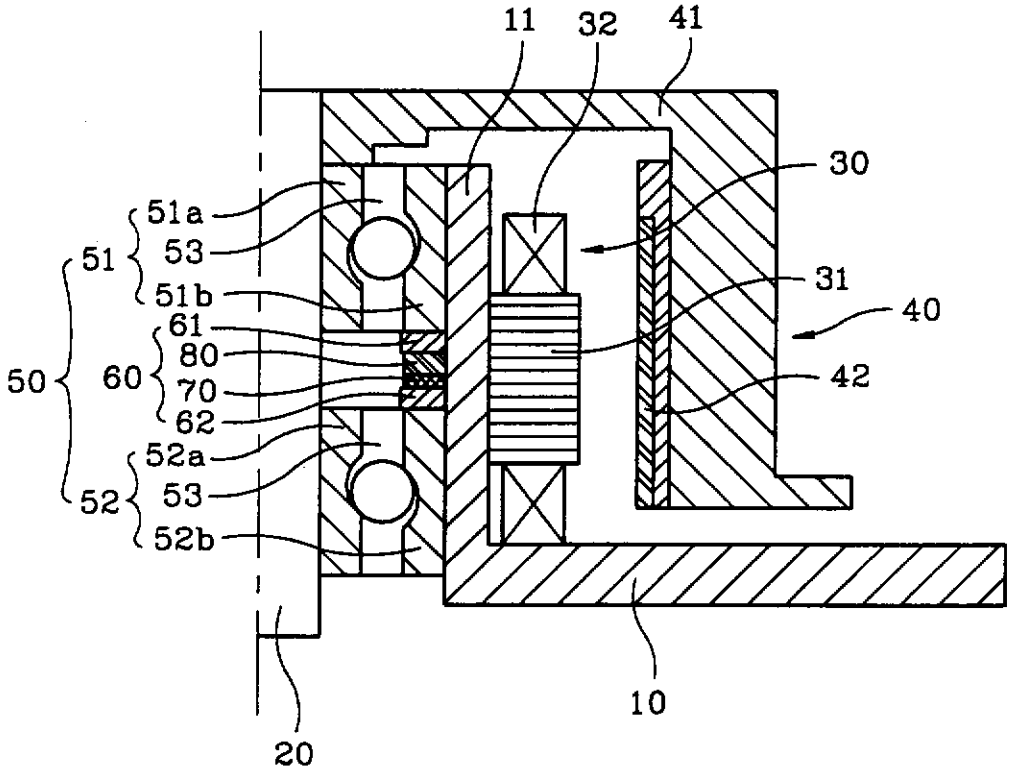

11
32
41
30
31
40
42
51a
53
51
51b
61
80
60
70
62
50
52a
53
52
52b
10
20

FIG.15

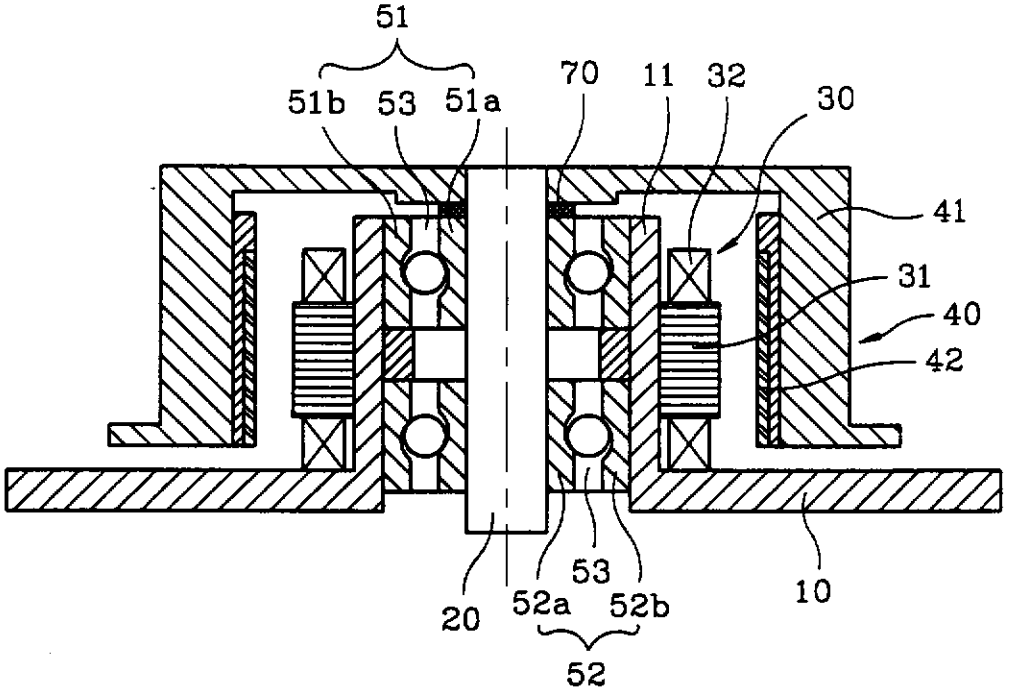

51
51b
53
51a
70
11
32
30
41
31
40
42
20
52a
53
52b
52
10

FIG.16

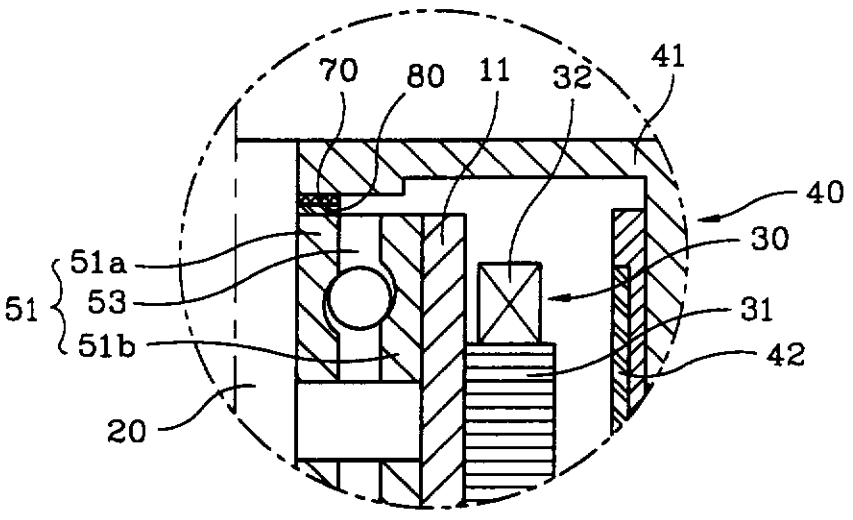

70
80
11
32
41
40
30
51a
53
51
51b
31
42
20

FIG.17

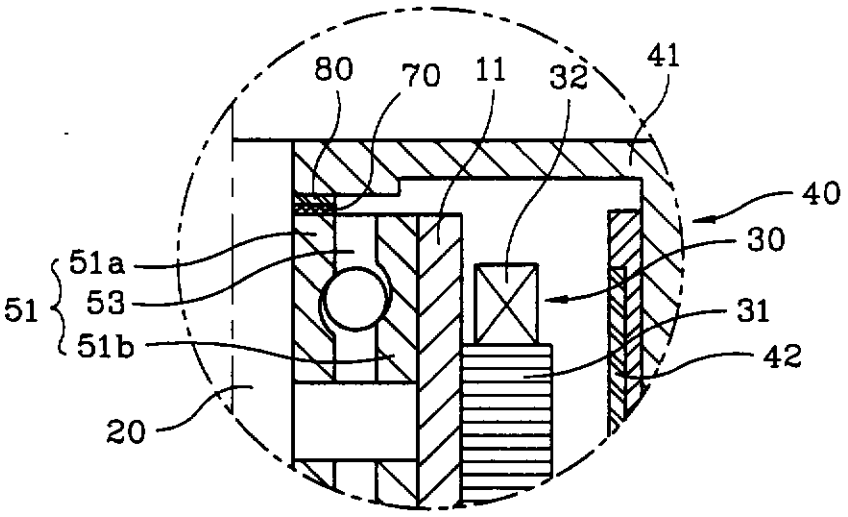

80
70
11
32
41
40
30
51a
53
51
51b
31
42
20

FIG.18

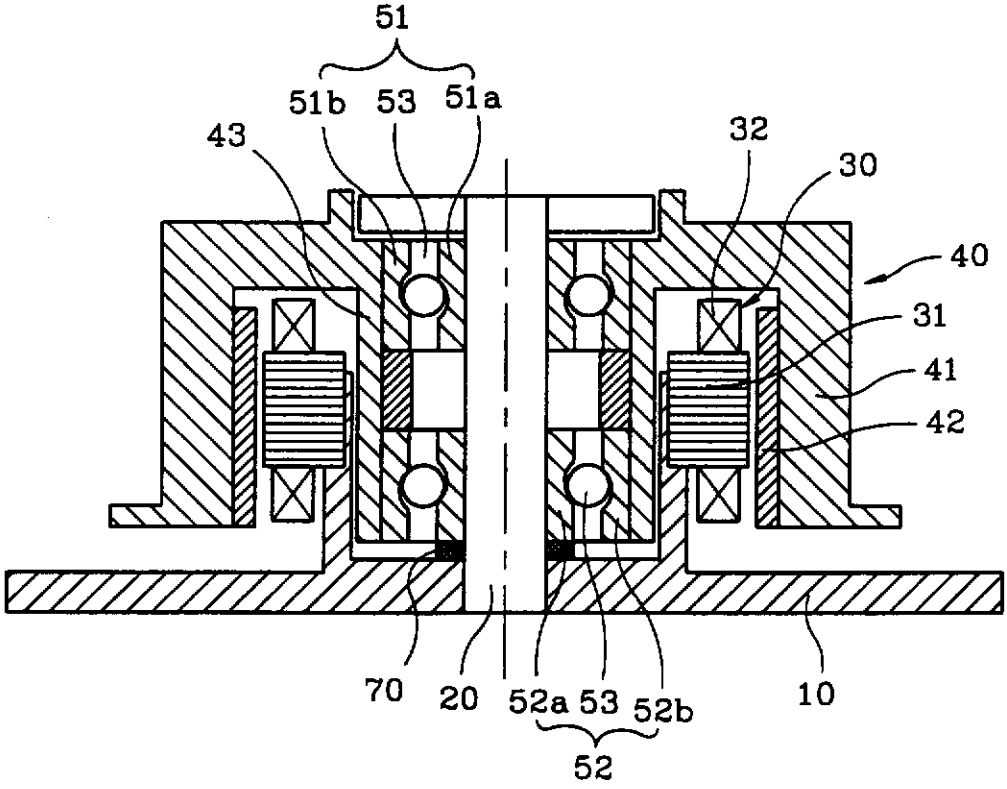

51
51b
53
51a
43
32
30
40
31
41
42
70
20
52a
53
52b
10
52

FIG.19

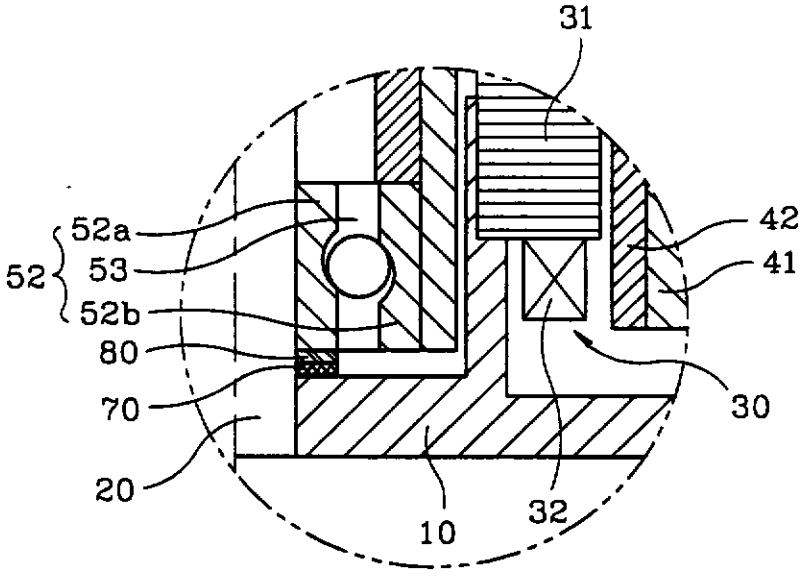
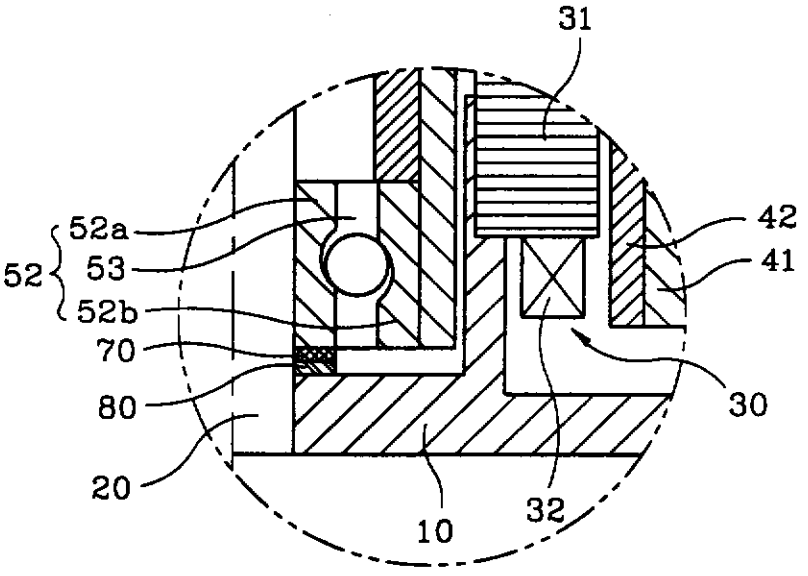

31
52a
52
53
52b
80
70
20
10
32
42
41
30

FIG.20


31
52a
52
53
52b
70
80
20
10
32
42
41
30

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FIG.21

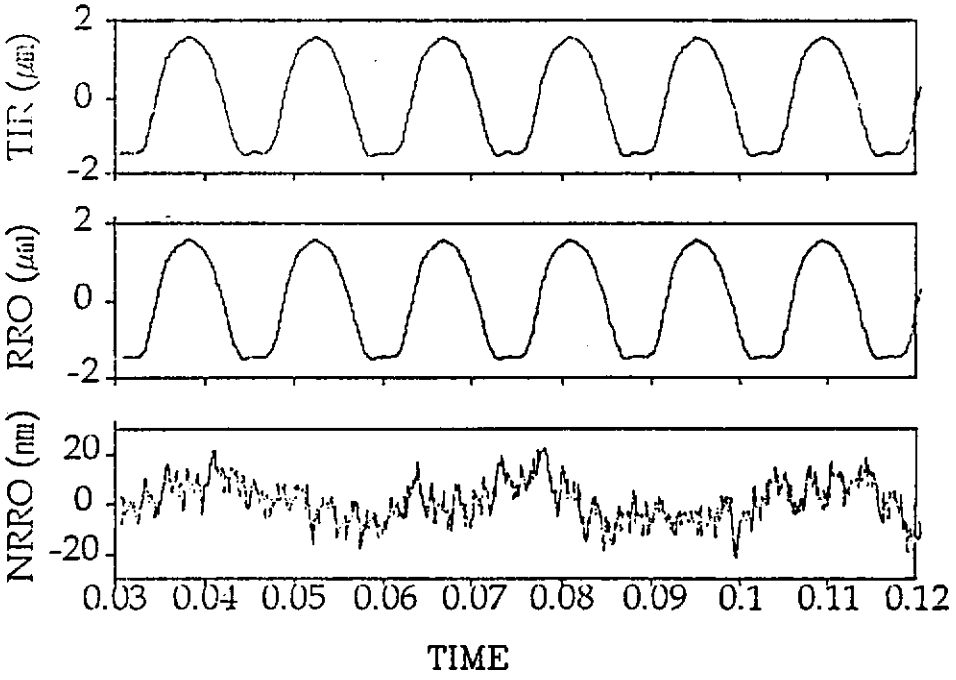
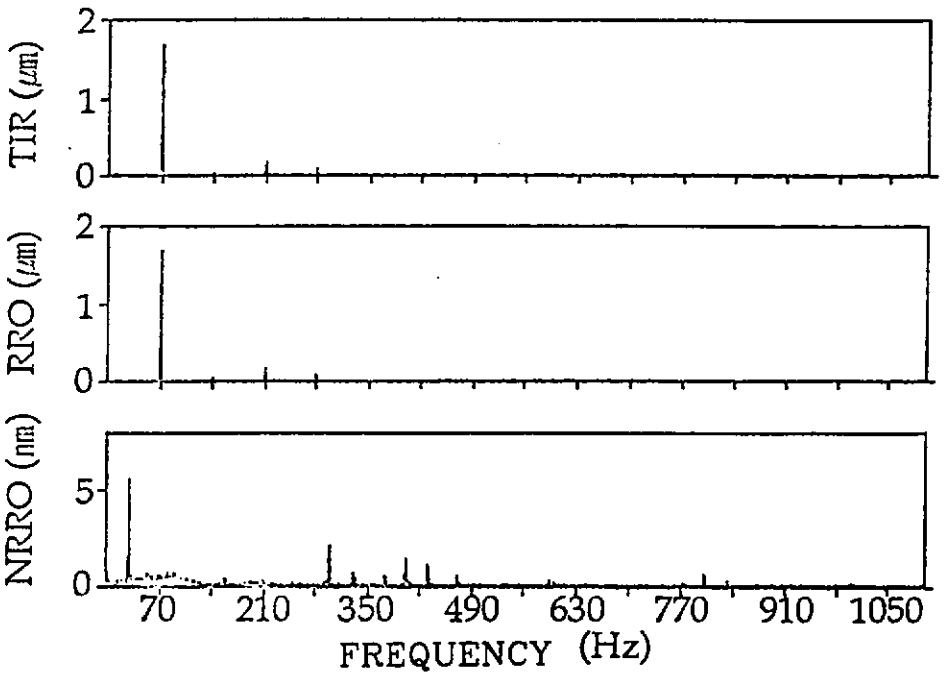


FIG.22



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FIG.23

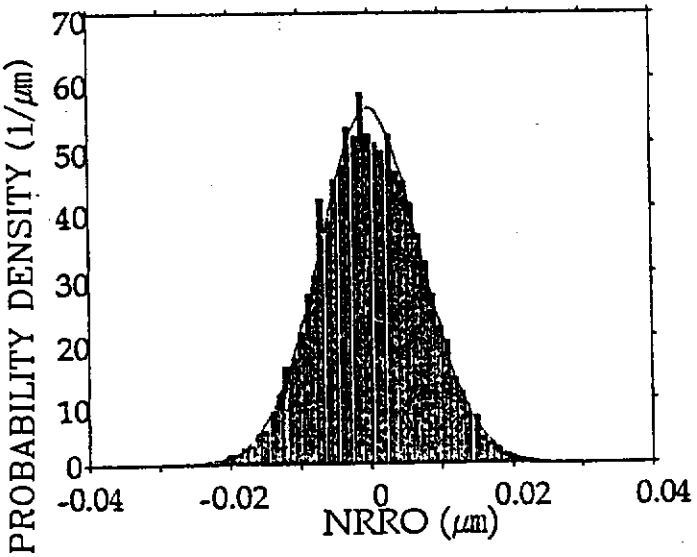


FIG.24

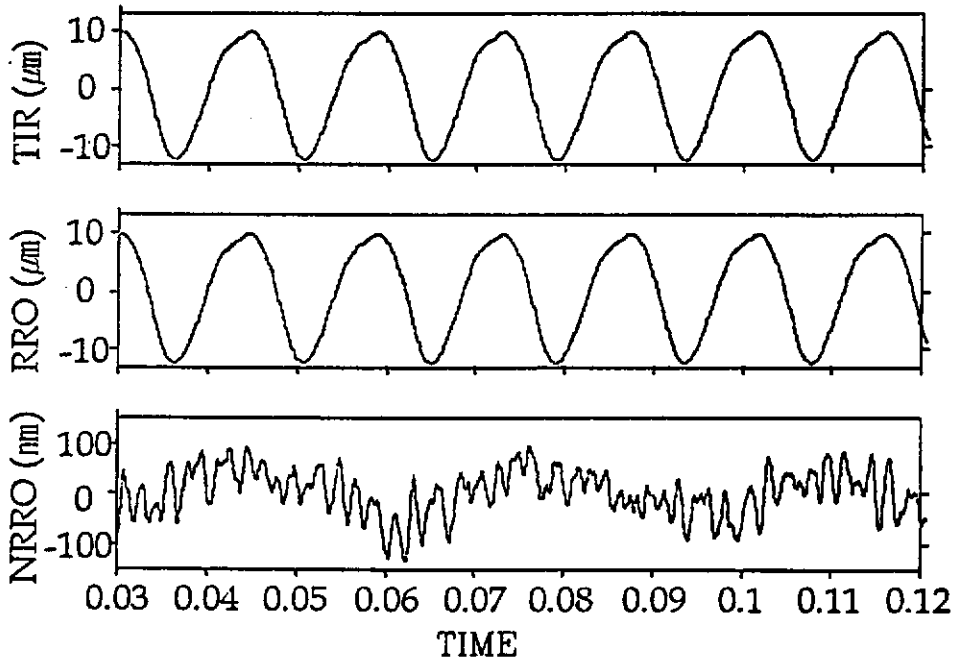


FIG.25

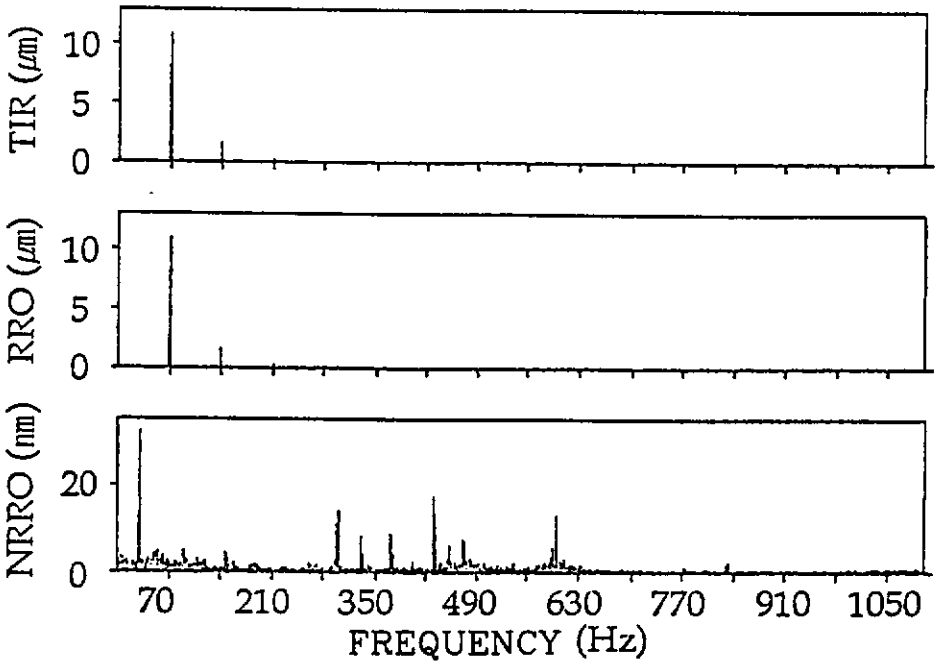

TIR (μm)
10
5
0
RRO (μm)
10
5
0
NRRO (nm)
20
0
70
210
350
490
630
770
910
1050
FREQUENCY (Hz)

FIG.26

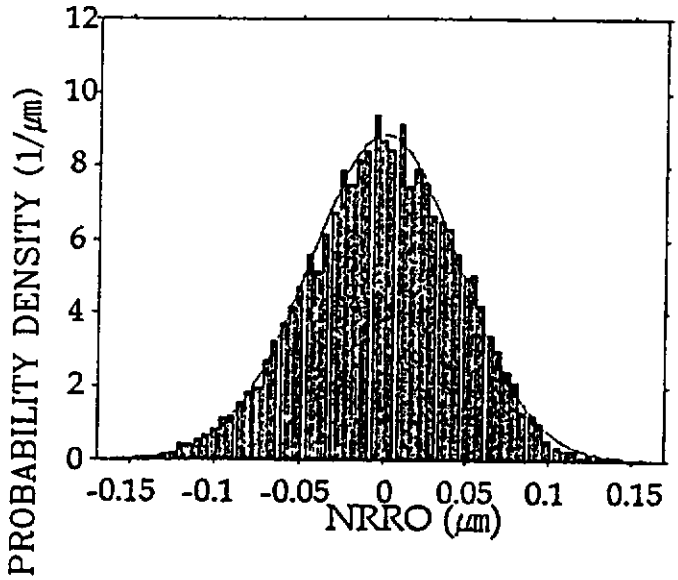

PROBABILITY DENSITY (1/μm)
12
10
8
6
4
2
0
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
NRRO (μm)

FIG.27

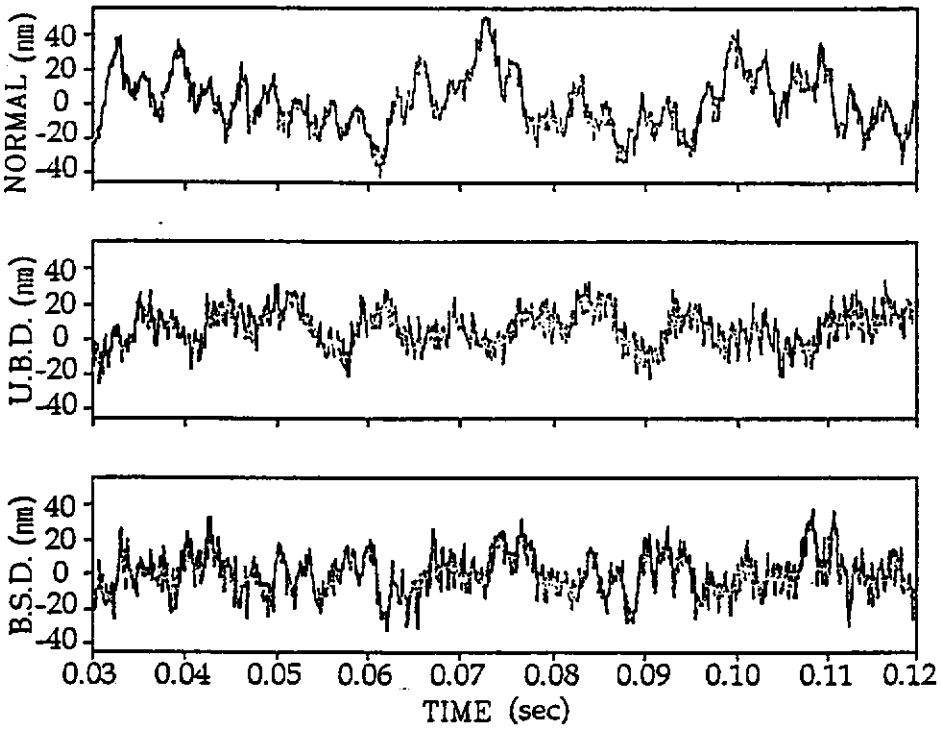

NORMAL (nm)
U.B.D. (nm)
B.S.D. (nm)
40
20
0
-20
-40
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
0.11
0.12
TIME (sec)

FIG.28

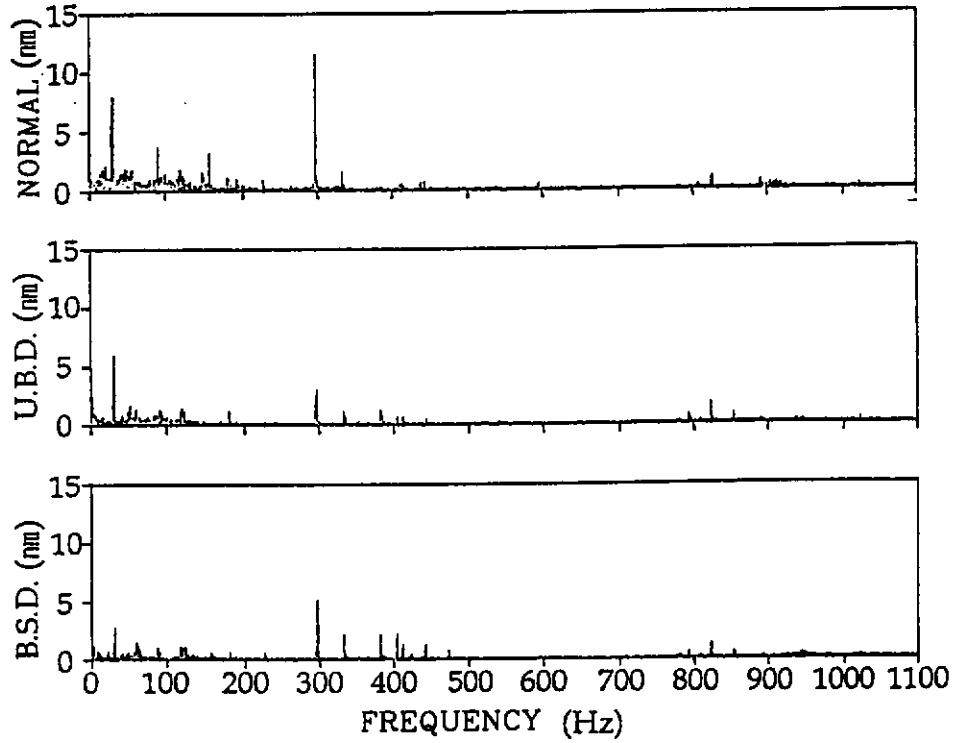

NORMAL (nm)
U.B.D. (nm)
B.S.D. (nm)
15
10
5
0
0
100
200
300
400
500
600
700
800
900
1000
1100
FREQUENCY (Hz)

FIG.29

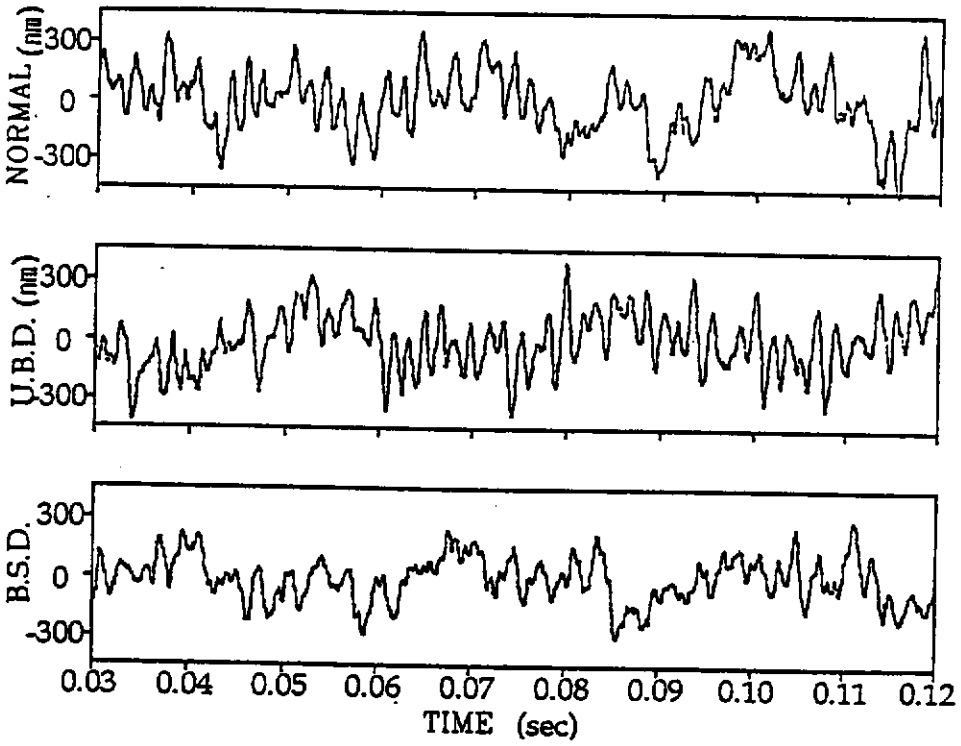

NORMAL (nm)
300
0
-300
U.B.D. (nm)
300
0
-300
B.S.D.
300
0
-300
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
0.11
0.12
TIME (sec)

FIG.30

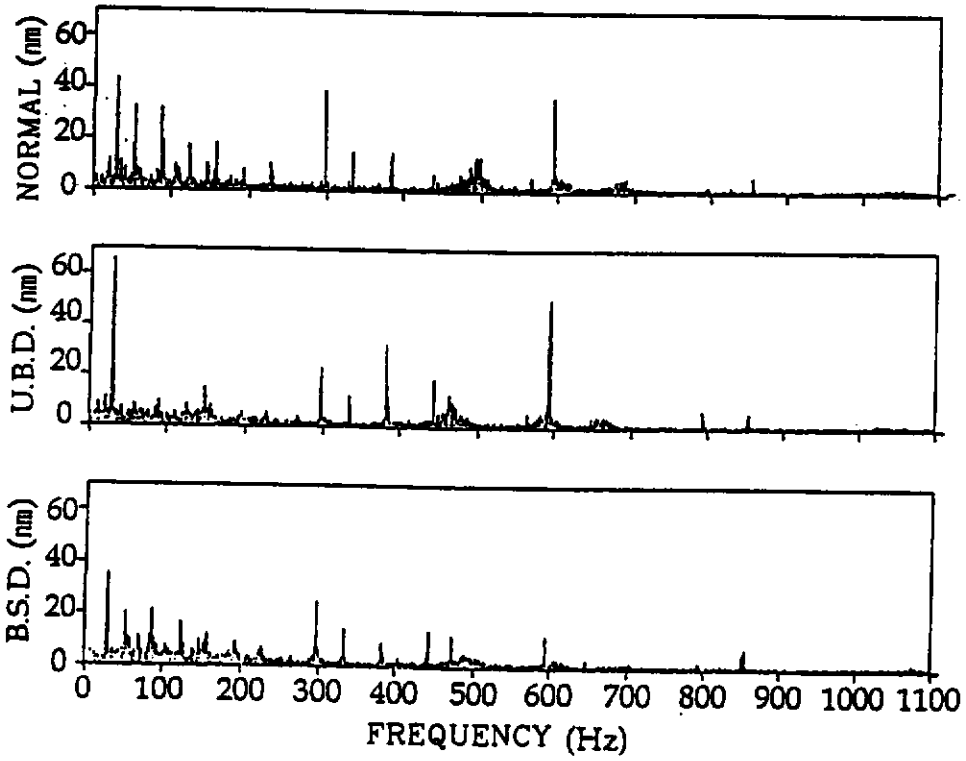
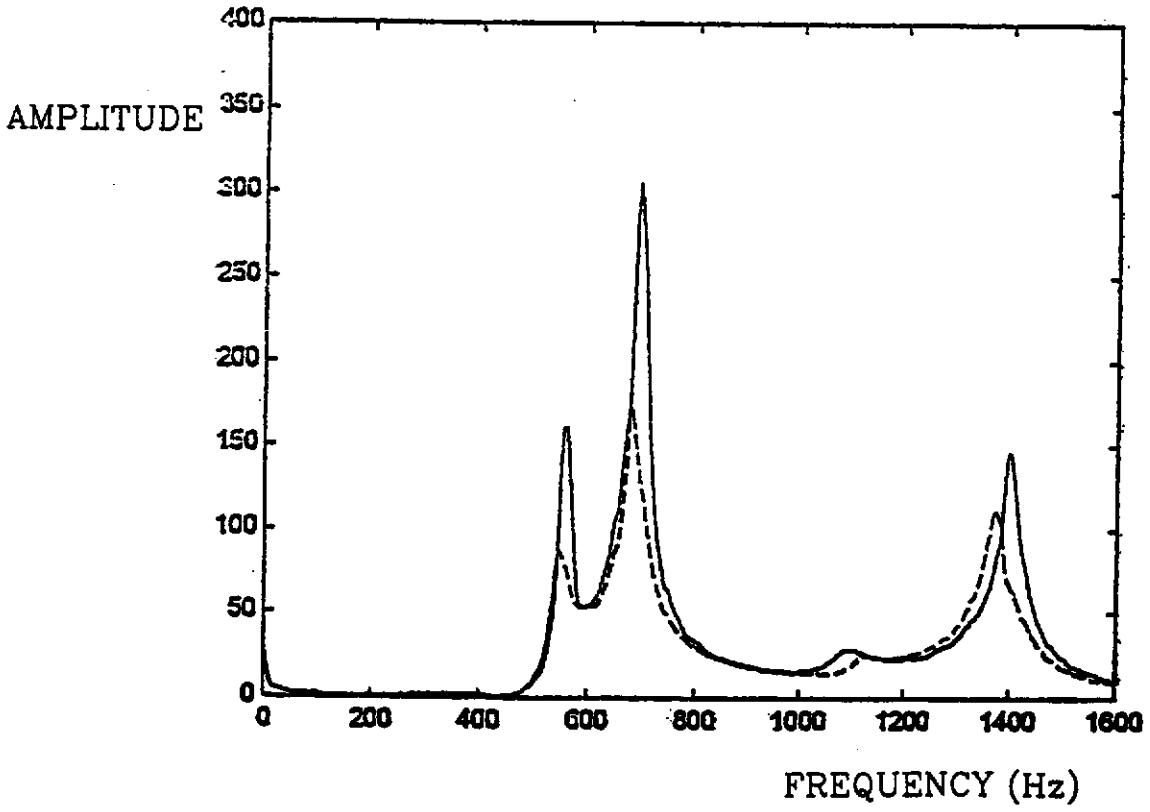

NORMAL (nm)
60
40
20
0
U.B.D. (nm)
60
40
20
0
B.S.D. (nm)
60
40
20
0
0
100
200
300
400
500
600
700
800
900
1000
1100
FREQUENCY (Hz)

FIG.31


AMPLITUDE
400
350
300
250
200
150
100
50
0
0
200
400
600
800
1000
1200
1400
1600
FREQUENCY (Hz)