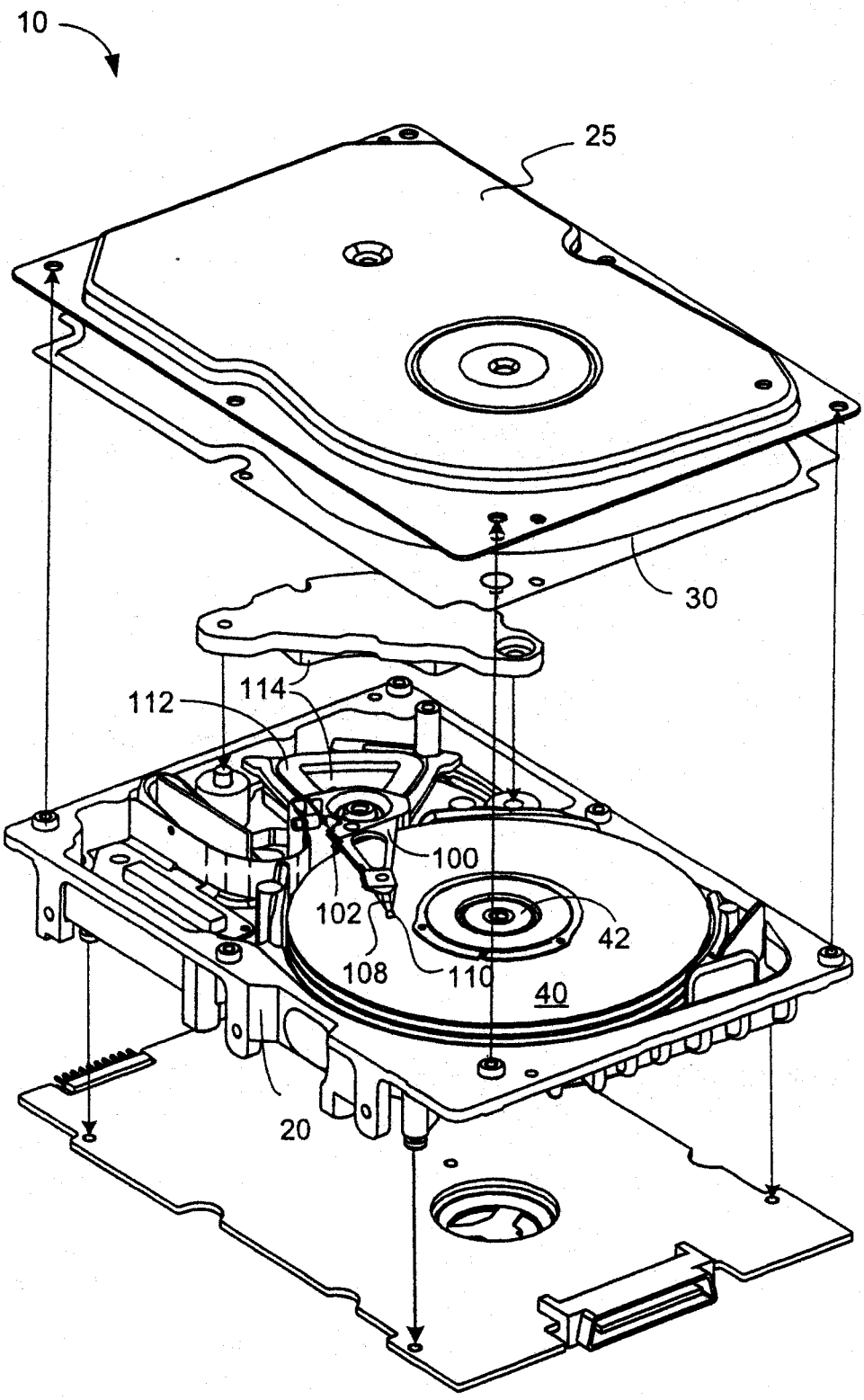


FIG. 1

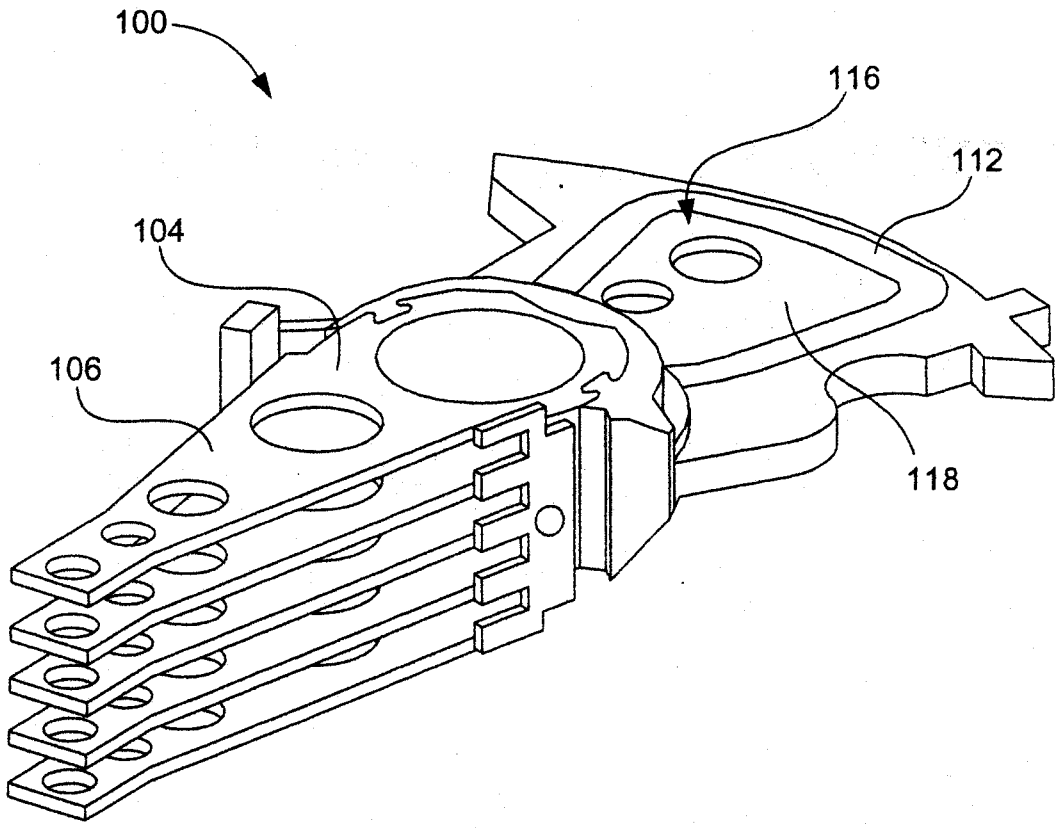


FIG. 2

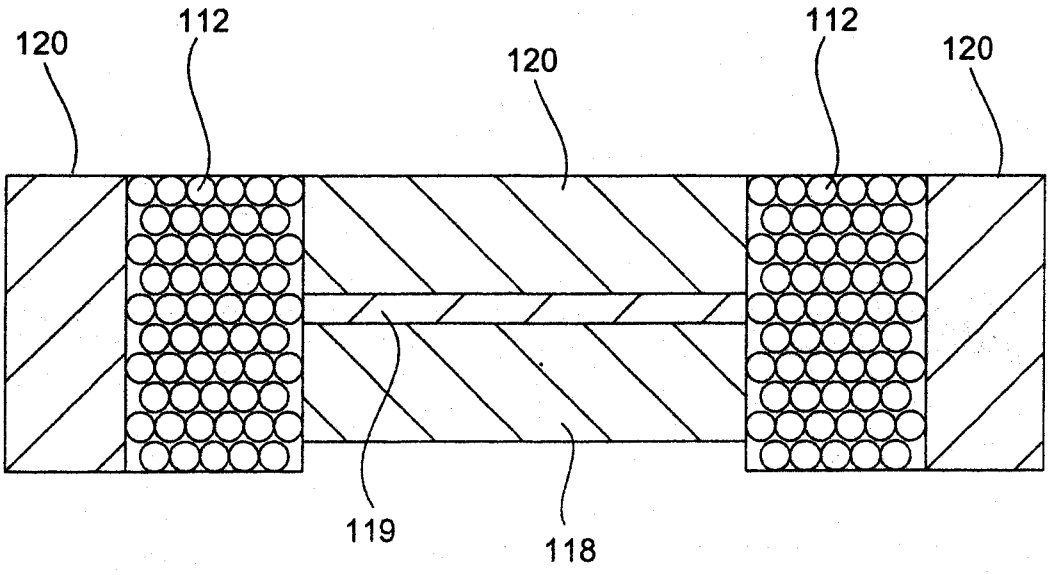


FIG. 3

Seek

	Sound Pressure Measurement At 1/3 Octave Band																							Overall
	100	125	160	200	250	315	400	500	630	800	1K	1.25K	1.6K	2K	2.5K	3.15K	4K	5K	6.3K	8K	10K	12.5K	16K	20K	dB(A)
Prior Art Disc Drive	15.0	17.0	14.8	7.1	-1.1	0.5	1.5	9.8	14.3	14.9	11.7	14.5	11.1	15.3	17.1			14.1	14.0	9.3	9.4	8.3	5.6	2.0	28.2
Damped/Constrained Disc Drive	15.0	14.5	12.2	5.4	-1.9	0.5	-0.6	6.0	9.5	12.8		11.5	12.4	14.2	17.5		15.3	14.8	12.4	8.5	8.2	9.0	5.1	0.9	26.3

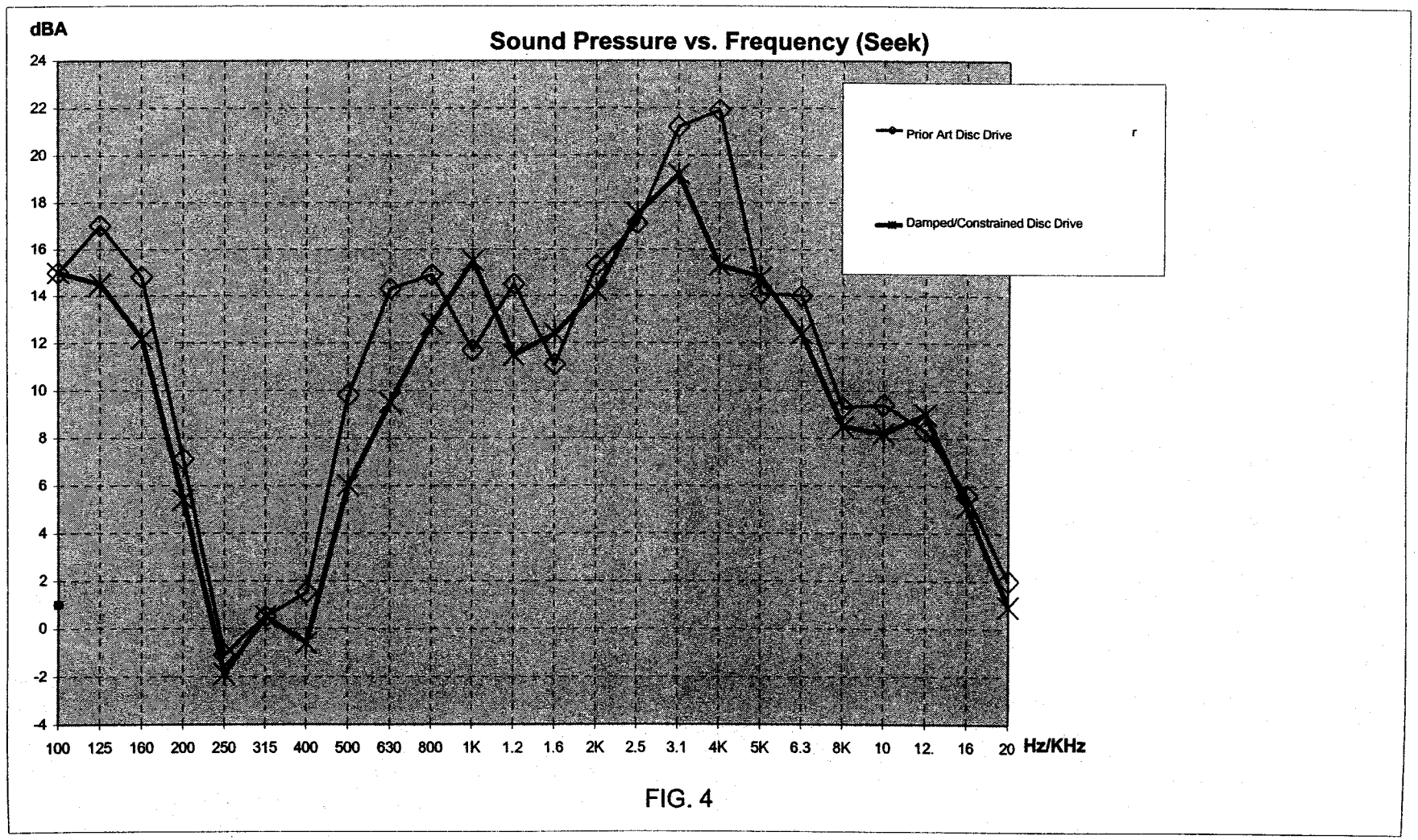


FIG. 4

11 NOV 2003

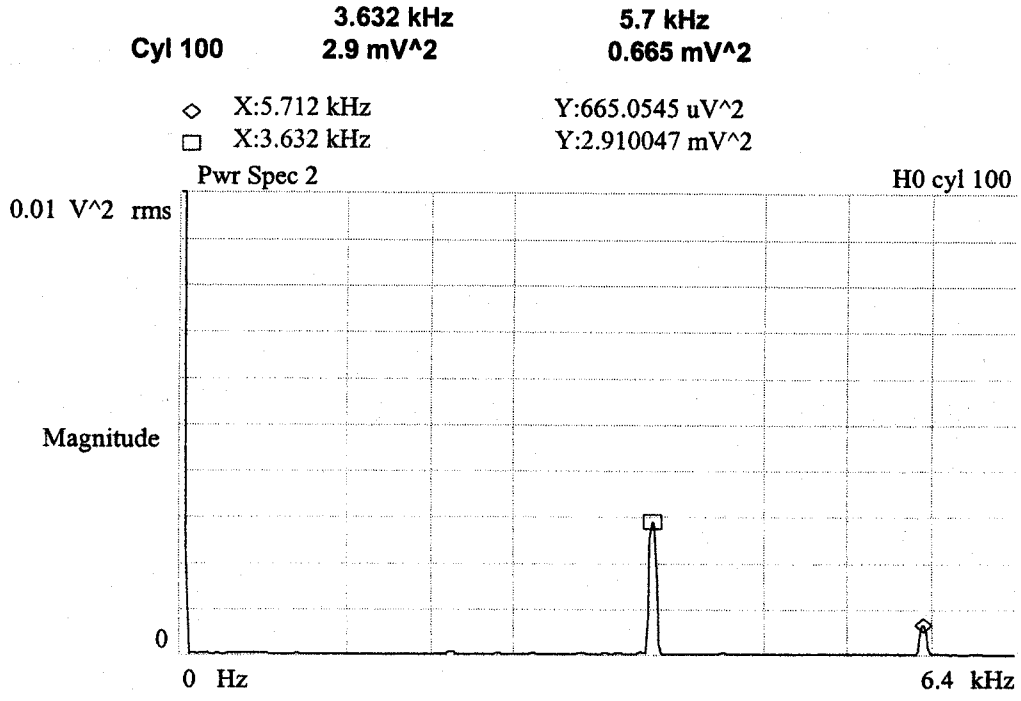

3.632 kHz
5.7 kHz
Cyl 100
2.9 mV^2
0.665 mV^2
X:5.712 kHz
Y:665.0545 uV^2
X:3.632 kHz
Y:2.910047 mV^2
Pwr Spec 2
H0 cyl 100
0.01 V^2 rms
Magnitude
0
0 Hz
6.4 kHz

FIG. 5

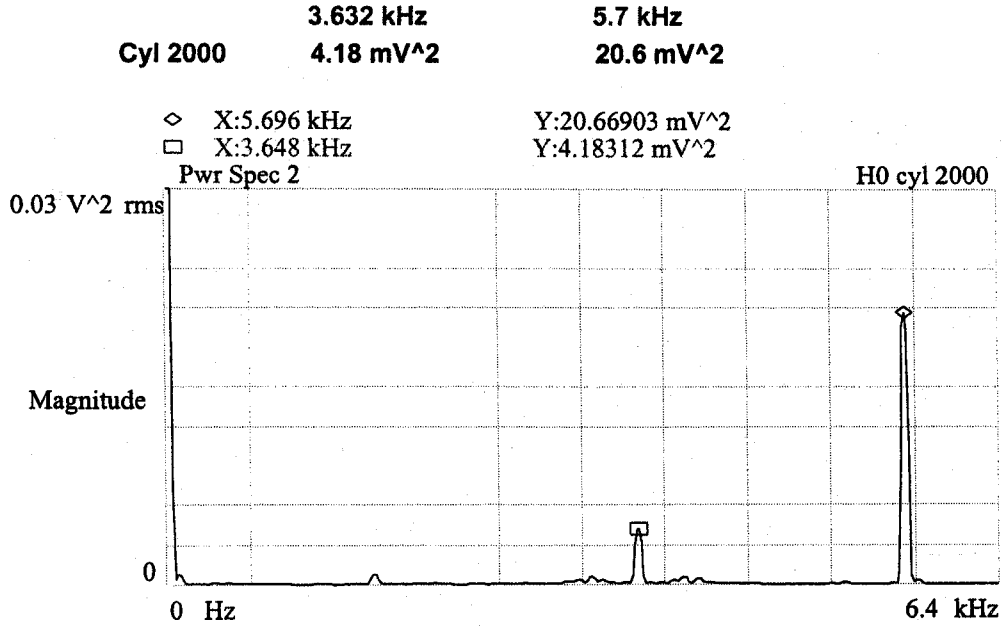

3.632 kHz
5.7 kHz
Cyl 2000
4.18 mV^2
20.6 mV^2
X:5.696 kHz
Y:20.66903 mV^2
X:3.648 kHz
Y:4.18312 mV^2
Pwr Spec 2
H0 cyl 2000
0.03 V^2 rms
Magnitude
0
0 Hz
6.4 kHz

FIG. 6

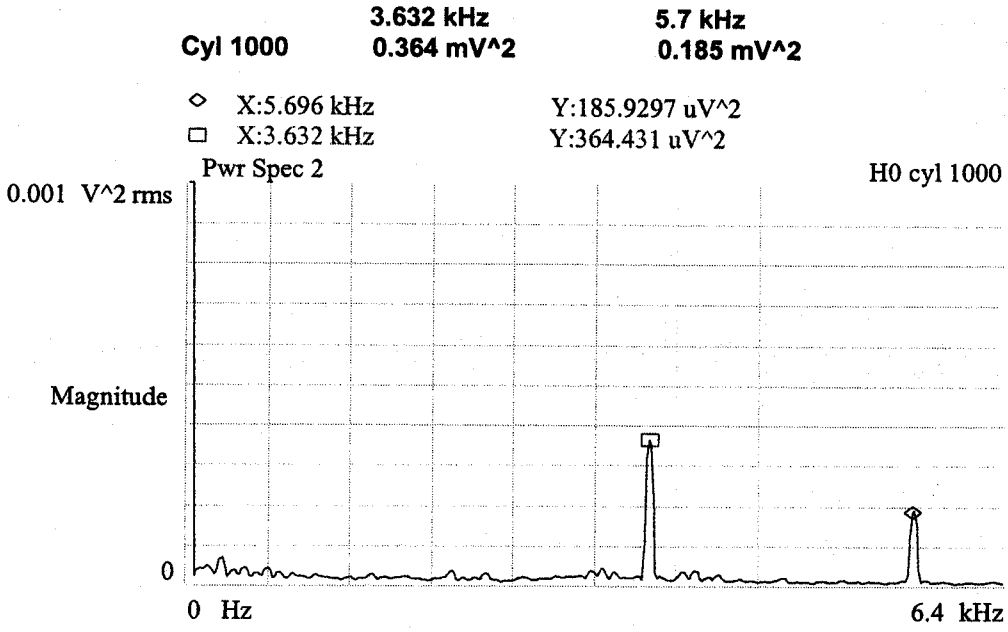

3.632 kHz
5.7 kHz
Cyl 1000
0.364 mV^2
0.185 mV^2
X:5.696 kHz
Y:185.9297 uV^2
X:3.632 kHz
Y:364.431 uV^2
Pwr Spec 2
H0 cyl 1000
0.001 V^2 rms
Magnitude
0
0 Hz
6.4 kHz

FIG. 7

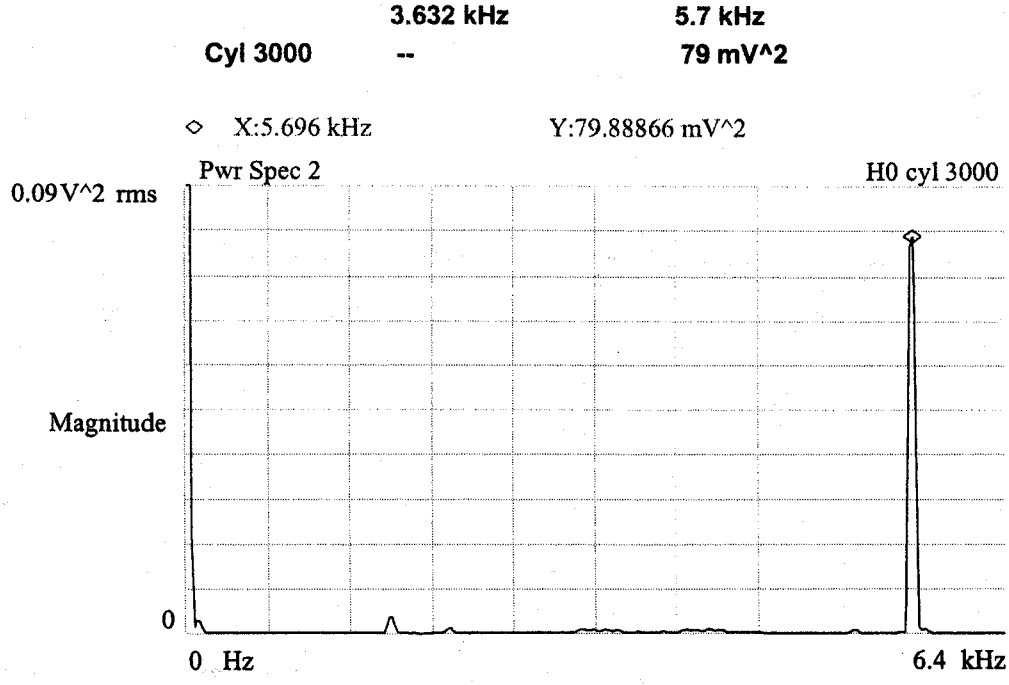

3.632 kHz
5.7 kHz
Cyl 3000
--
79 mV^2
X:5.696 kHz
Y:79.88866 mV^2
Pwr Spec 2
H0 cyl 3000
0.09V^2 rms
Magnitude
0
0 Hz
6.4 kHz

FIG. 8

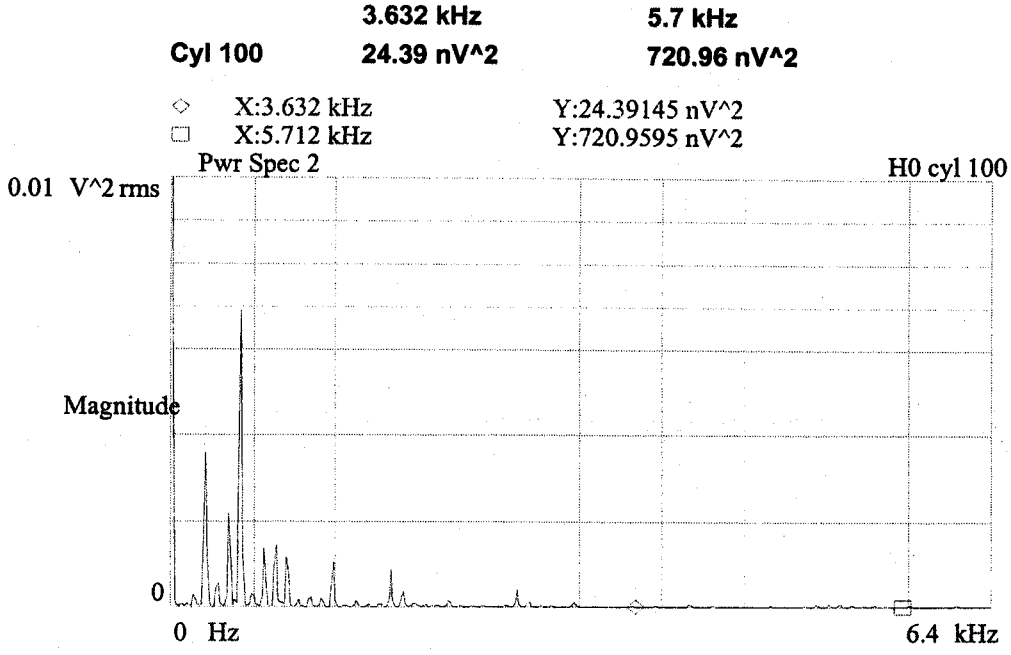

3.632 kHz
5.7 kHz
Cyl 100
24.39 nV^2
720.96 nV^2
X:3.632 kHz
Y:24.39145 nV^2
X:5.712 kHz
Y:720.9595 nV^2
Pwr Spec 2
H0 cyl 100
0.01 V^2 rms
Magnitude
0
0 Hz
6.4 kHz

FIG. 9

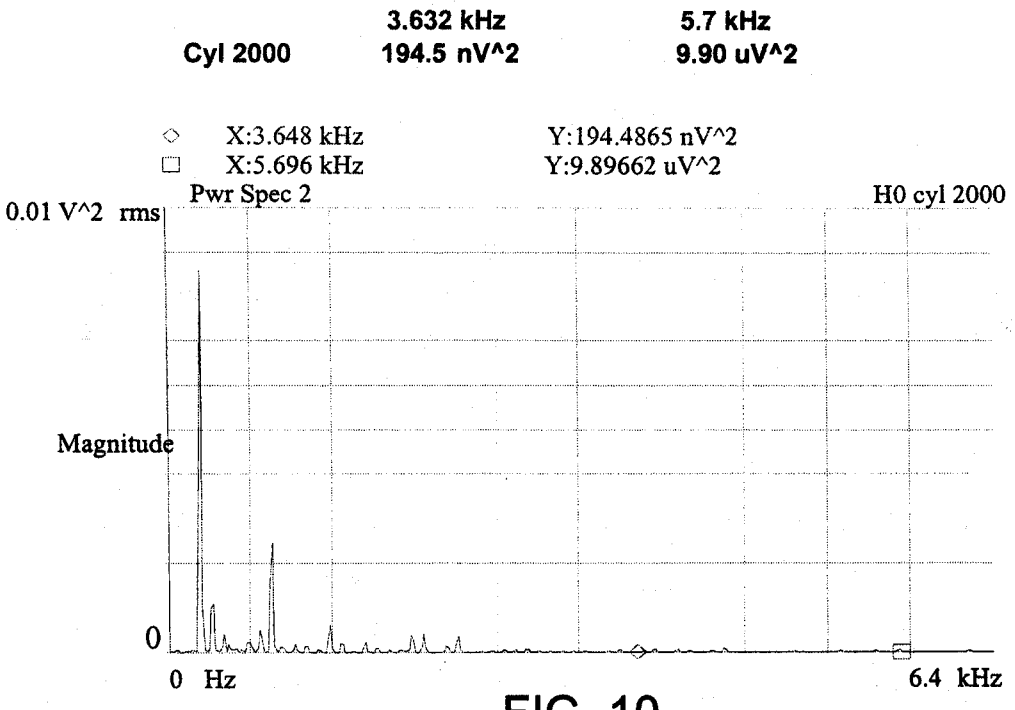

3.632 kHz
5.7 kHz
Cyl 2000
194.5 nV^2
9.90 uV^2
X:3.648 kHz
Y:194.4865 nV^2
X:5.696 kHz
Y:9.89662 uV^2
Pwr Spec 2
H0 cyl 2000
0.01 V^2 rms
Magnitude
0
0 Hz
6.4 kHz

FIG. 10

11 NOV 2003

	3.632 kHz	5.7 kHz
Cyl 1000	1.013 uV^2	3.152 uV^2

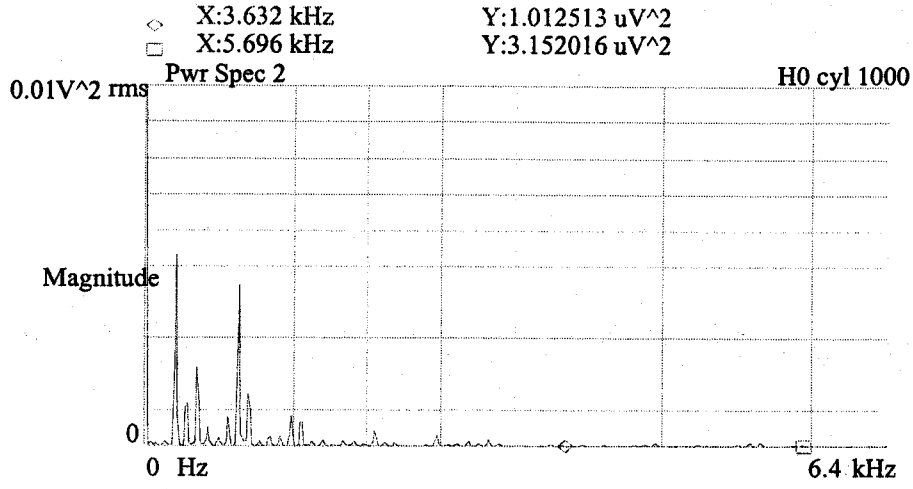


FIG. 11

	3.632 kHz	5.7 kHz
Cyl 3000	20.13 nV^2	193.7 nV^2

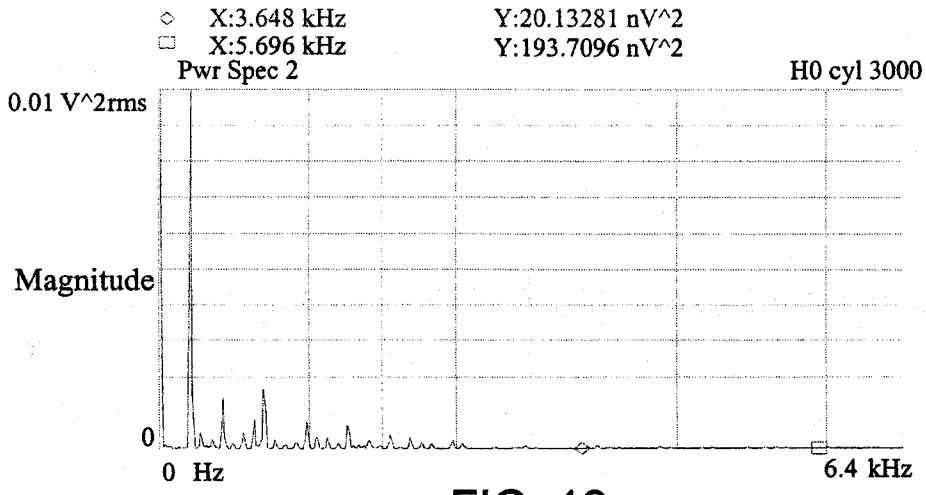


FIG. 12

Measurement taken from the actuator with the VCM coil being excited

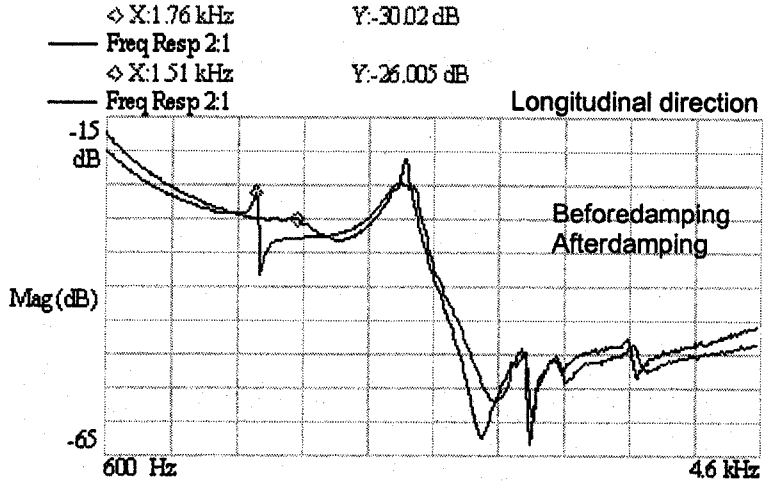


FIG. 13

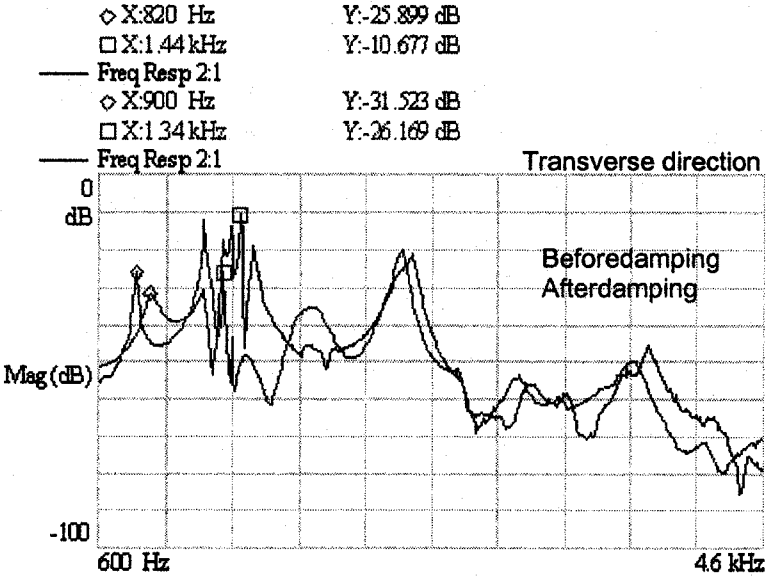


FIG. 14

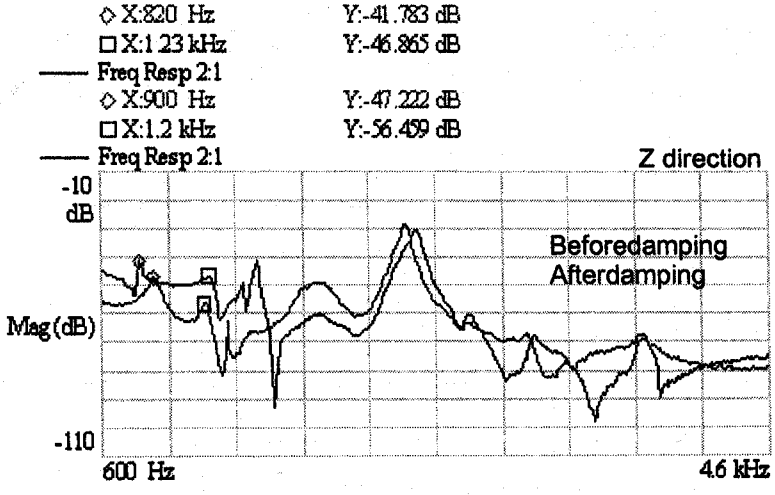


FIG. 15

11 NOV 2003

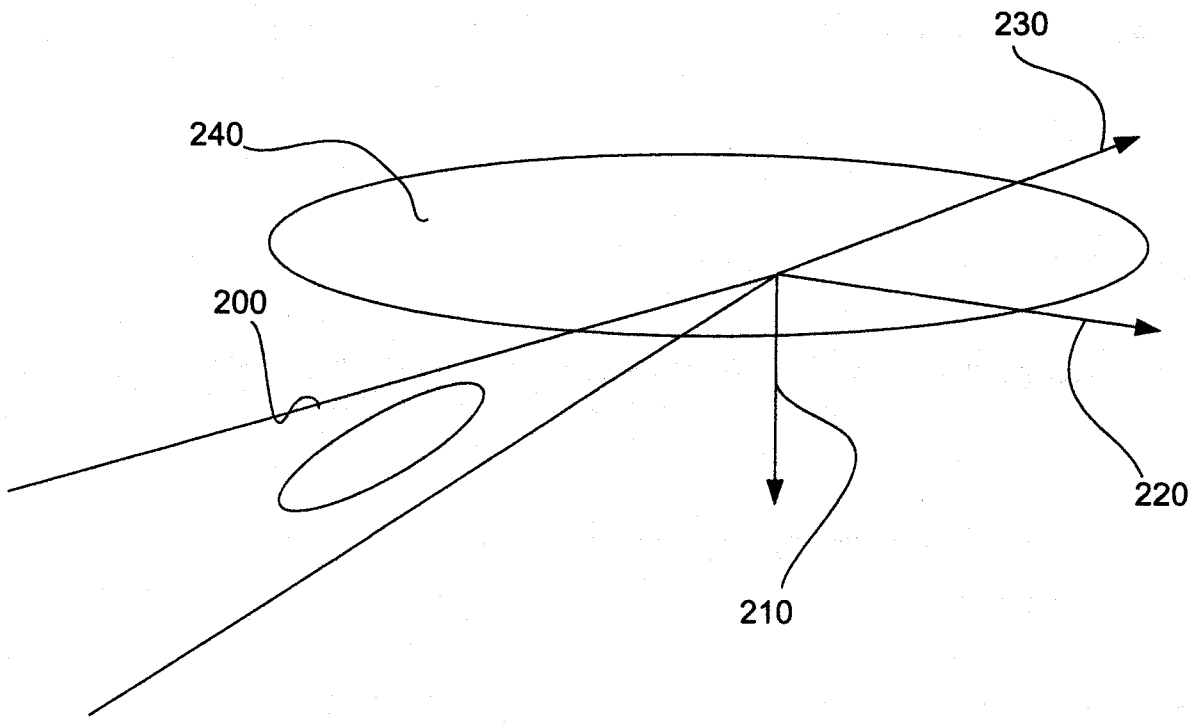


FIG. 16