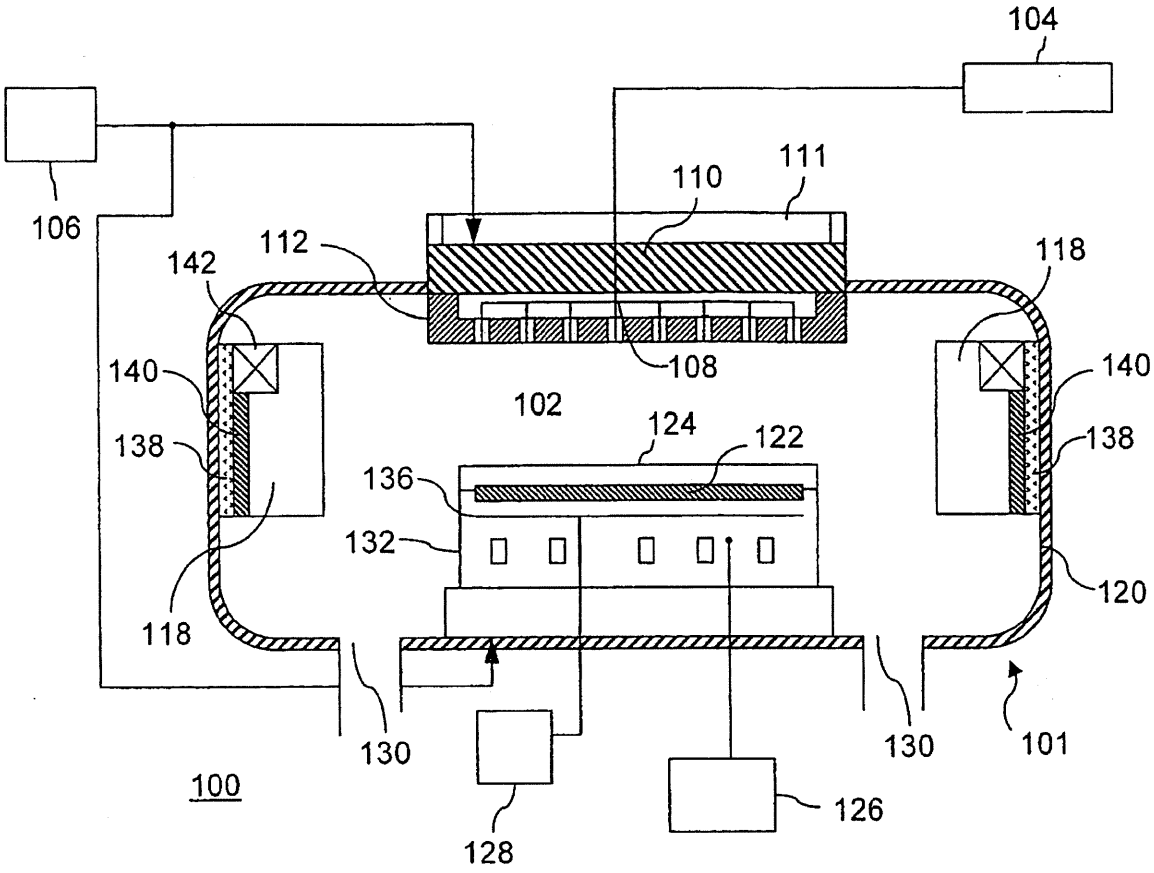

104
106
111
110
112
142
118
108
140
102
124
122
138
136
132
120
118
130
130
101
100
126
128

FIG. 1A

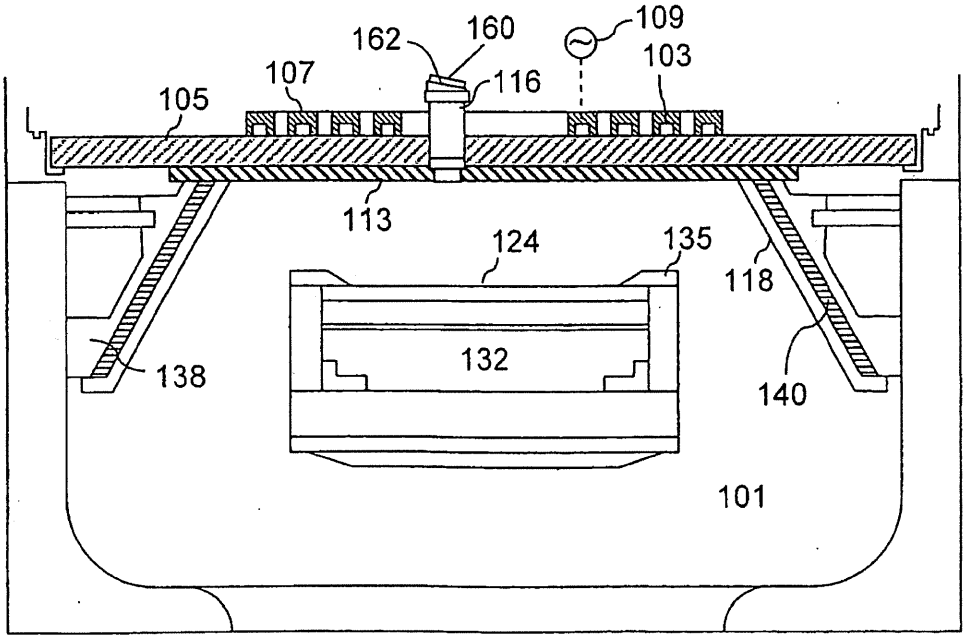

162
160
109
107
116
103
105
113
124
135
118
132
138
140
101

FIG. 1B

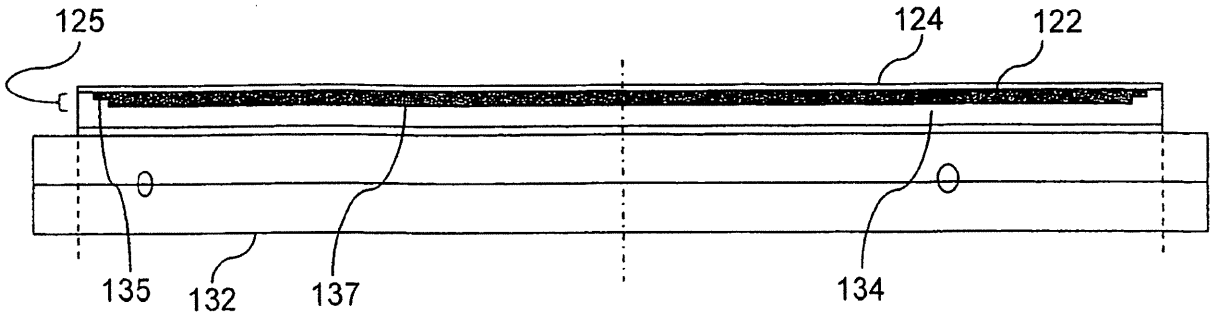


FIG. 2A

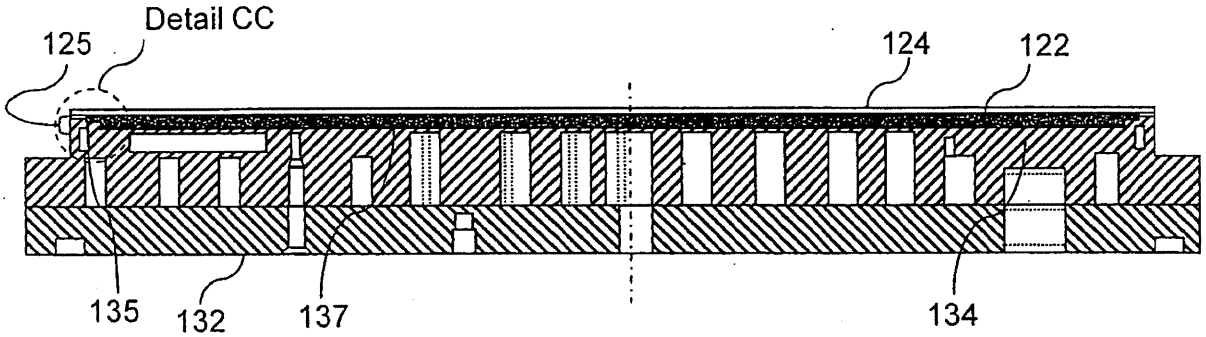


FIG. 2B

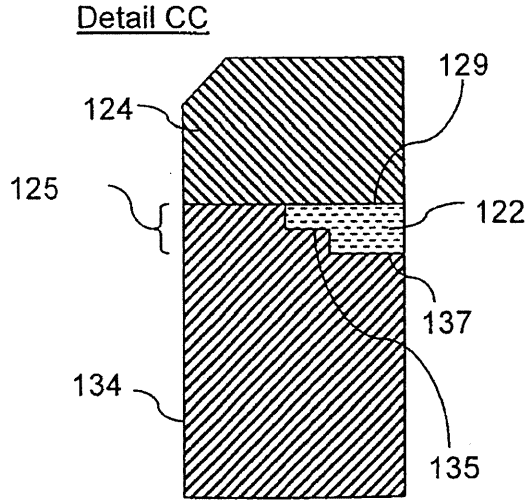


FIG. 2C

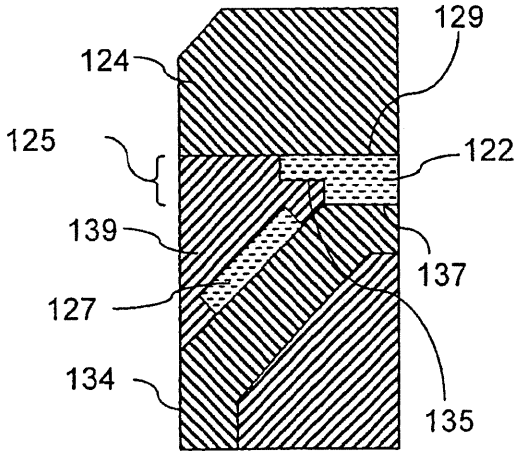


FIG. 2D

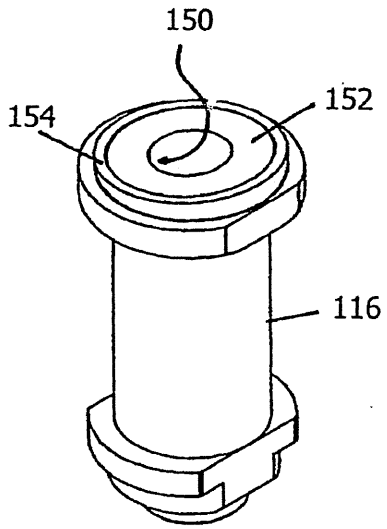


FIG. 3A

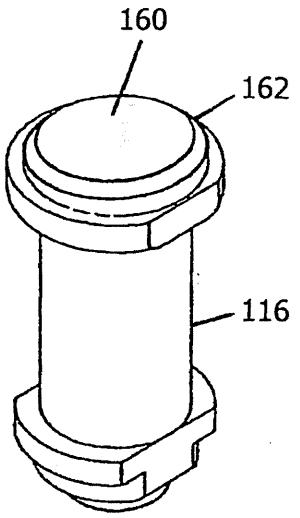


FIG. 3B

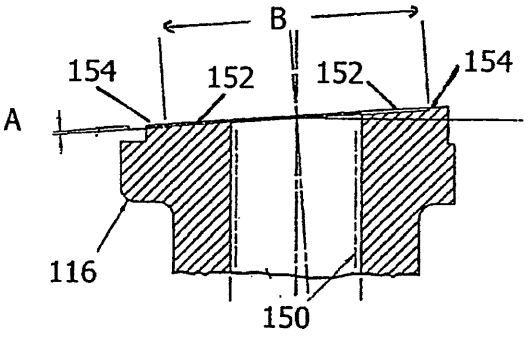


FIG. 3C

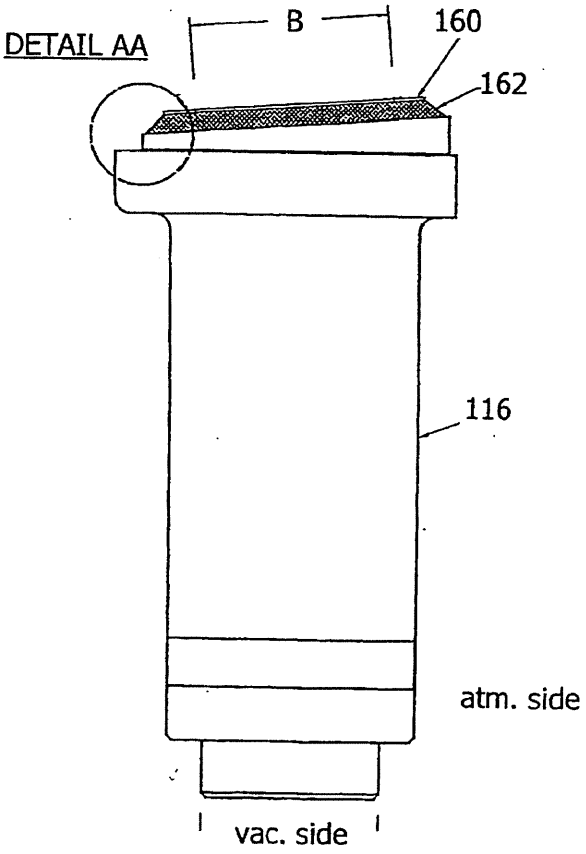


FIG. 3D

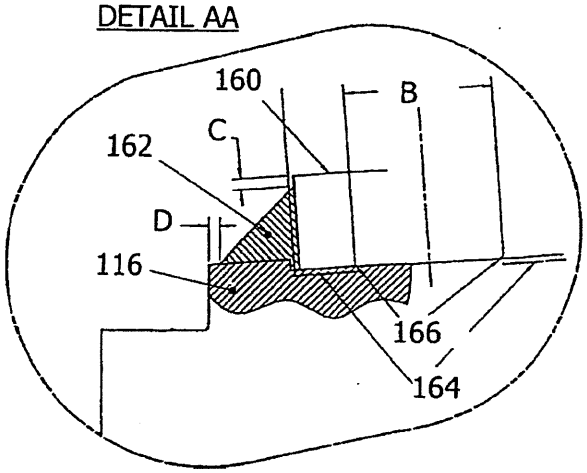


FIG. 3E

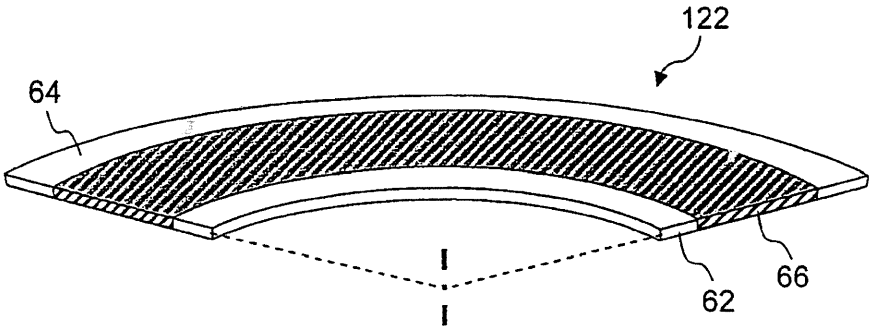


FIG. 4

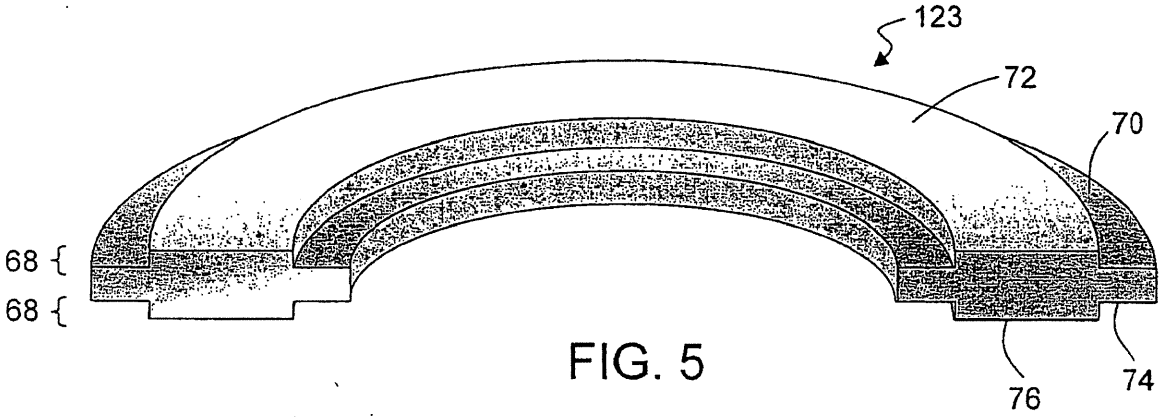


FIG. 5

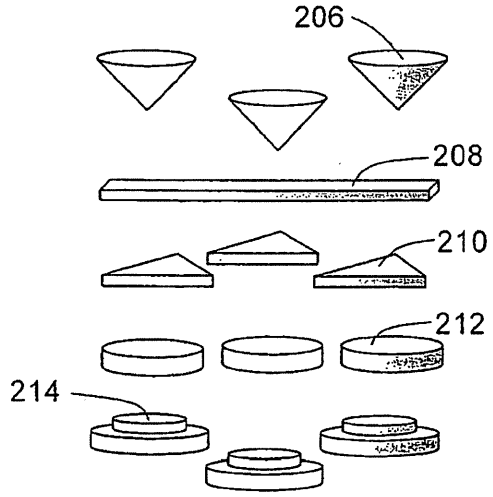


FIG. 6

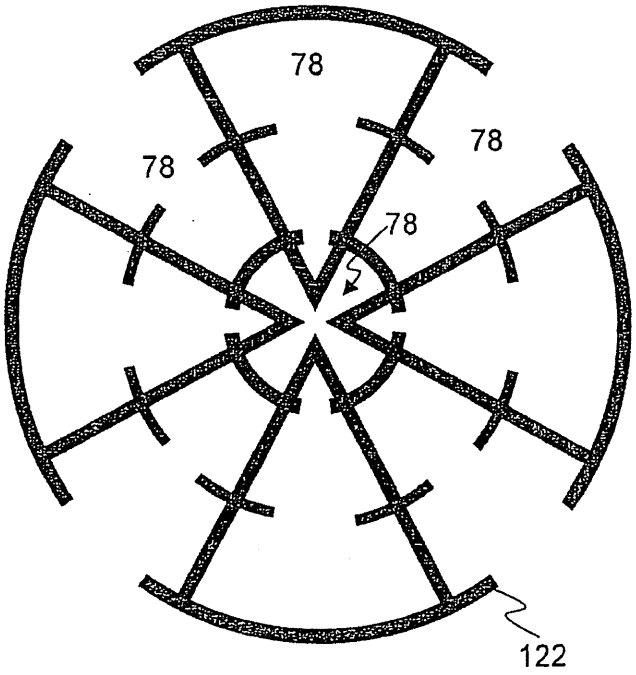


FIG. 7

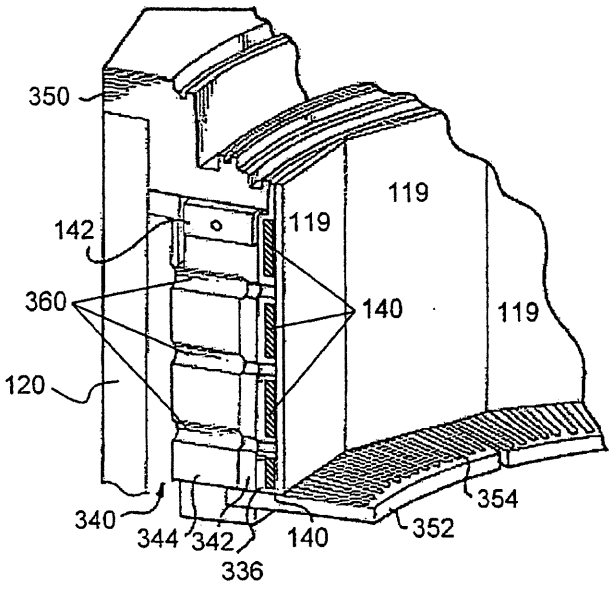


FIG. 8

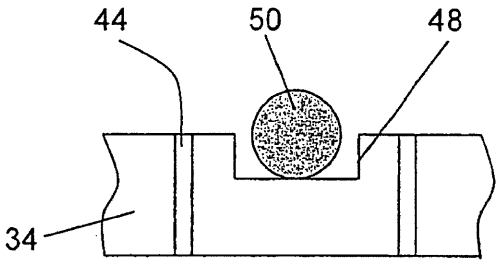


FIG. 9A

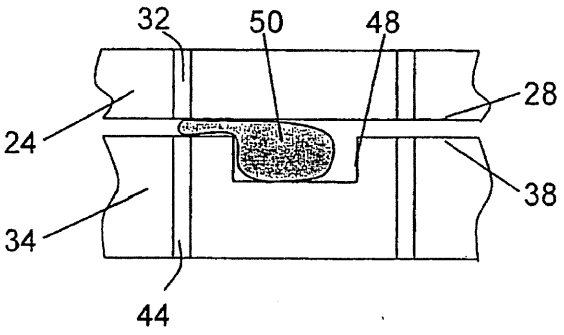


FIG. 9B

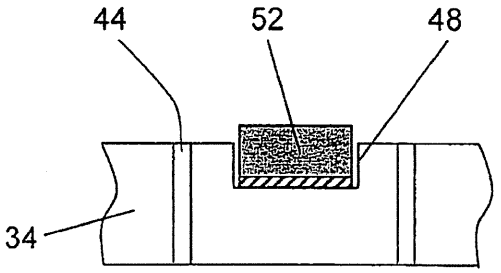


FIG. 10A

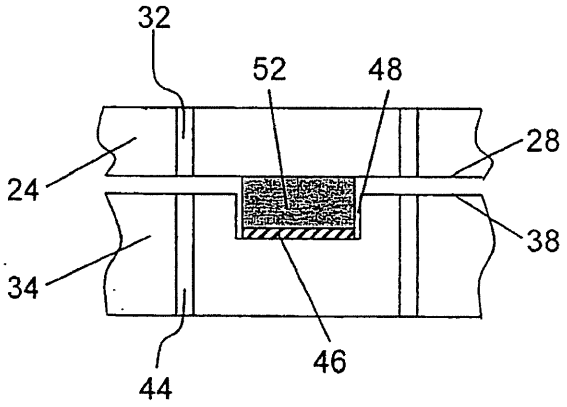


FIG. 10B

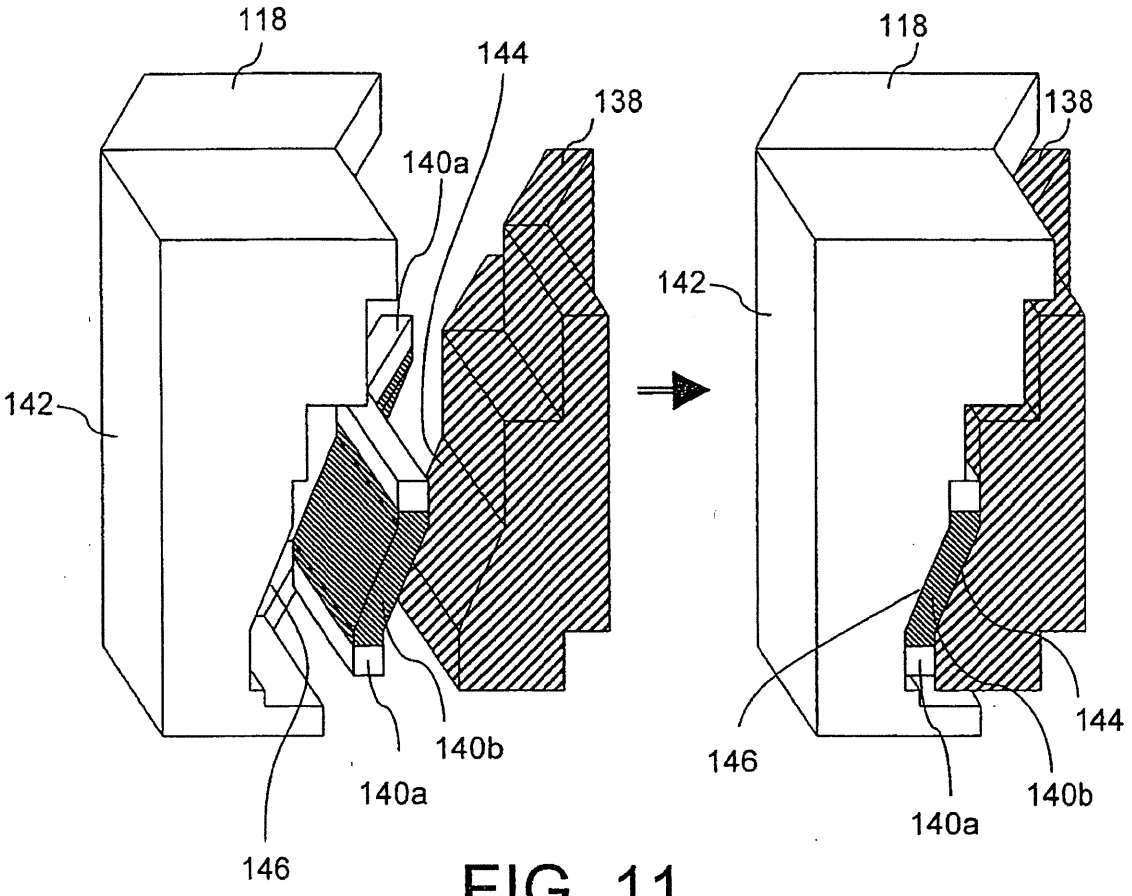

118
144
138
140a
142
140b
140a
146
118
138
142
144
146
140a
140b

FIG. 11

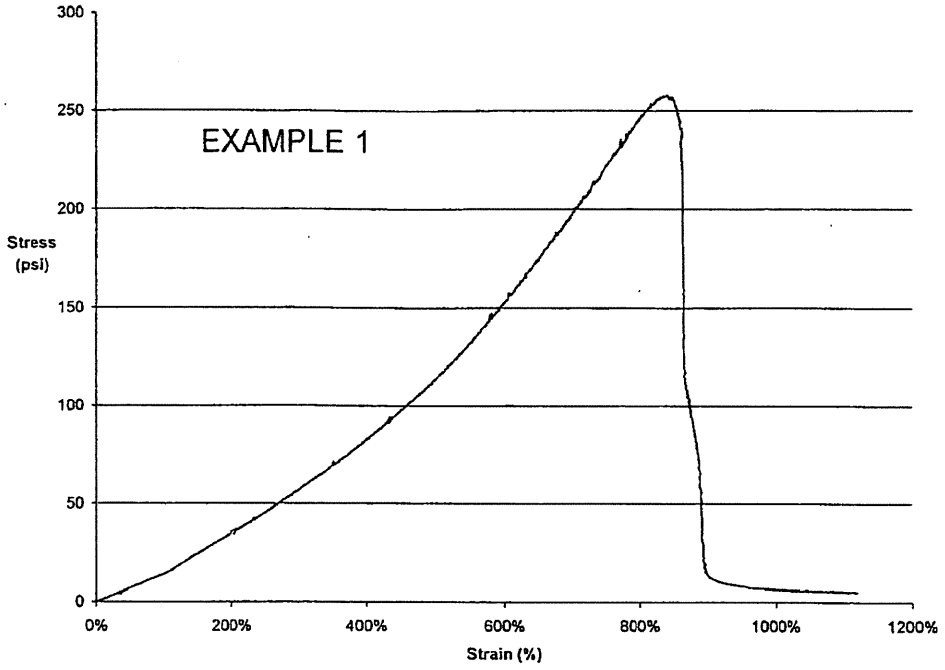

EXAMPLE 1
Stress (psi)
300
250
200
150
100
50
0
0%
200%
400%
600%
800%
1000%
1200%
Strain (%)

FIG. 12

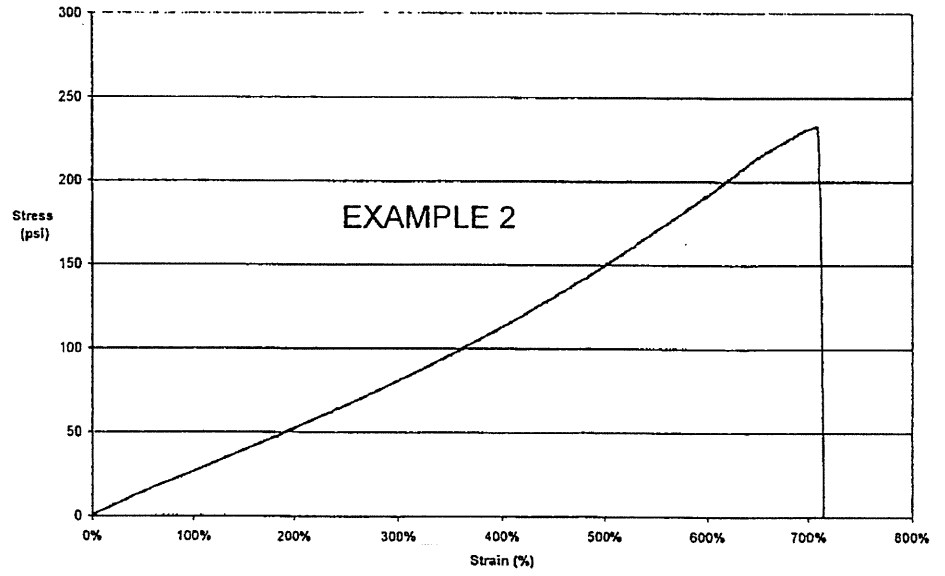

EXAMPLE 2
Stress (psi)
300
250
200
150
100
50
0
0%
100%
200%
300%
400%
500%
600%
700%
800%
Strain (%)

FIG. 13

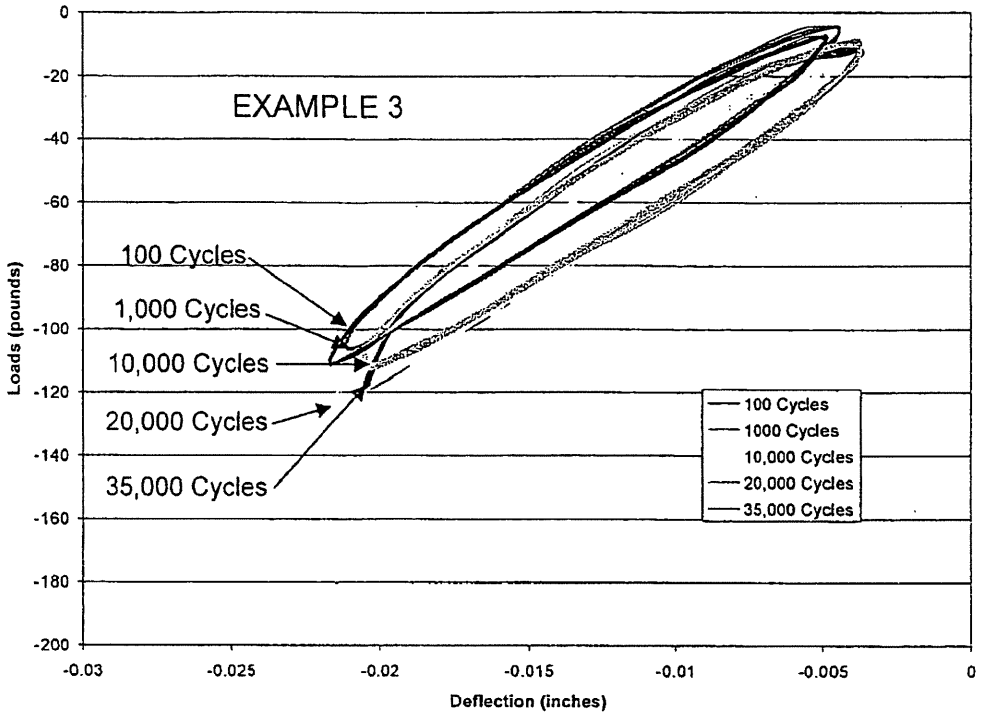

EXAMPLE 3
100 Cycles
1,000 Cycles
10,000 Cycles
20,000 Cycles
35,000 Cycles
Loads (pounds)
Deflection (inches)
0
-20
-40
-60
-80
-100
-120
-140
-160
-180
-200
-0.03
-0.025
-0.02
-0.015
-0.01
-0.005
0
100 Cycles
1000 Cycles
10,000 Cycles
20,000 Cycles
35,000 Cycles

FIG. 14

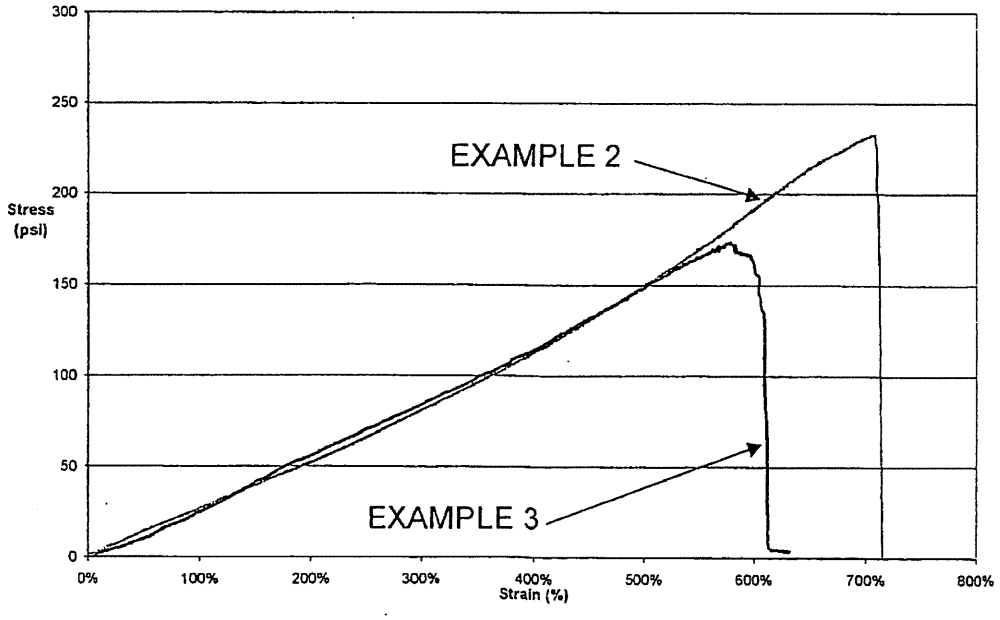

EXAMPLE 2
EXAMPLE 3
Stress (psi)
Strain (%)
300
250
200
150
100
50
0
0%
100%
200%
300%
400%
500%
600%
700%
800%

FIG. 15