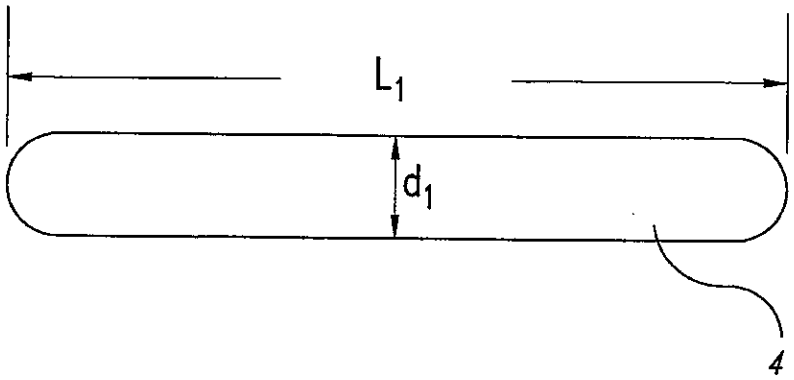


FIG. 1

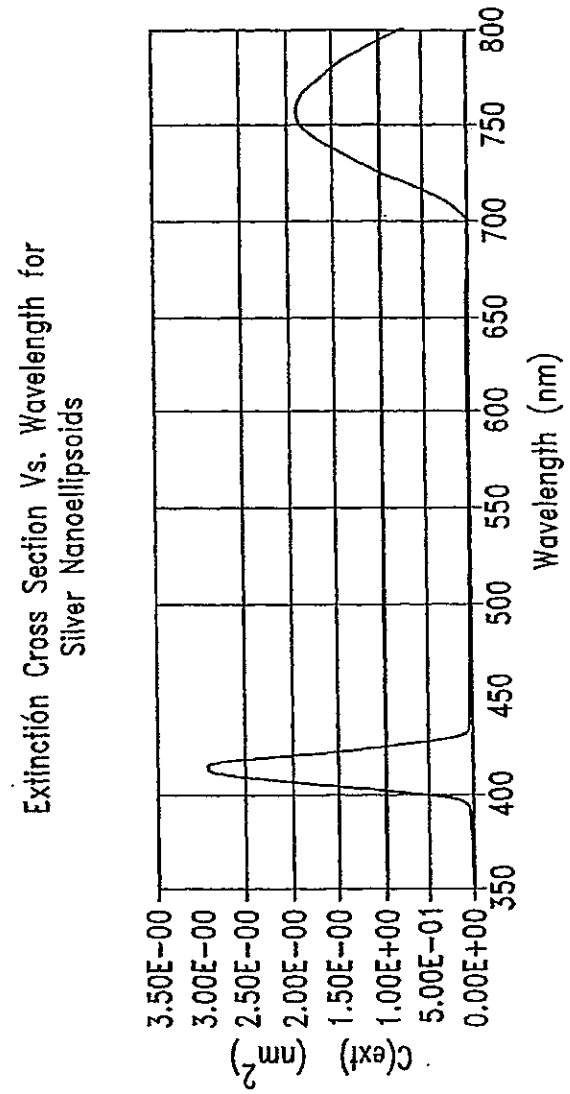

Extinction Cross Section Vs. Wavelength for
Silver Nanoellipsoids
C(ext) (nm²)
3.50E-00
3.00E-00
2.50E-00
2.00E-00
1.50E-00
1.00E+00
5.00E-01
0.00E+00
350
400
450
500
550
600
650
700
750
800
Wavelength (nm)

FIG. 2

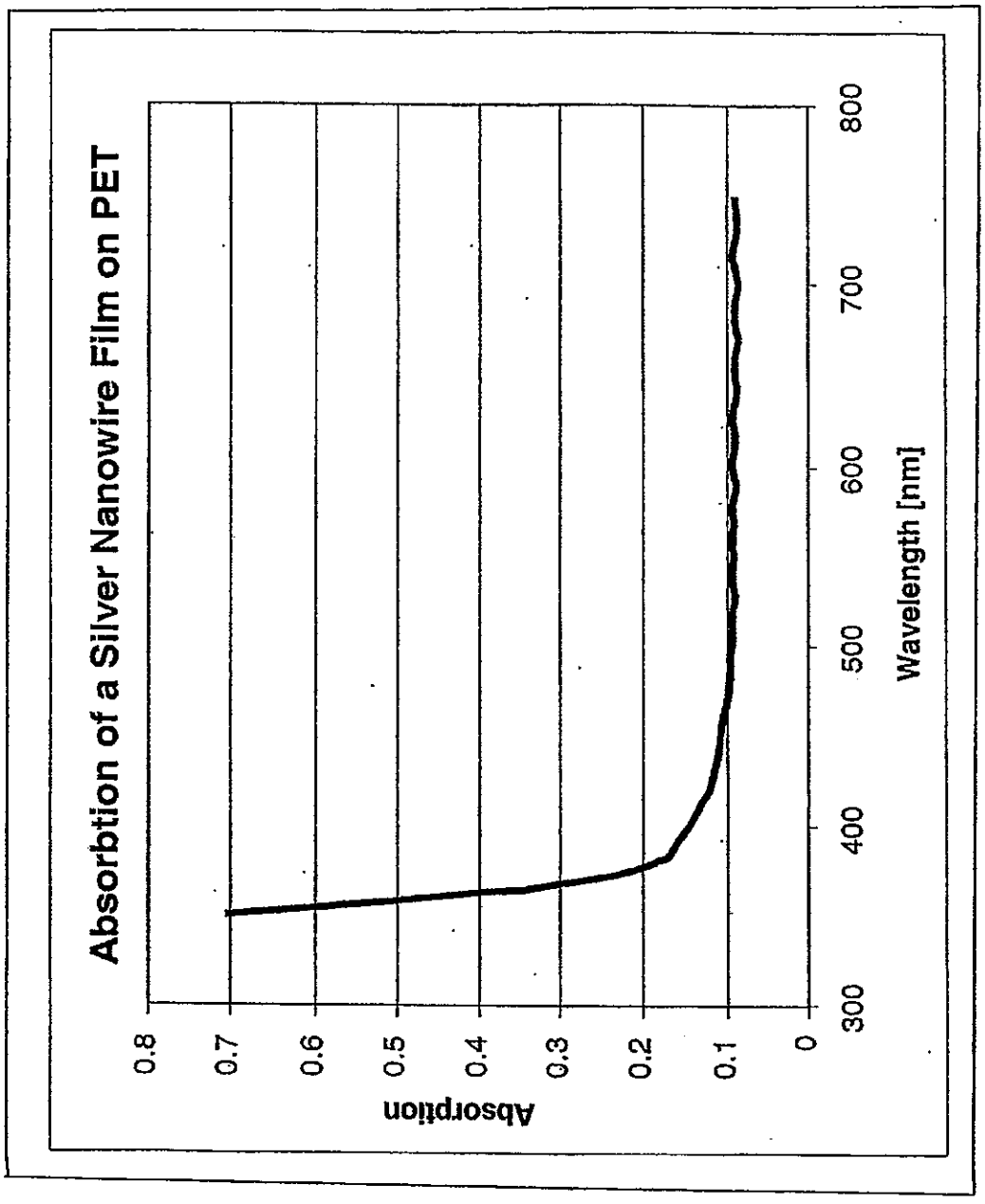

Absorbtion of a Silver Nanowire Film on PET
Absorption
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
300
400
500
600
700
800
Wavelength [nm]

FIG. 3

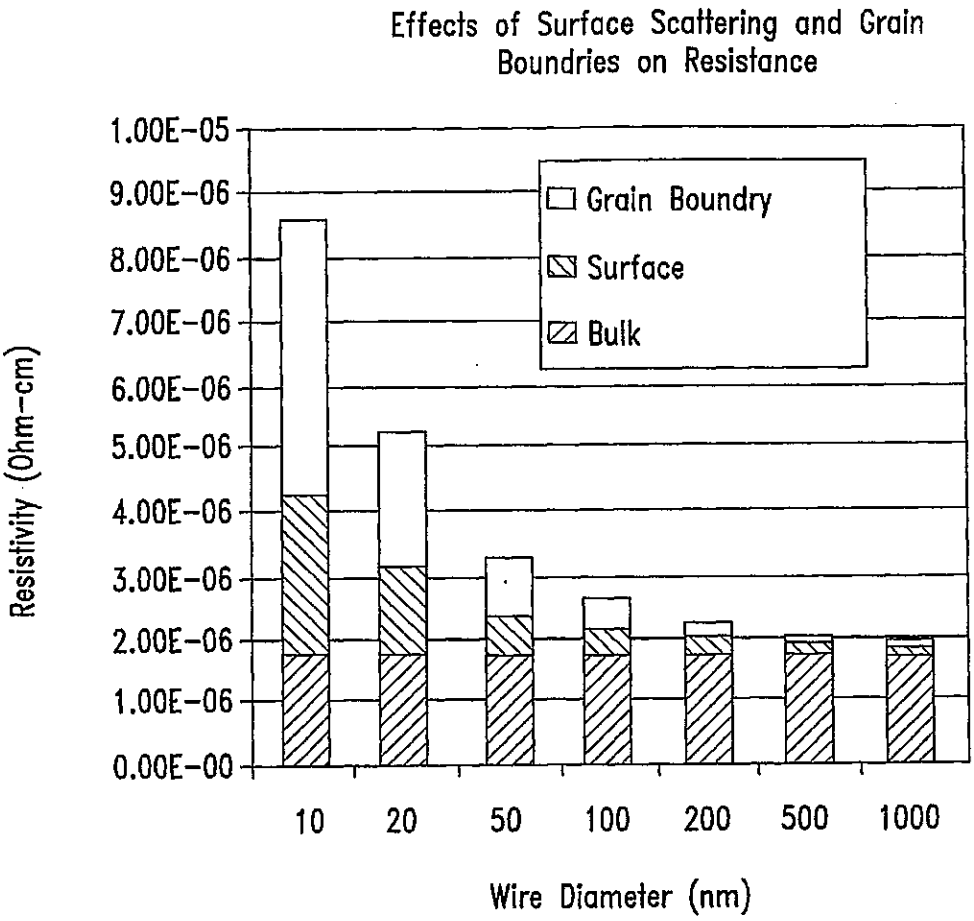

Effects of Surface Scattering and Grain Boundries on Resistance
Resistivity (Ohm-cm)
1.00E-05
9.00E-06
8.00E-06
7.00E-06
6.00E-06
5.00E-06
4.00E-06
3.00E-06
2.00E-06
1.00E-06
0.00E-00
Grain Boundry
Surface
Bulk
10
20
50
100
200
500
1000
Wire Diameter (nm)

FIG. 4

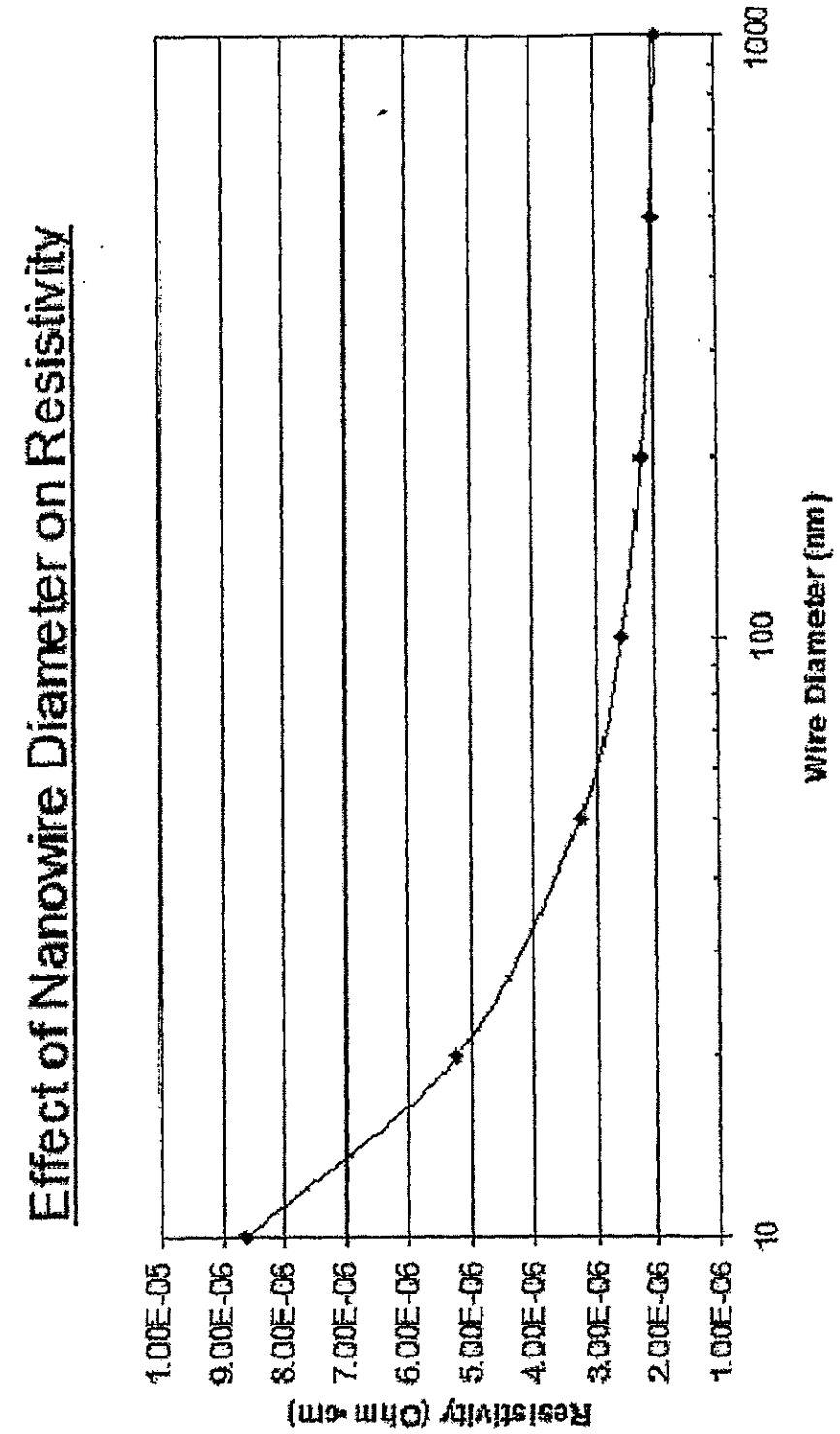

Effect of Nanowire Diameter on Resistivity
Resistivity (Ohm-cm)
1.00E-05
9.00E-06
8.00E-06
7.00E-06
6.00E-06
5.00E-06
4.00E-06
3.00E-06
2.00E-06
1.00E-06
10
100
1000
Wire Diameter (nm)

FIG. 5

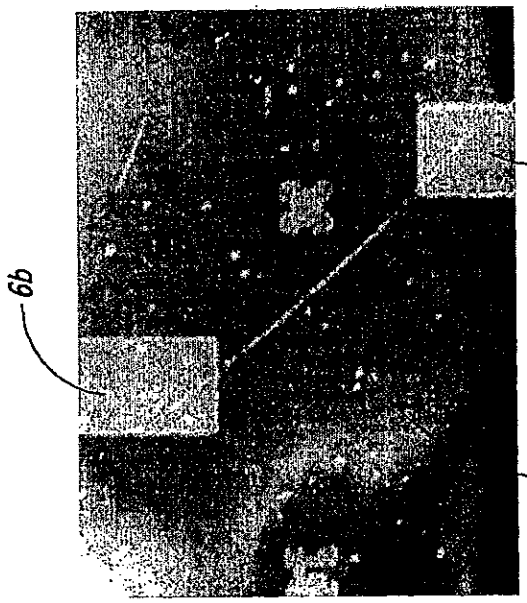


FIG. 6

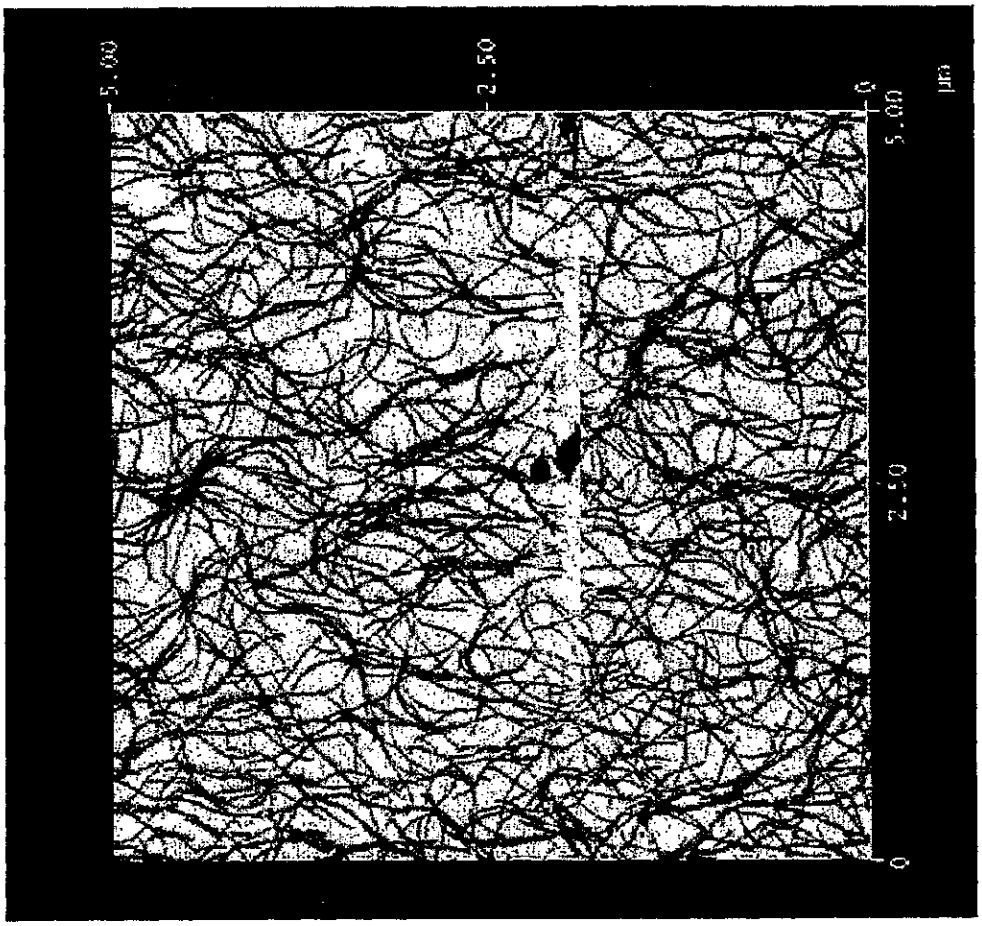


FIG. 7

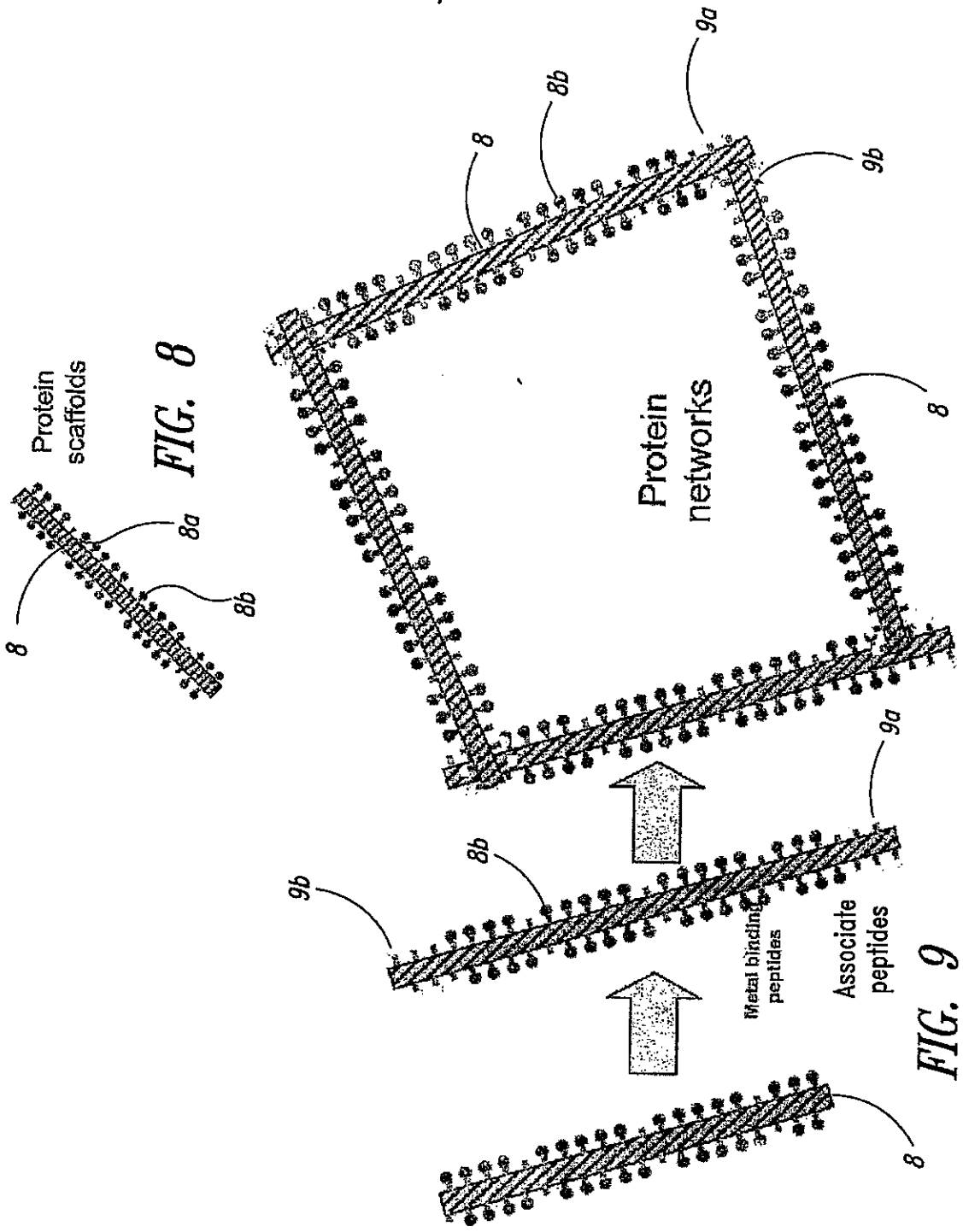

Protein scaffolds
8
8a
8b
Protein networks
8
8
8b
9a
9b
9b
8b
9a
Metal binding peptides
Associate peptides
8

FIG. 8

FIG. 9

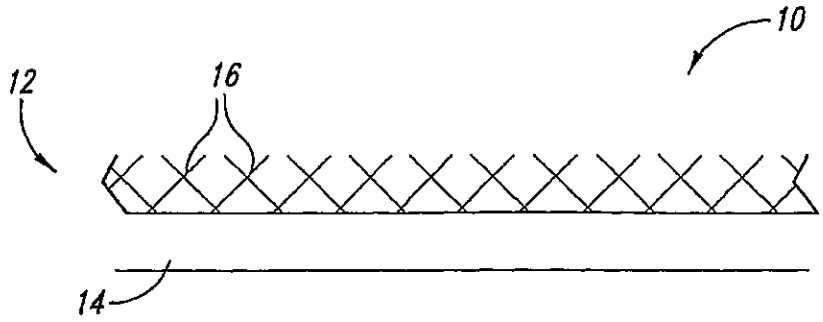


FIG. 10A

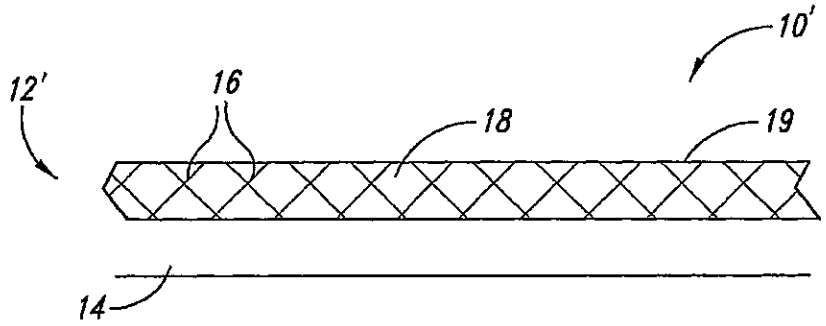


FIG. 10B

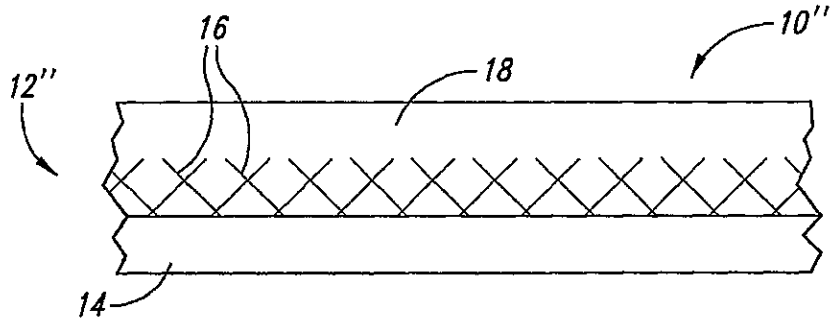


FIG. 10E

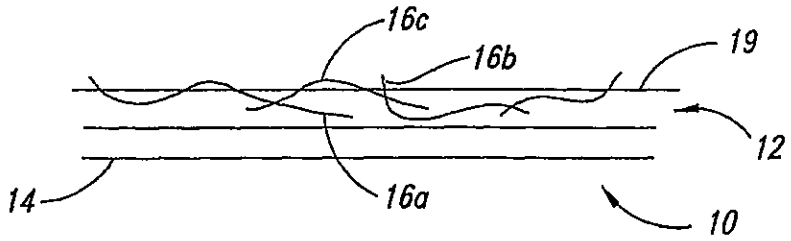


FIG. 10C

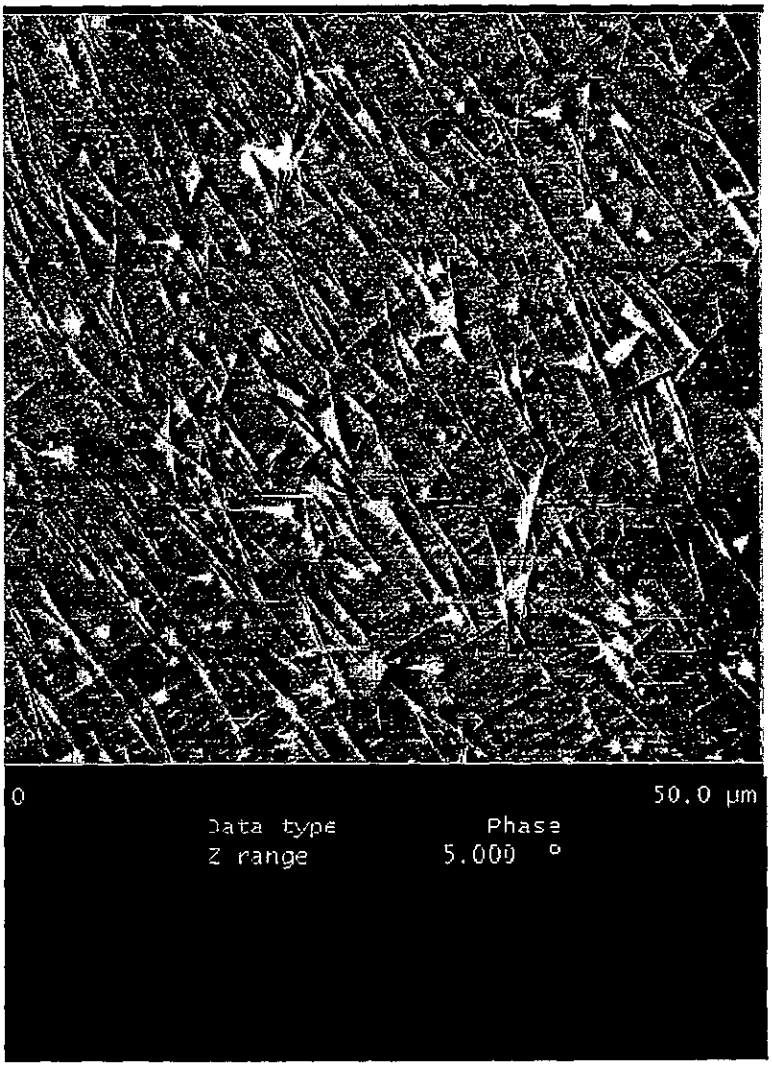


FIG. 10D

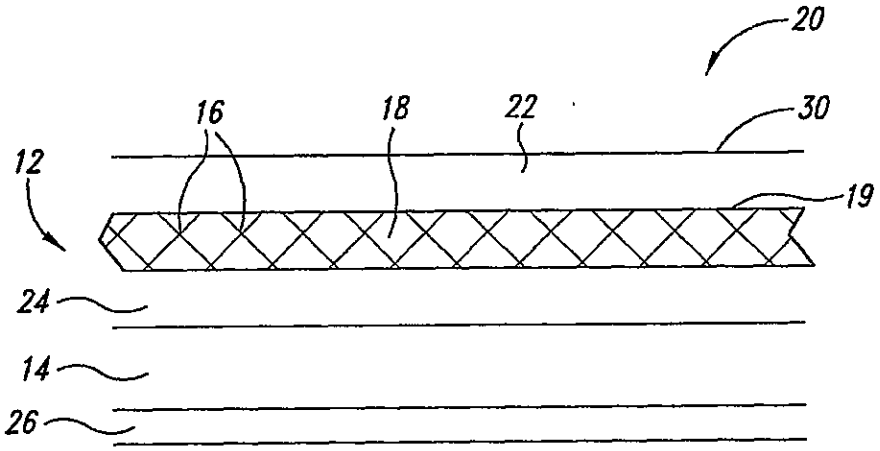


FIG. 11

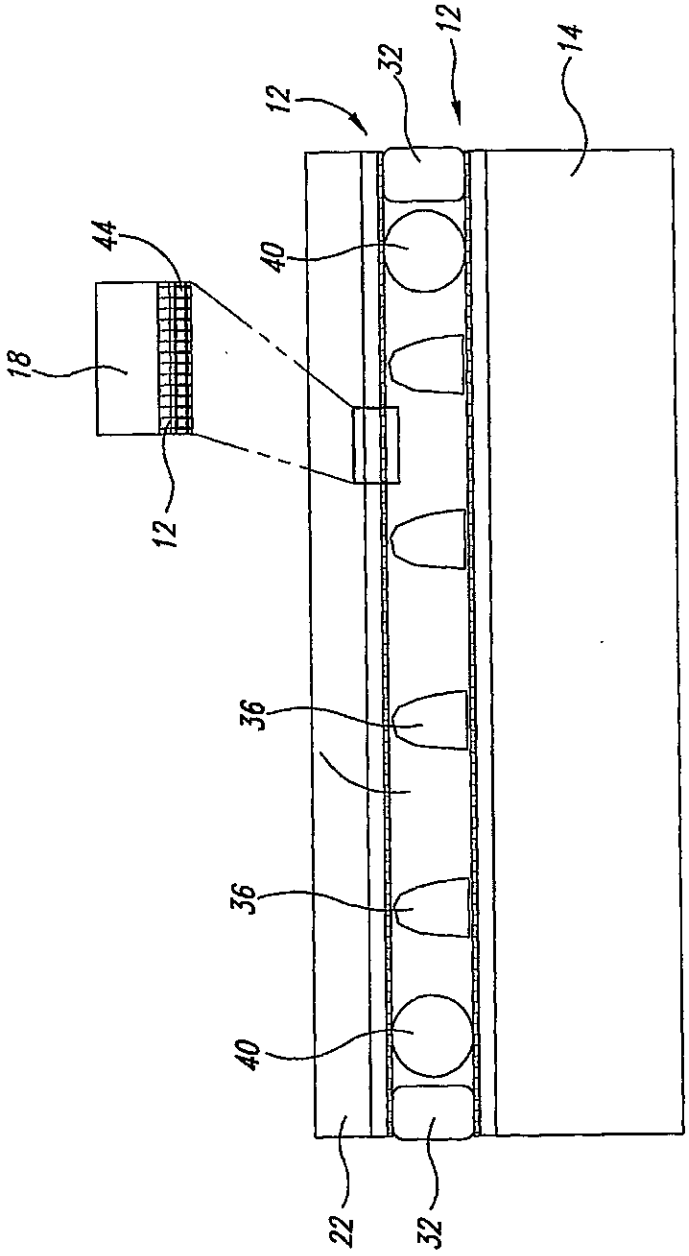


FIG. 12

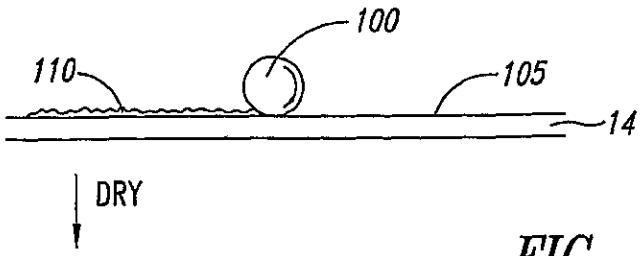


FIG. 13A

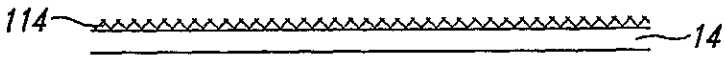


FIG. 13B

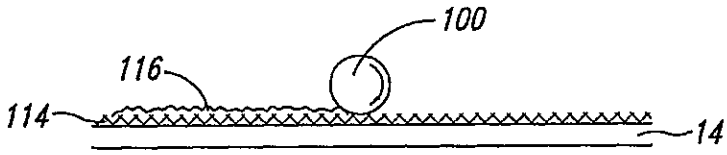


FIG. 13C

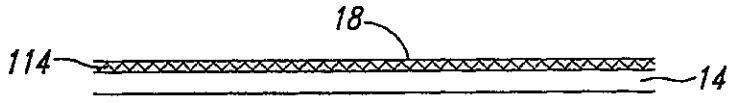


FIG. 13D

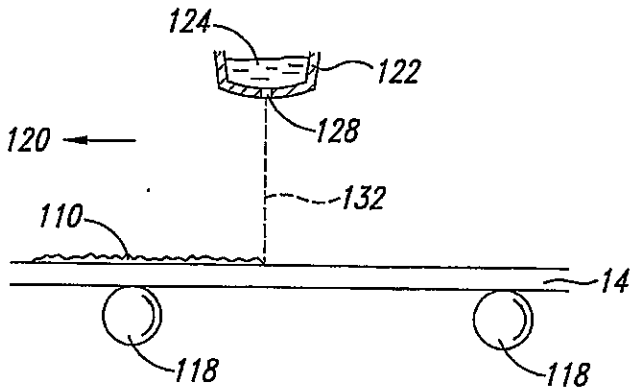


FIG. 14A

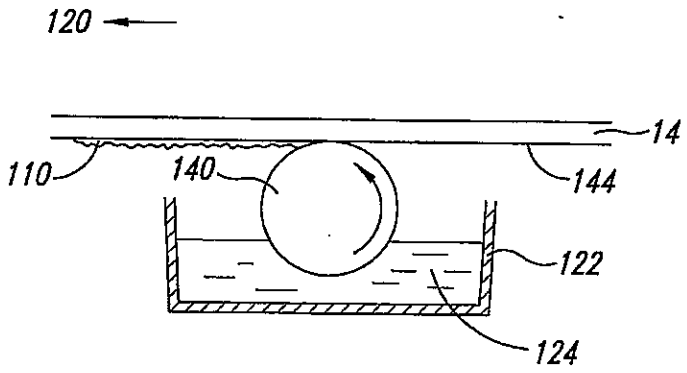


FIG. 14B

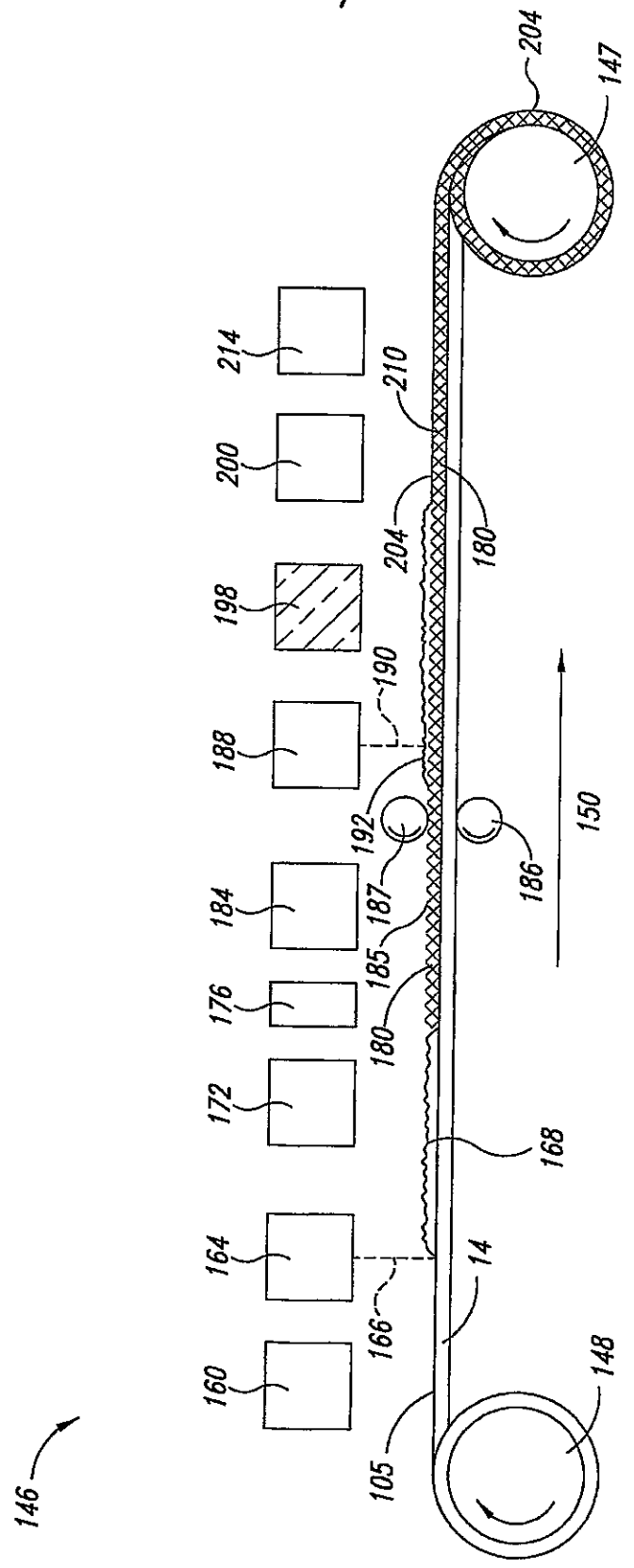

146
160
164
166
172
176
180
184
185
187
188
190
192
198
200
204
210
214
105
14
148
168
186
150
147
204
180

FIG. 15A

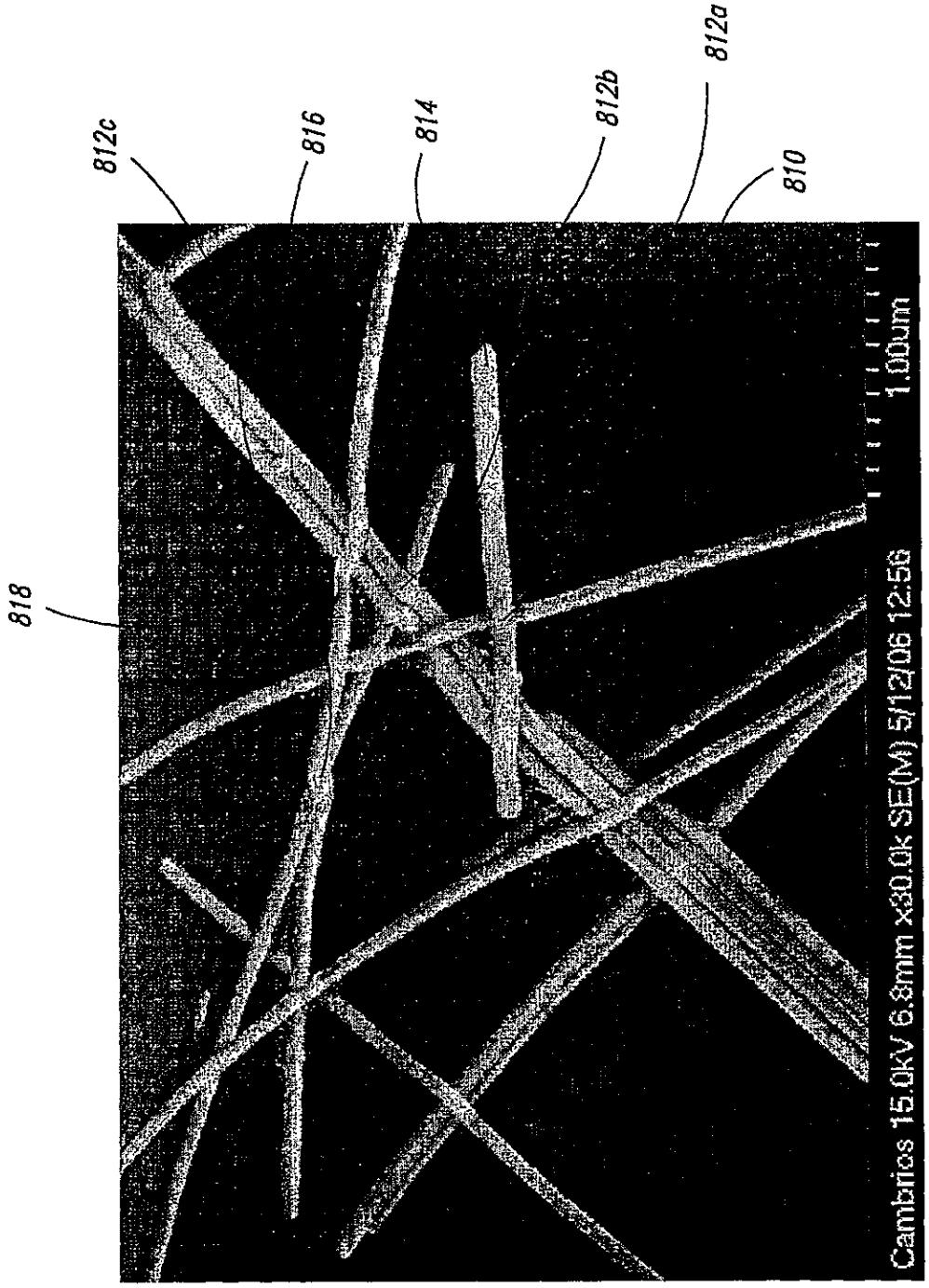

812c
816
814
812b
812a
810
818
Cambrios 15.0kV 6.8mm x30.0k SE(M) 5/12/06 12:56
1.00um

FIG. 15B

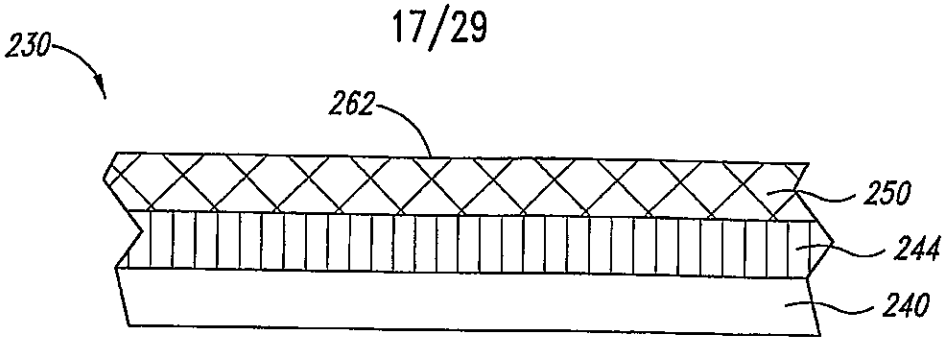


FIG. 16A

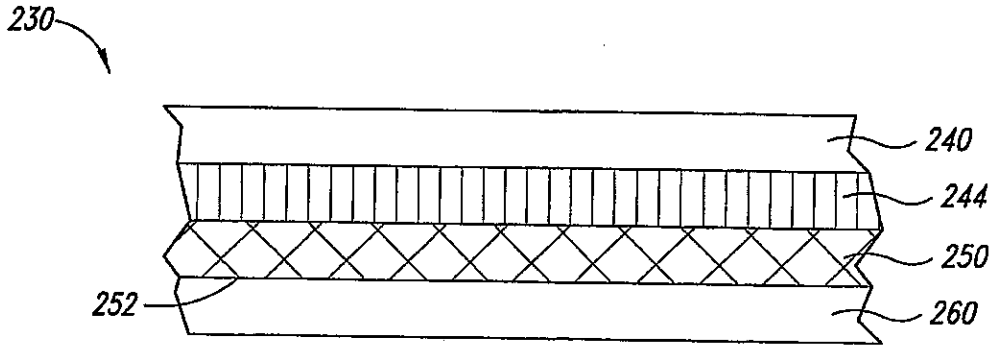


FIG. 16B

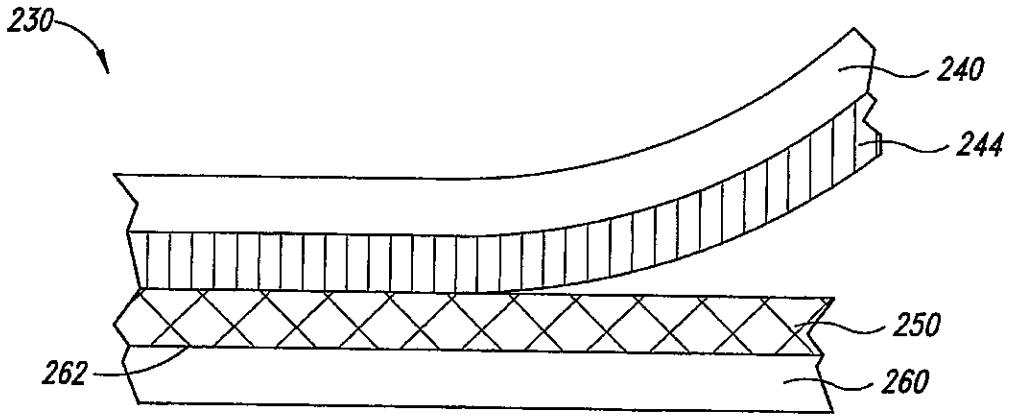


FIG. 16C

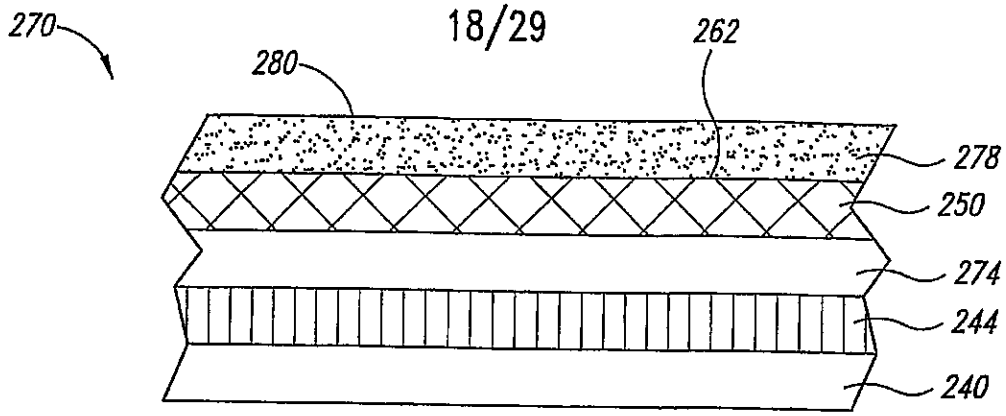


FIG. 17A

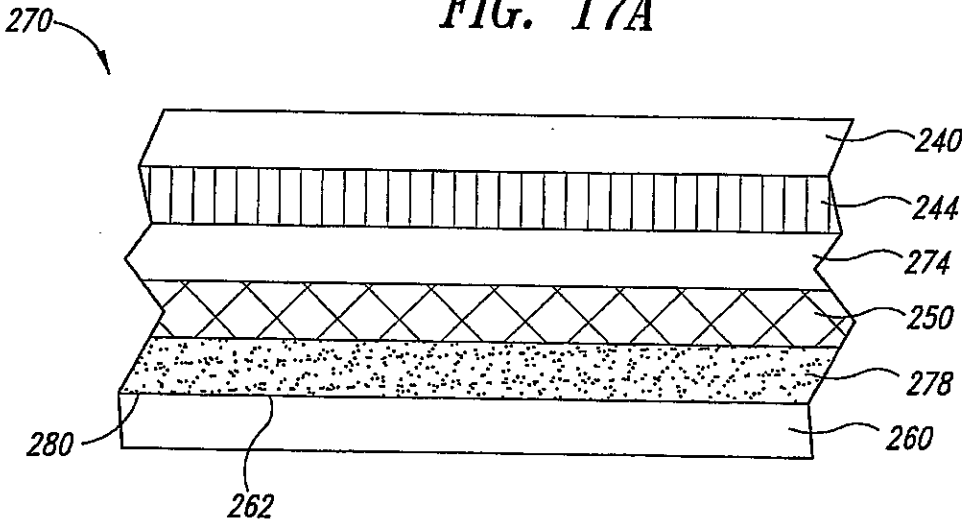


FIG. 17B

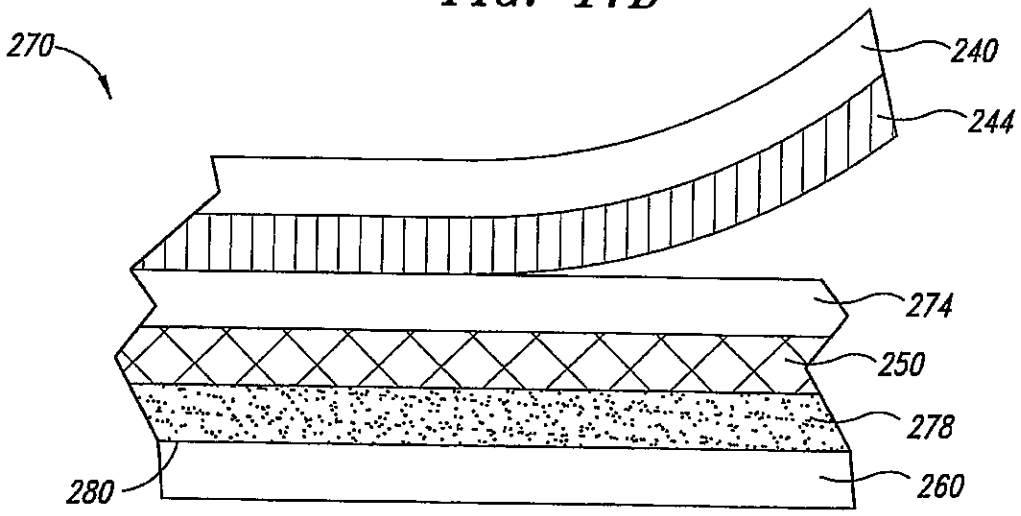


FIG. 17C

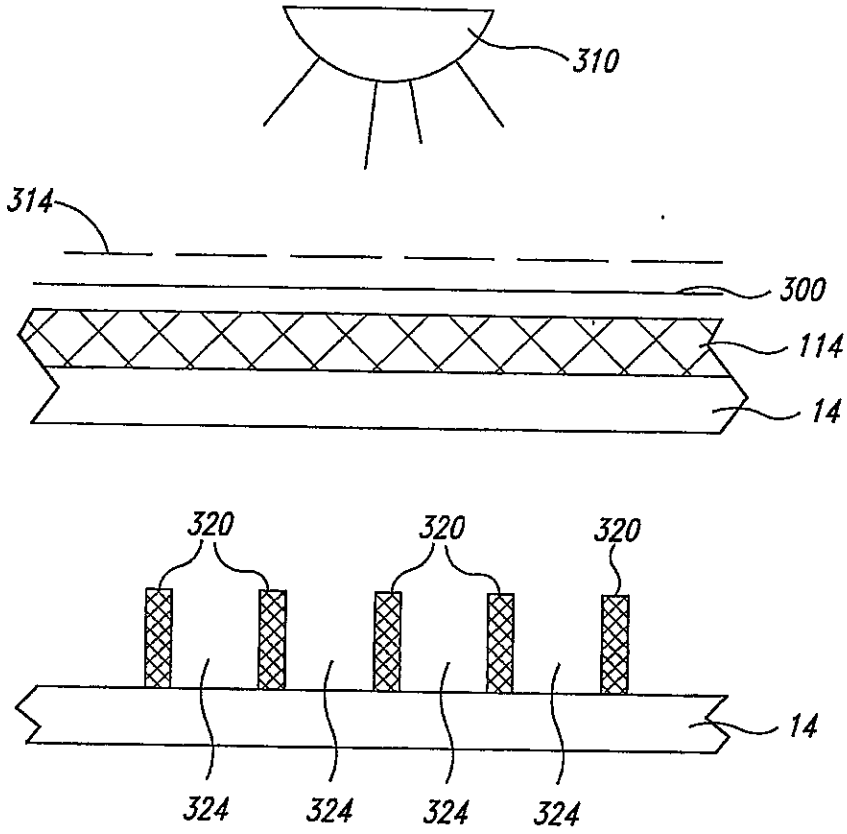


FIG. 18

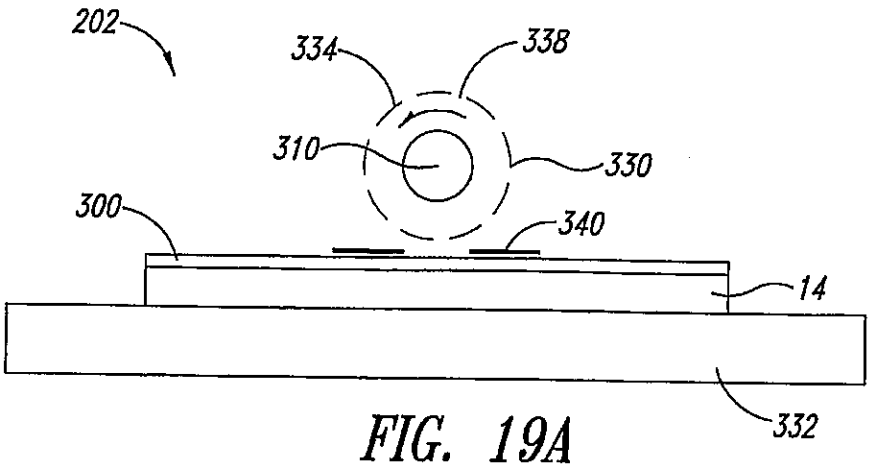


FIG. 19A

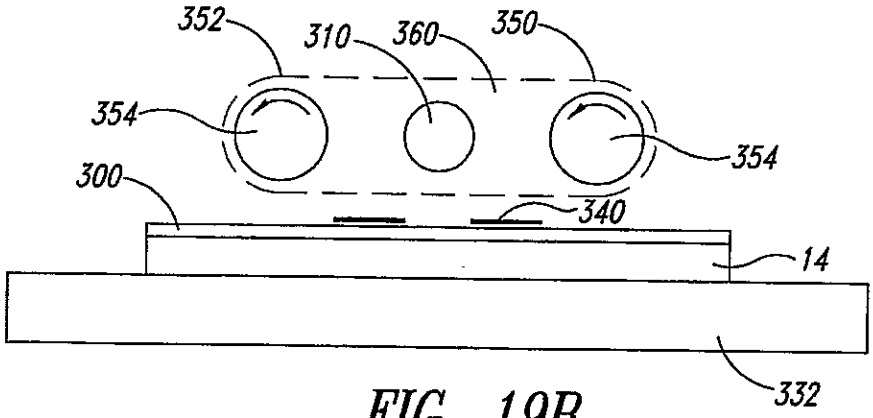


FIG. 19B

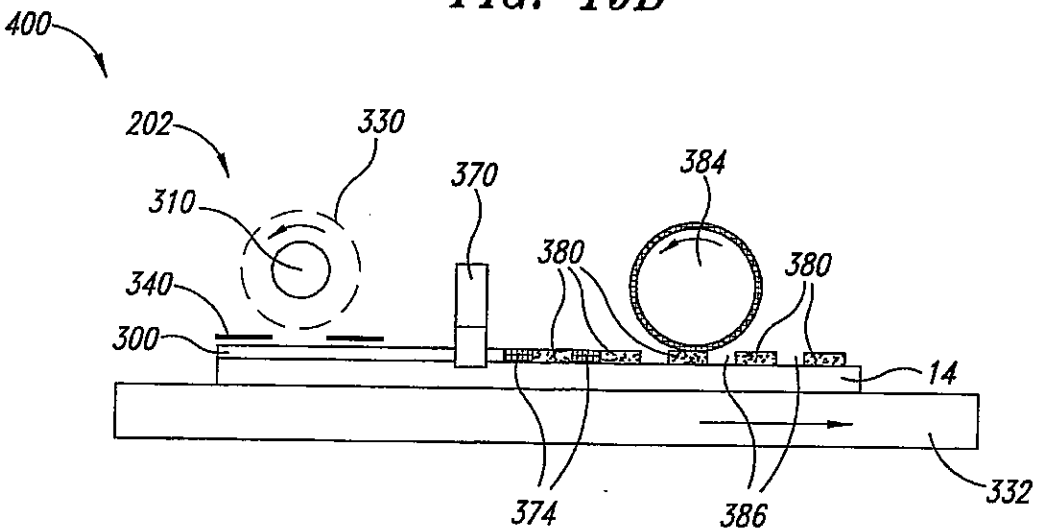


FIG. 20

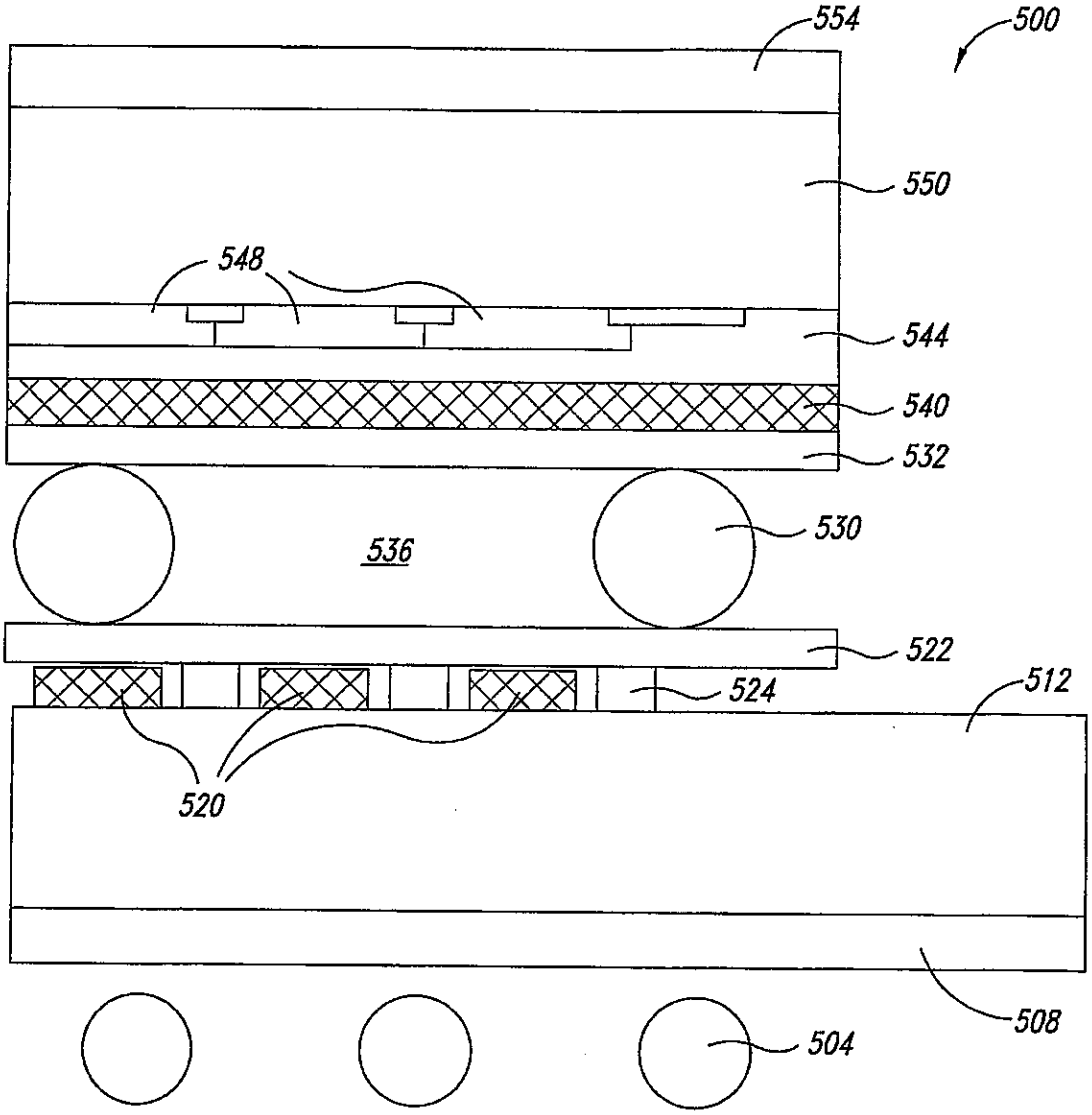


FIG. 21

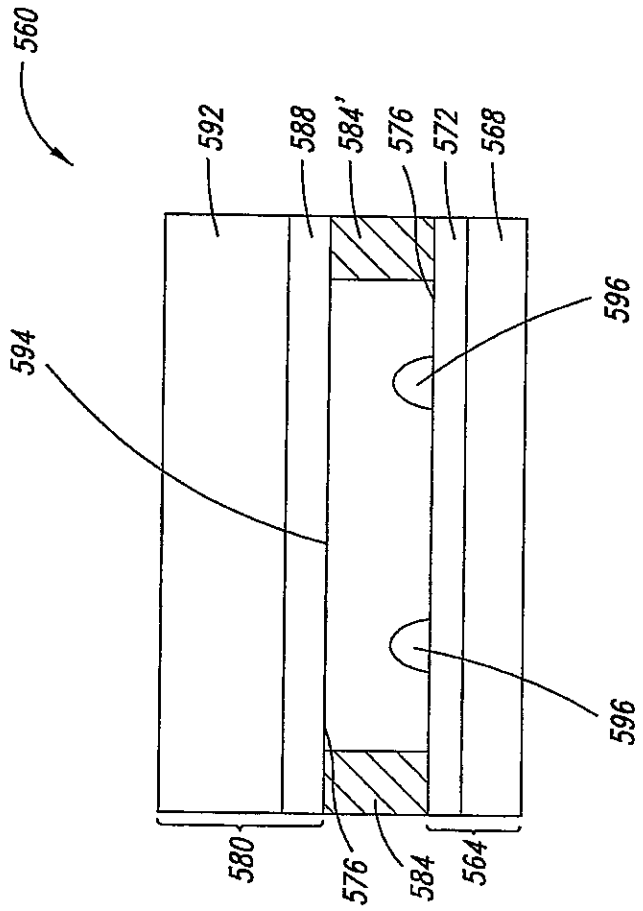


FIG. 22

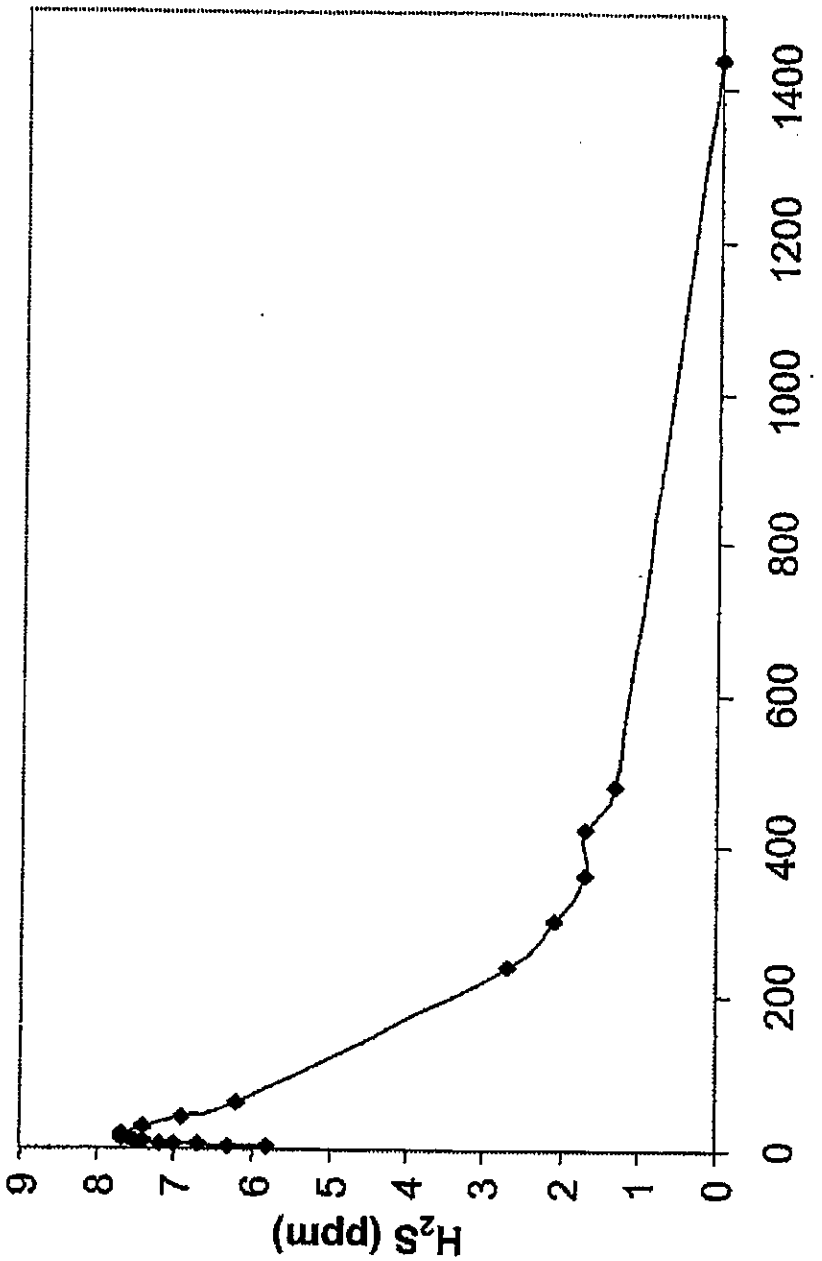

H2S (ppm)
0
1
2
3
4
5
6
7
8
9
0
200
400
600
800
1000
1200
1400
Time (minutes)

FIG. 23

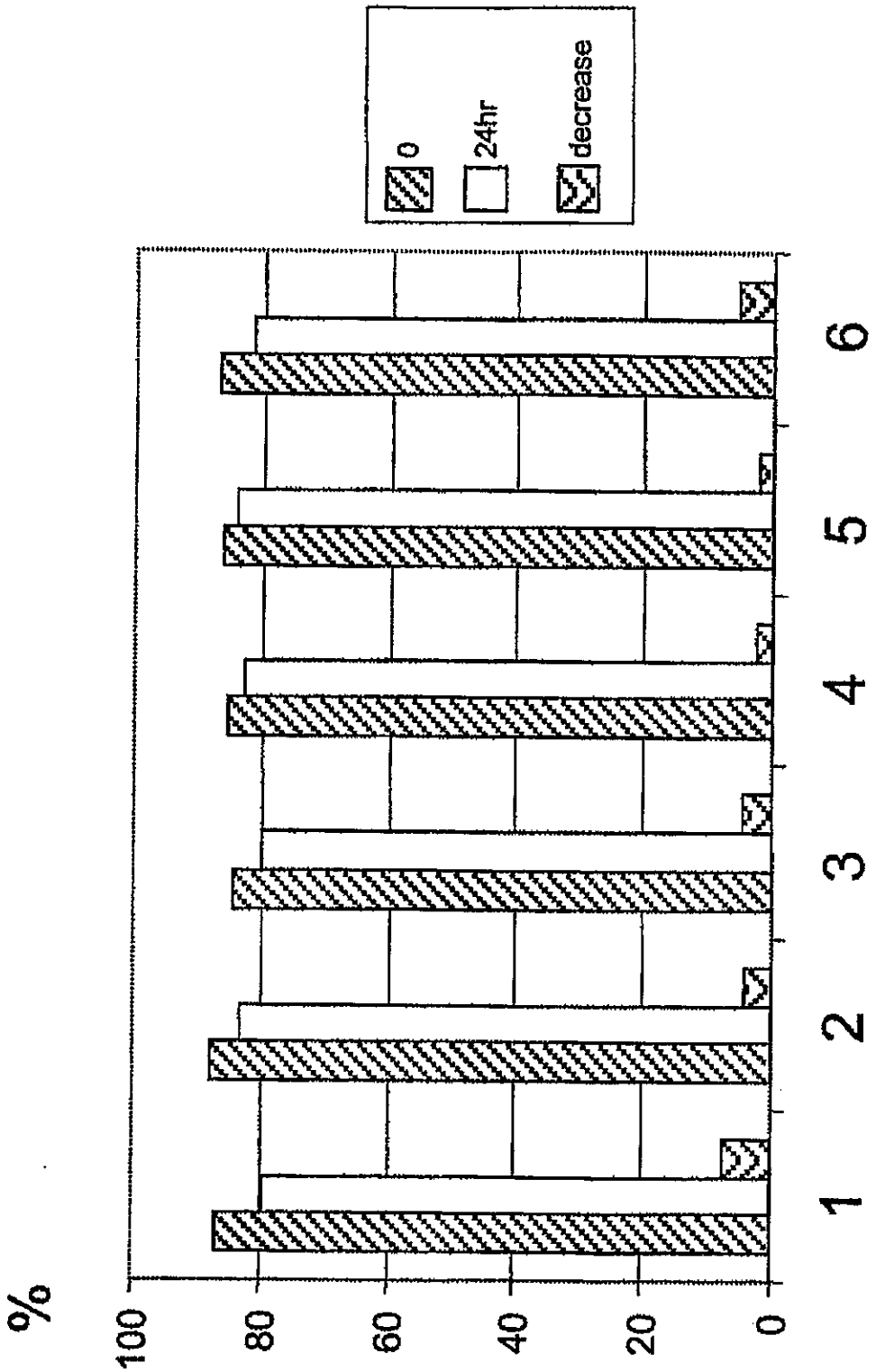


FIG. 24A

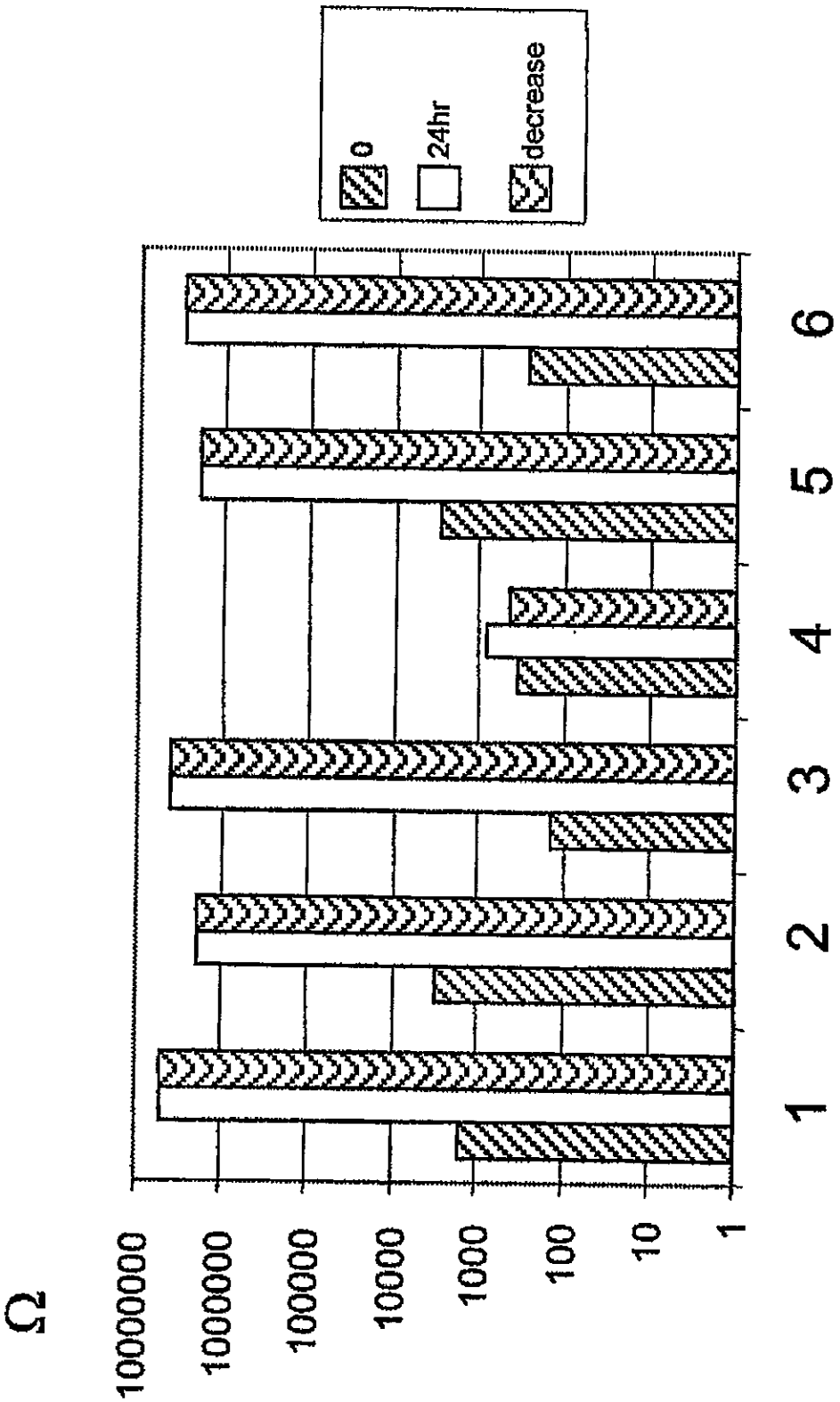

Ω
10000000
1000000
100000
10000
1000
100
10
1
1
2
3
4
5
6
0
24hr
decrease

FIG. 24B

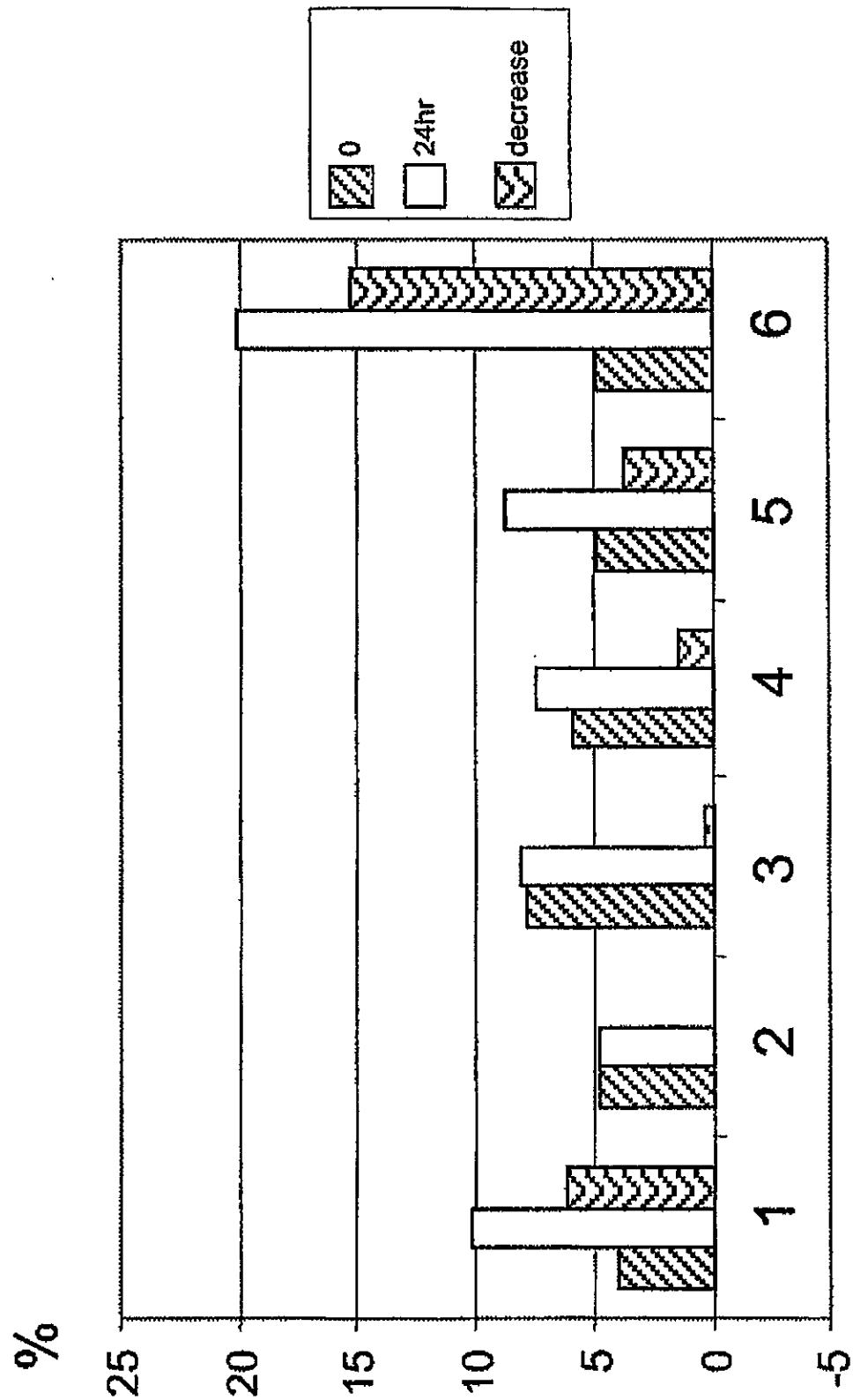


FIG. 24C

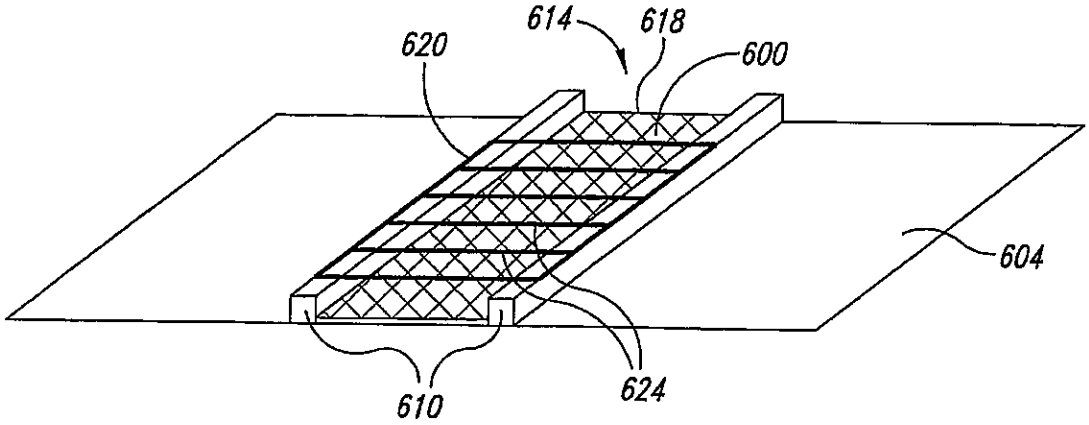


FIG. 25A

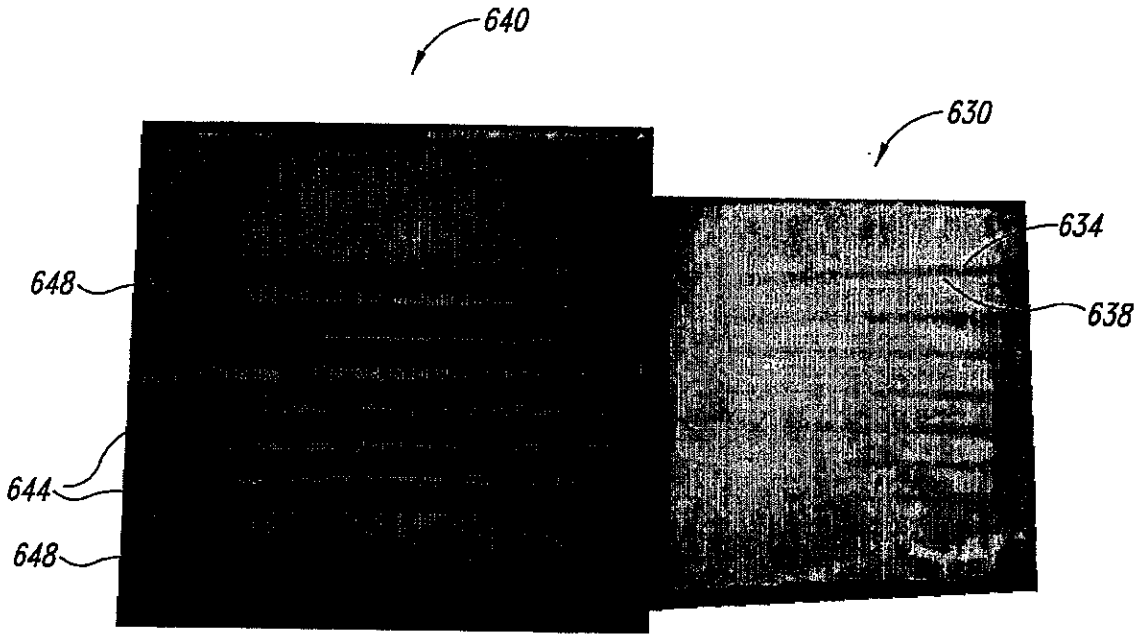
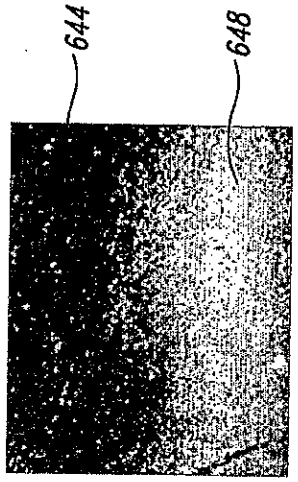
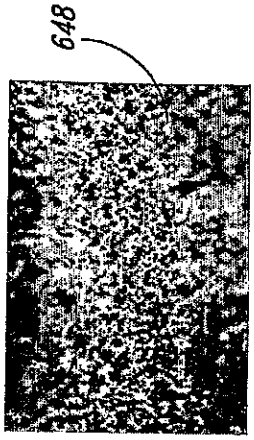


FIG. 25B



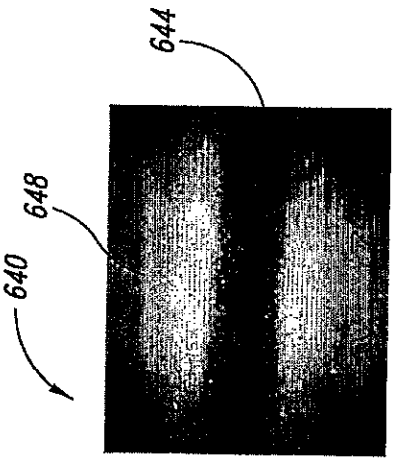
(20X)

FIG. 26C



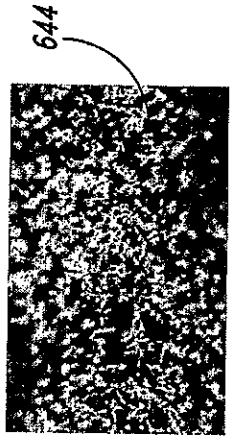
(100X)

FIG. 26F



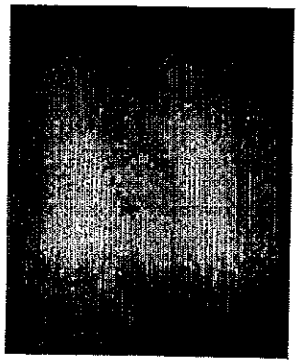
(5X)

FIG. 26B



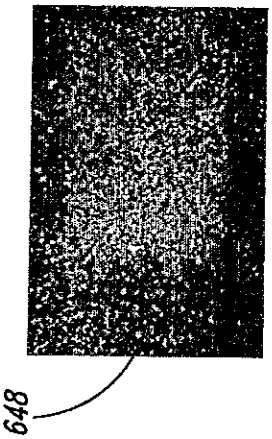
(100X)

FIG. 26E



(5X)

FIG. 26A



(20X)

FIG. 26D

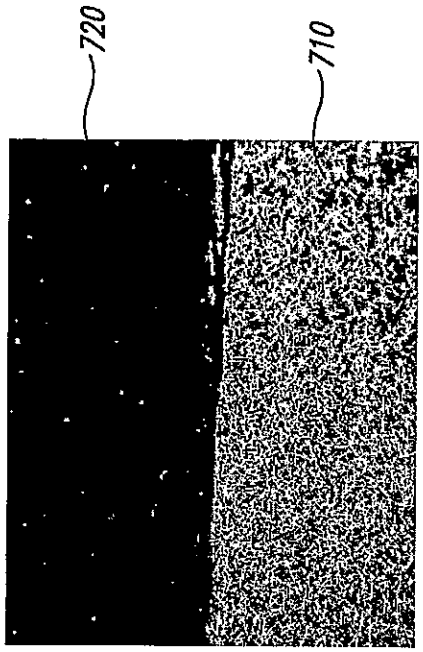


FIG. 27C

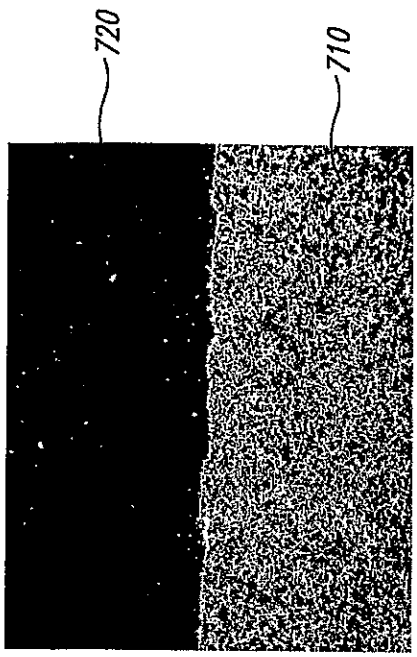


FIG. 27D

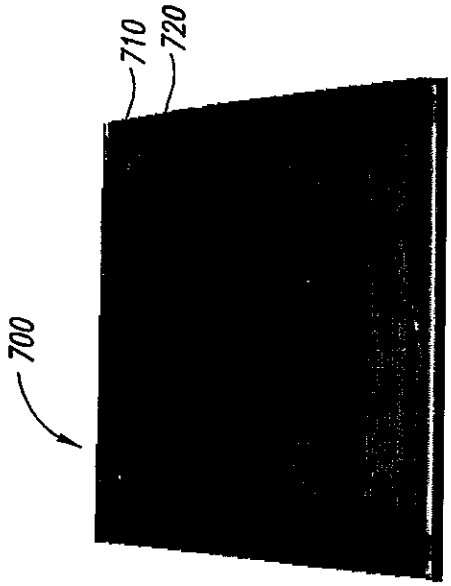


FIG. 27A

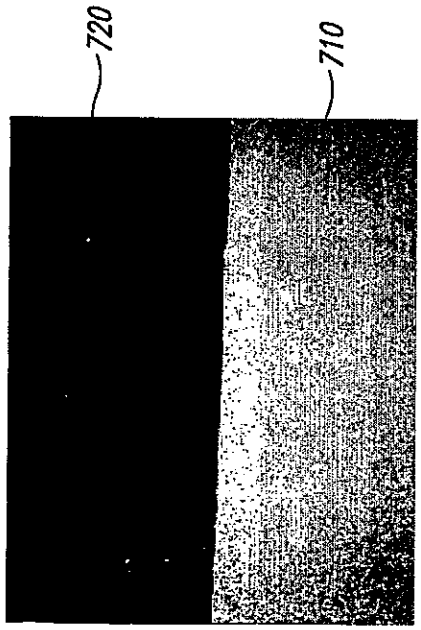


FIG. 27B