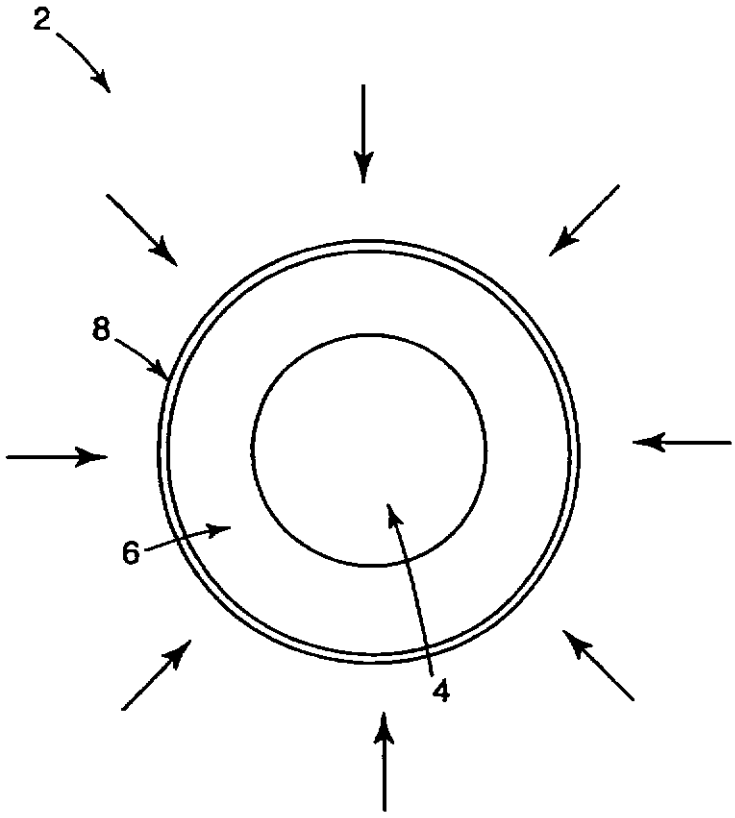


Fig. 1

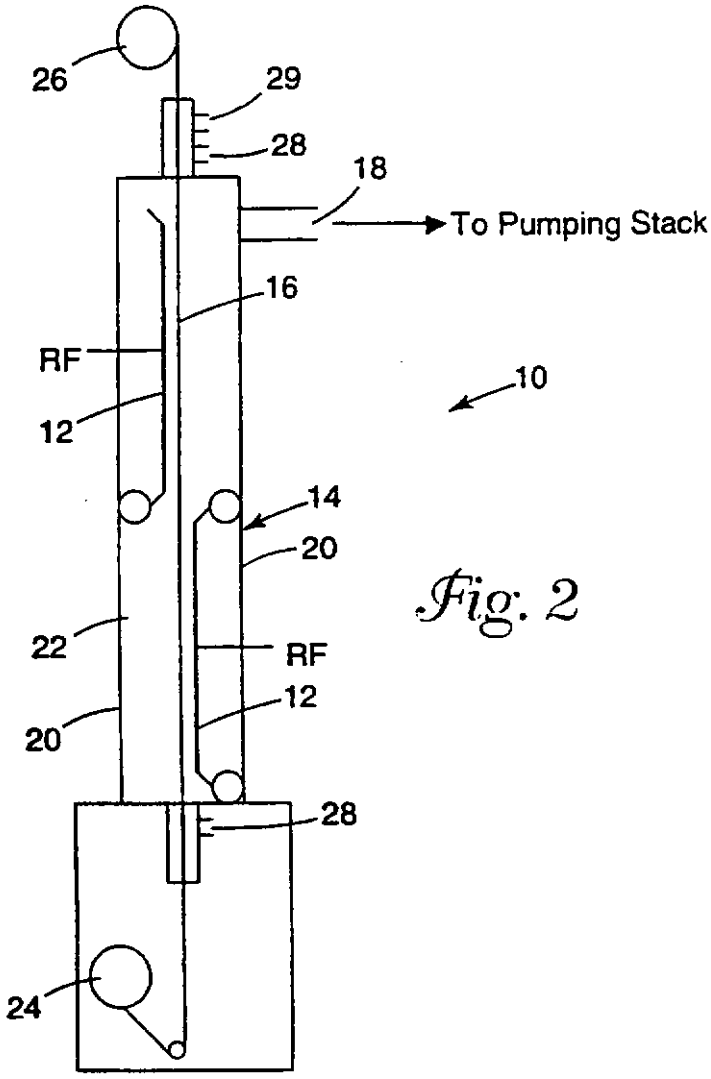

26
29
28
18
To Pumping Stack
16
RF
12
10
14
20
22
RF
12
20
28
24

Fig. 2

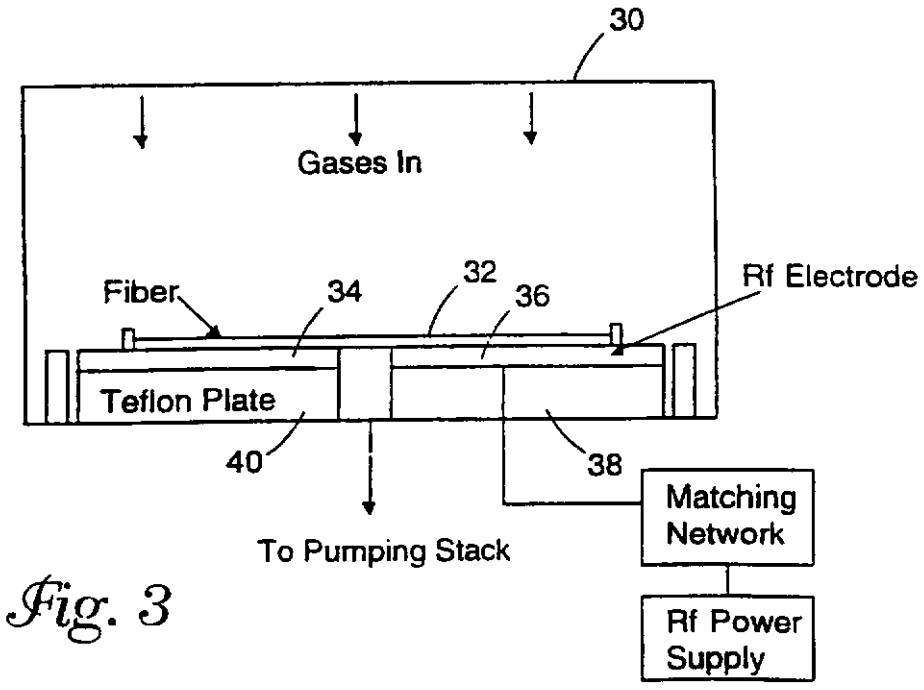

30
Gases In
Fiber
34
32
36
Rf Electrode
Teflon Plate
40
38
To Pumping Stack
Matching Network
Rf Power Supply

Fig. 3

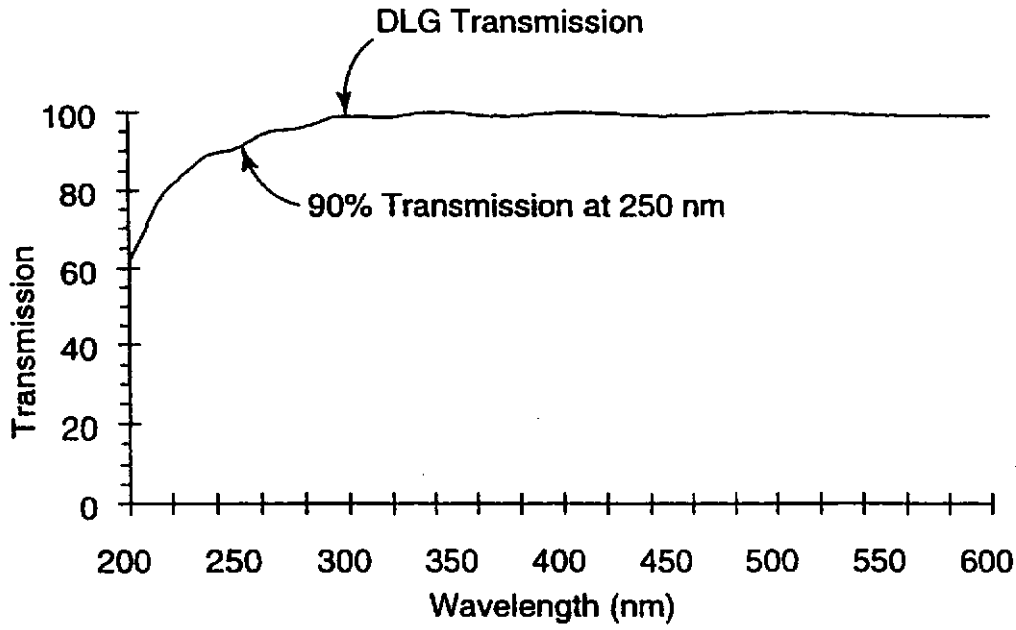

DLG Transmission
90% Transmission at 250 nm
Transmission
100
80
60
40
20
0
200
250
300
350
400
450
500
550
600
Wavelength (nm)

Fig. 4

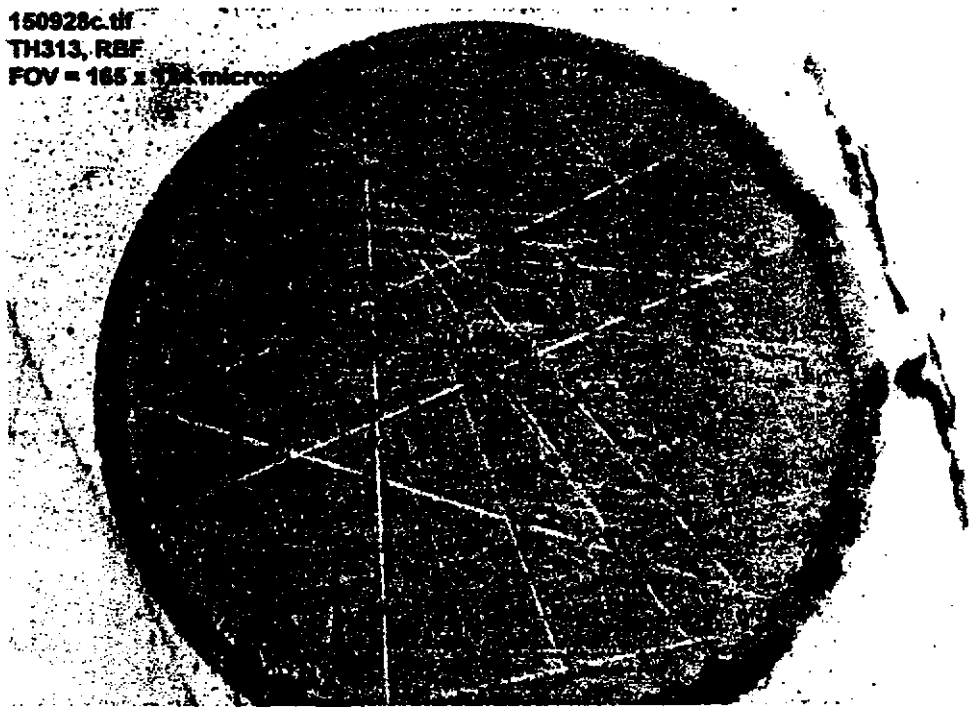


Fig .5

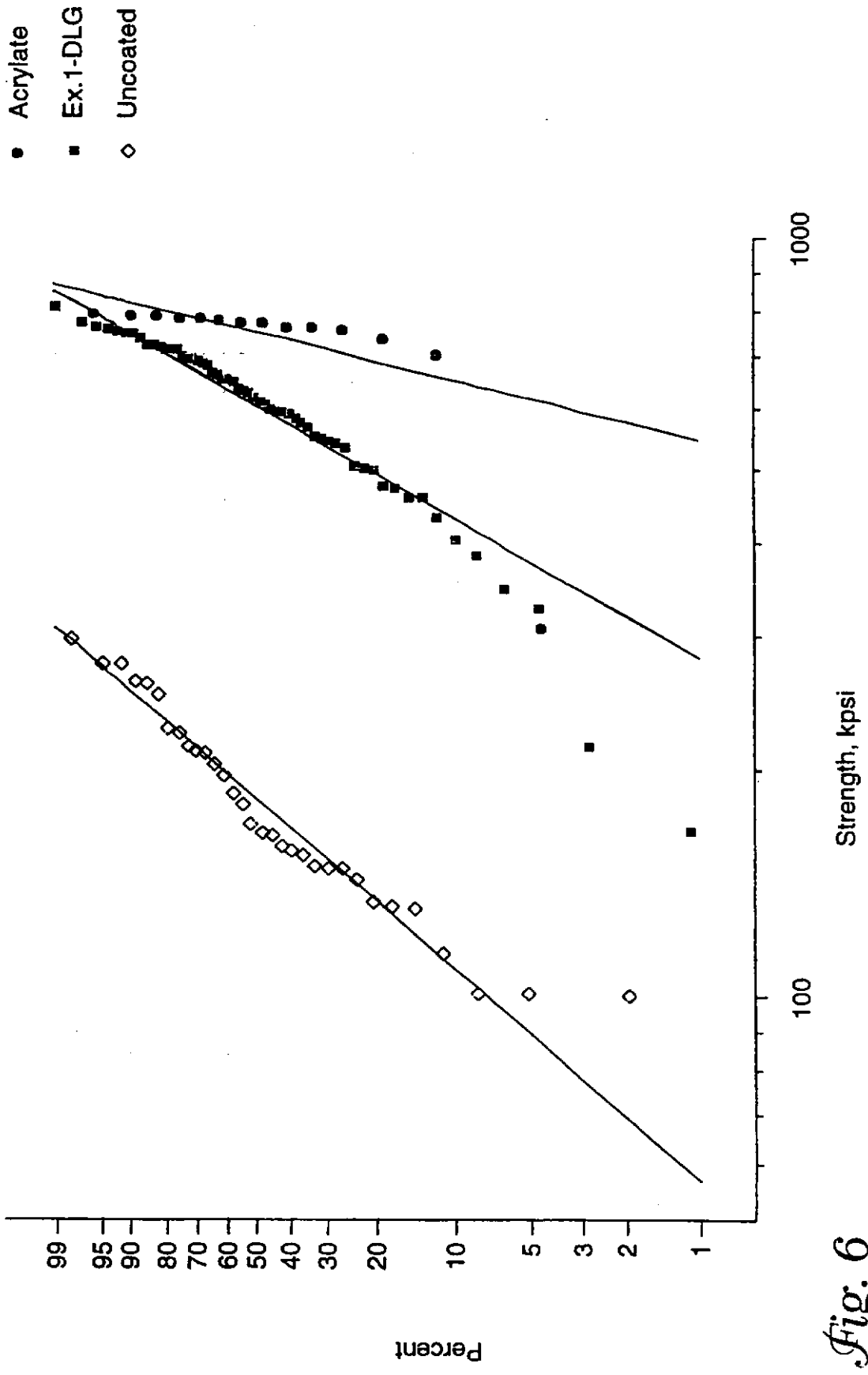

Acrylate
Ex.1-DLG
Uncoated
Percent
99
95
90
80
70
60
50
40
30
20
10
5
3
2
1
100
1000
Strength, kpsi

Fig. 6

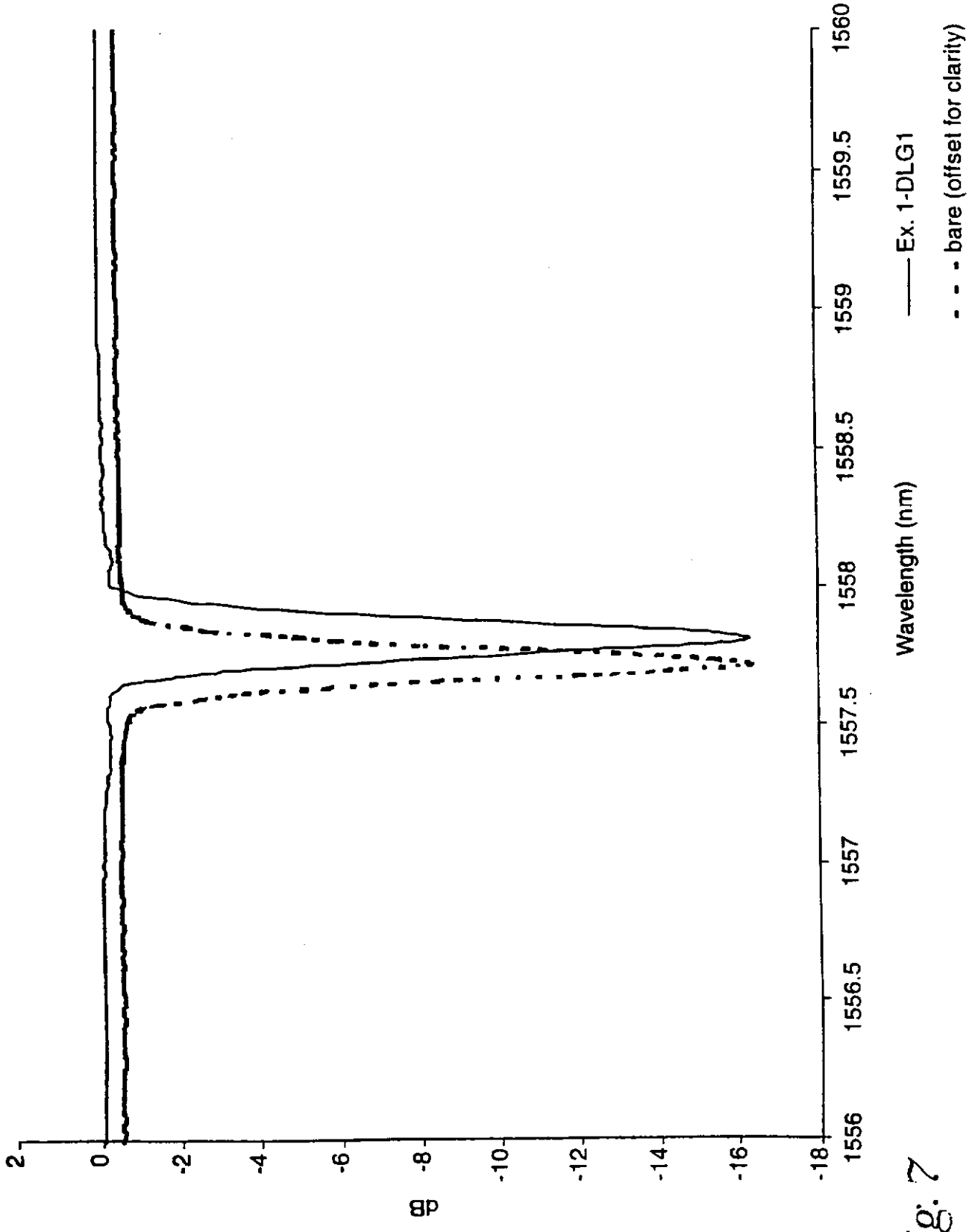

dB
2
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
1556
1556.5
1557
1557.5
1558
1558.5
1559
1559.5
1560
Wavelength (nm)
Ex. 1-DLG1
bare (offset for clarity)

Fig. 7

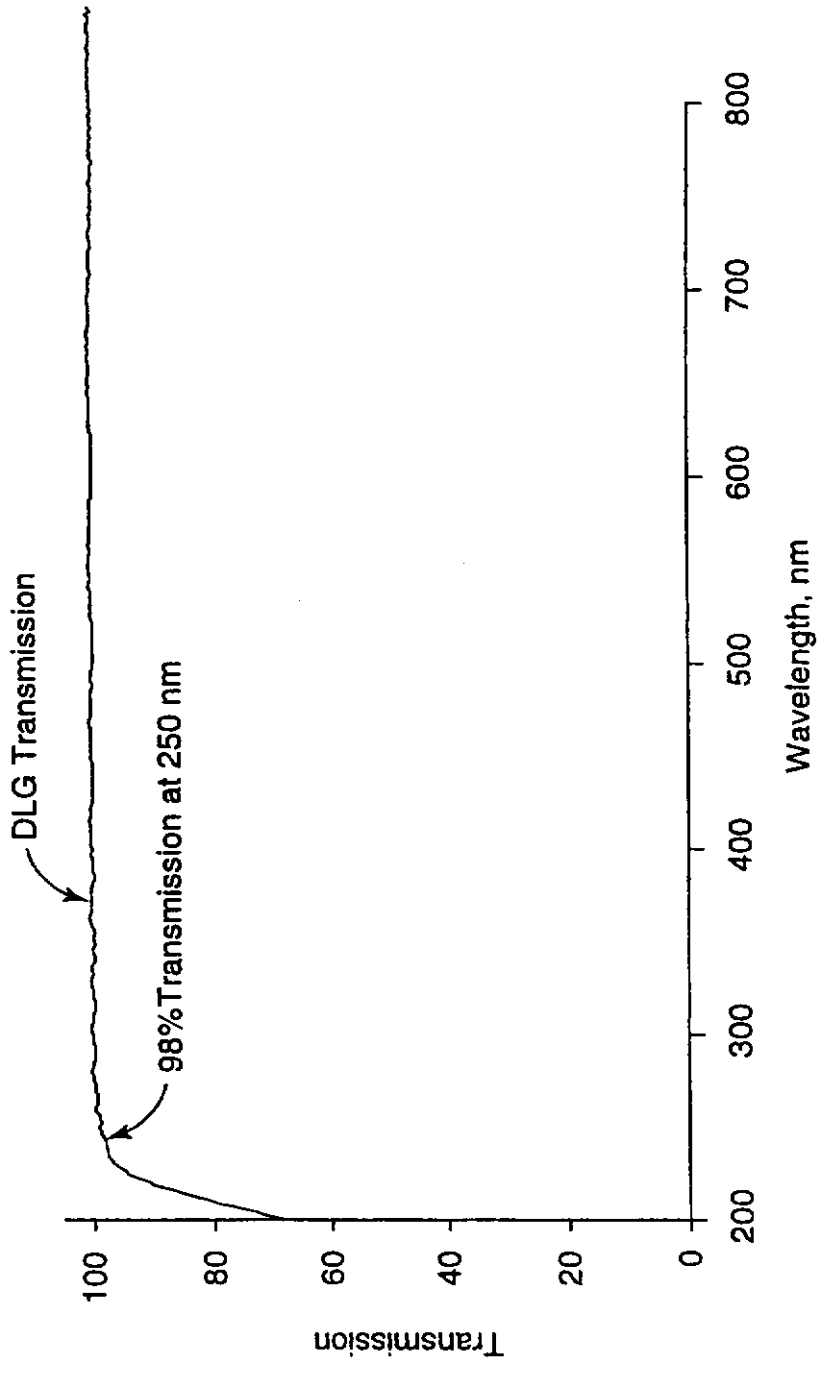

DLG Transmission
98%Transmission at 250 nm
Transmission
100
80
60
40
20
0
200
300
400
500
600
700
800
Wavelength, nm

Fig. 8

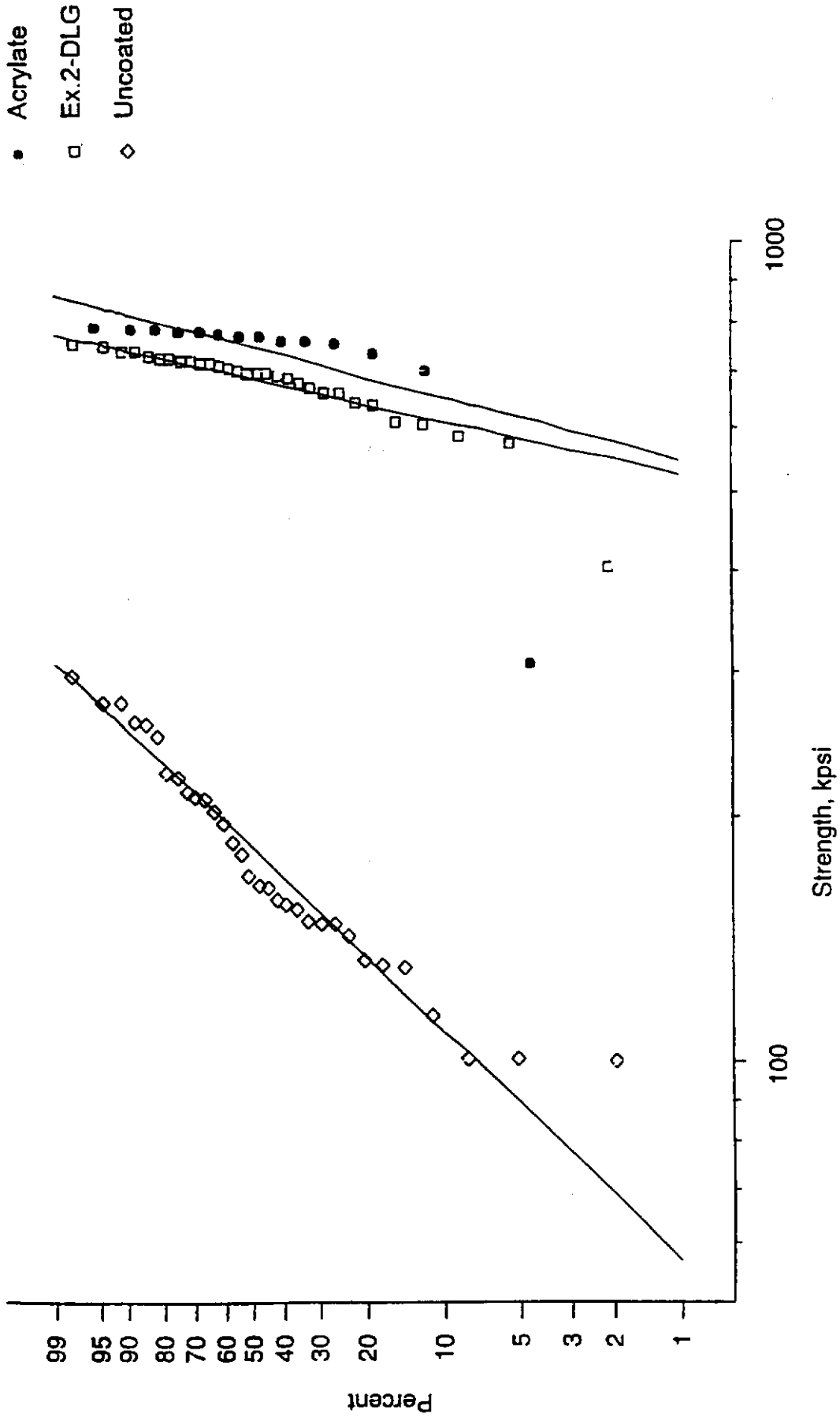

Acrylate
Ex.2-DLG
Uncoated
Percent
99
95
90
80
70
60
50
40
30
20
10
5
3
2
1
Strength, kpsi
100
1000

Fig. 9

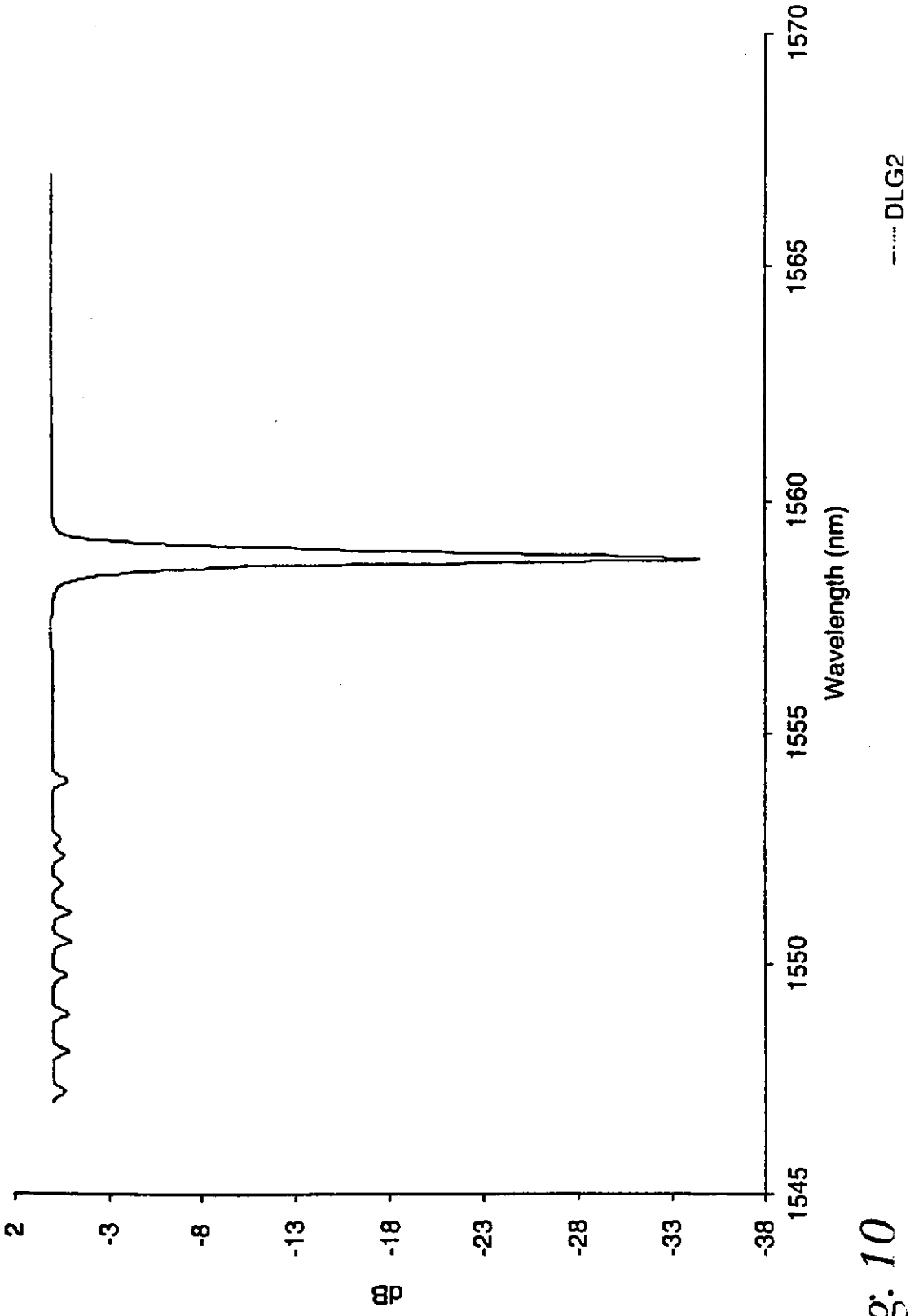

2
-3
-8
-13
-18
-23
-28
-33
-38
dB
1545
1550
1555
1560
1565
1570
Wavelength (nm)
DLG2

Fig. 10

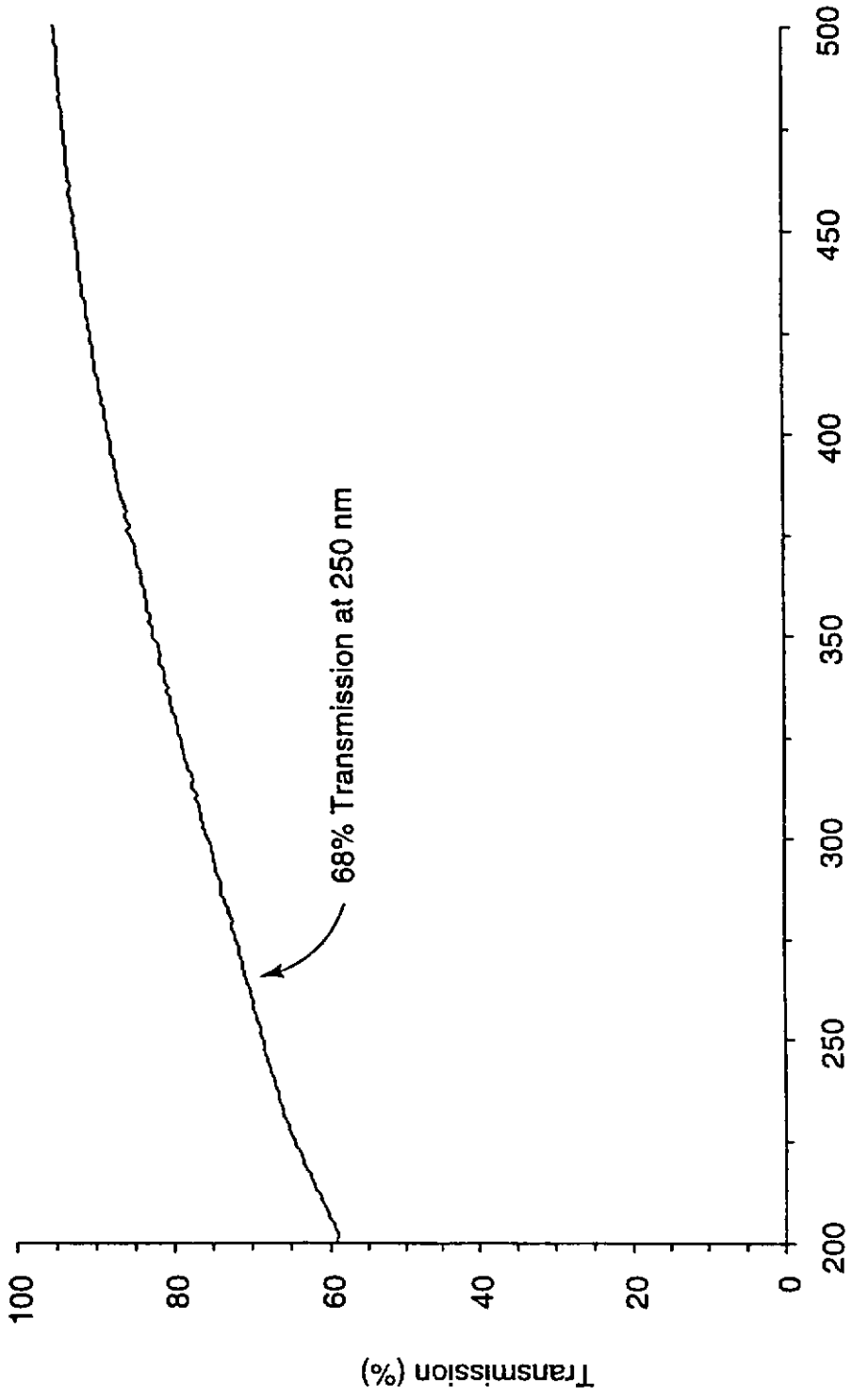

Transmission (%)
100
80
60
40
20
0
200
250
300
350
400
450
500
Wavelength (nm)
68% Transmission at 250 nm

Fig. 11

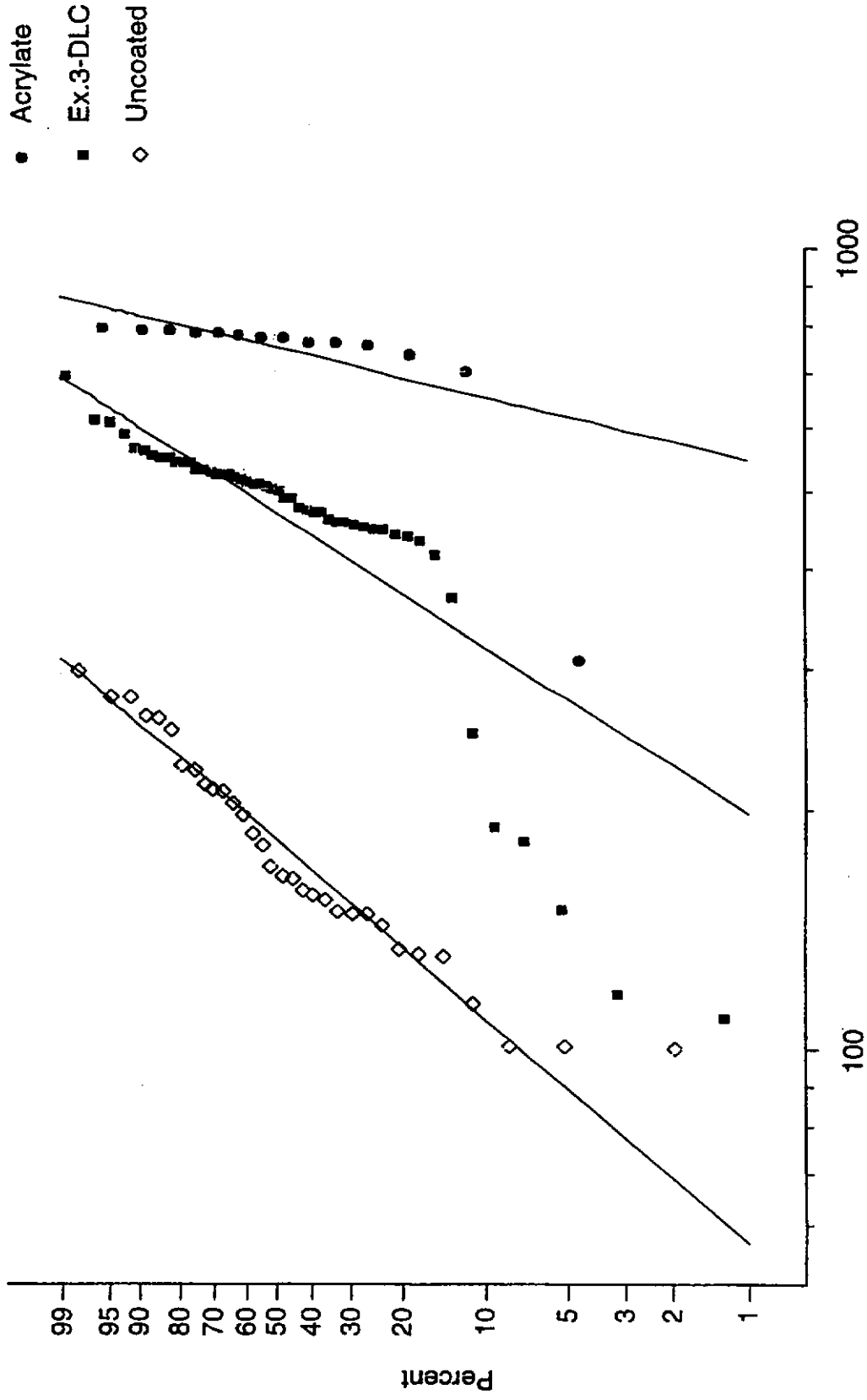

Acrylate
Ex.3-DLC
Uncoated
Percent
99
95
90
80
70
60
50
40
30
20
10
5
3
2
1
100
1000
Strength, kpsi

Fig. 12

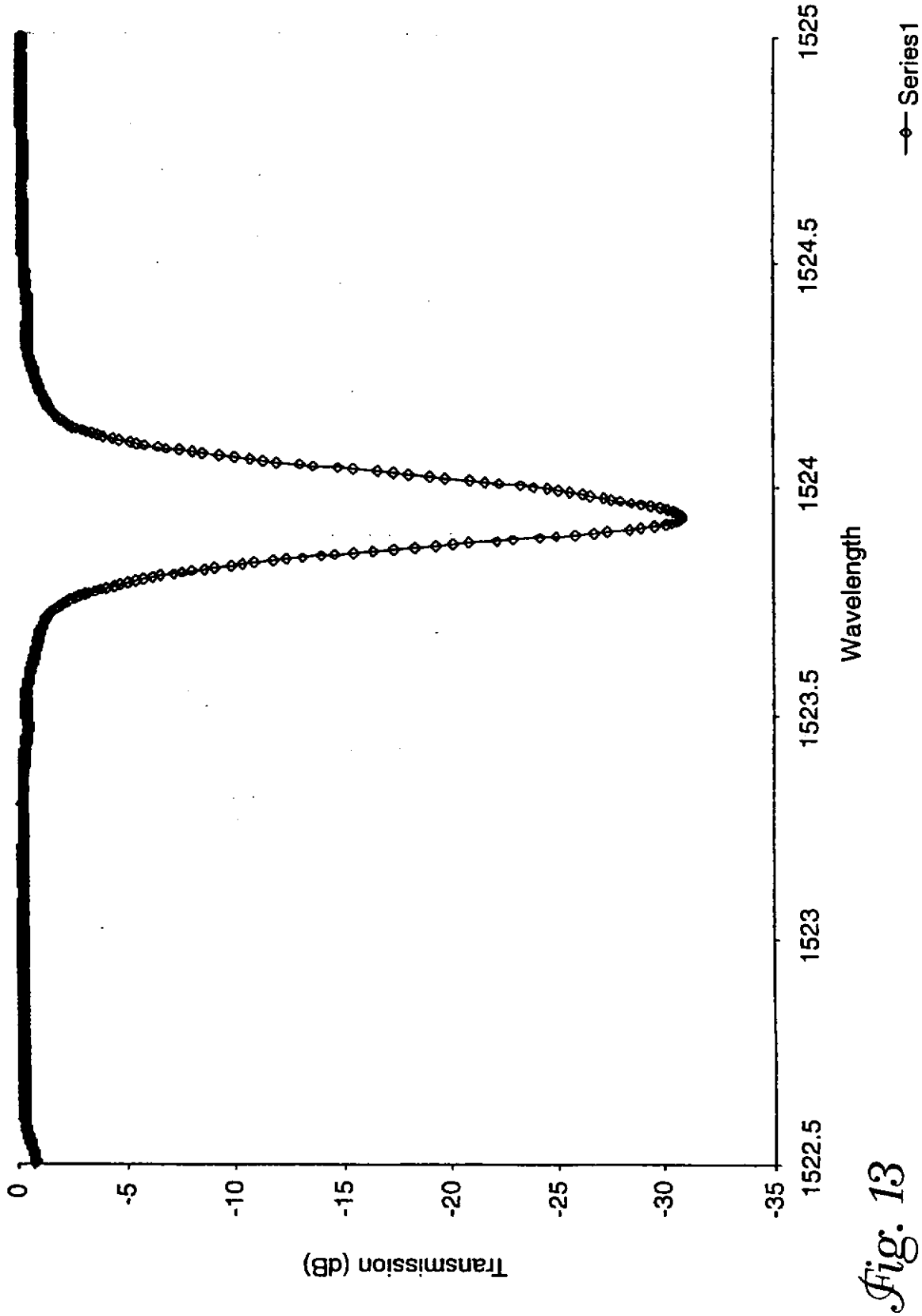

Transmission (dB)
0
-5
-10
-15
-20
-25
-30
-35
1522.5
1523
1523.5
1524
1524.5
1525
Wavelength
Series1

Fig. 13

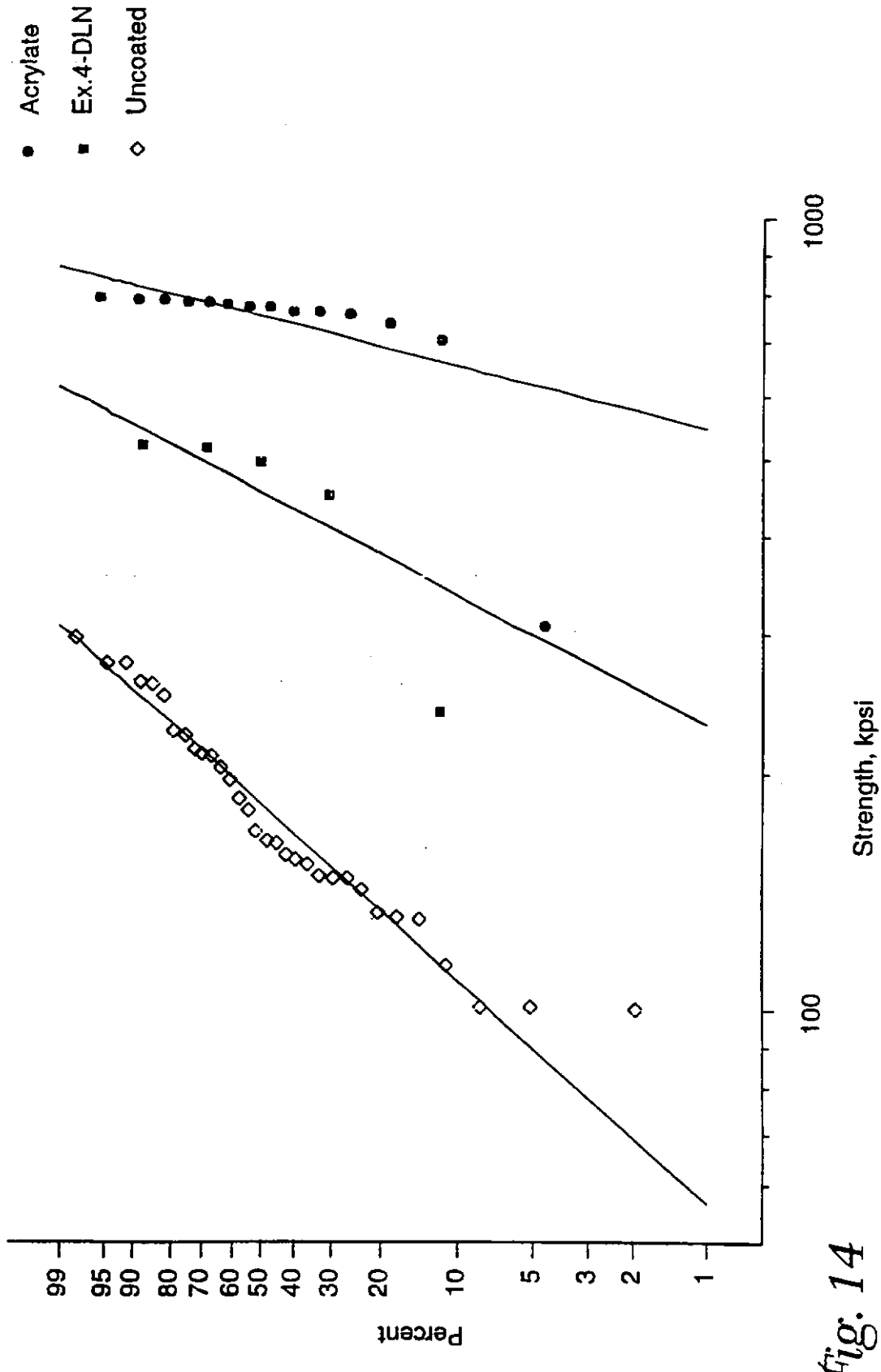

Acrylate
Ex.4-DLN
Uncoated
Percent
99
95
90
80
70
60
50
40
30
20
10
5
3
2
1
100
1000
Strength, kpsi

Fig. 14

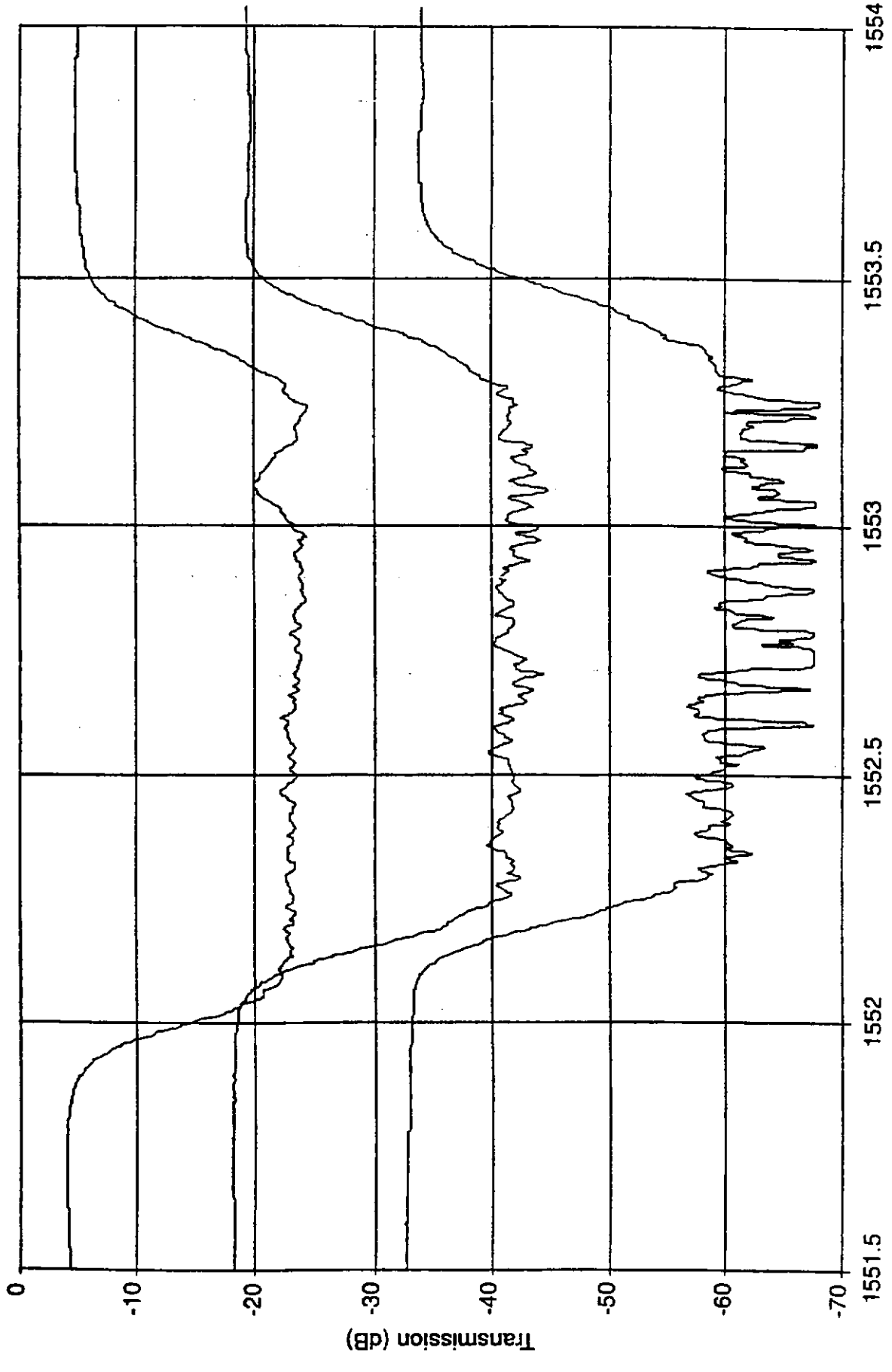

0
-10
-20
-30
-40
-50
-60
-70
Transmission (dB)
1551.5
1552
1552.5
1553
1553.5
1554
Wavelength (nm)

Fig. 15

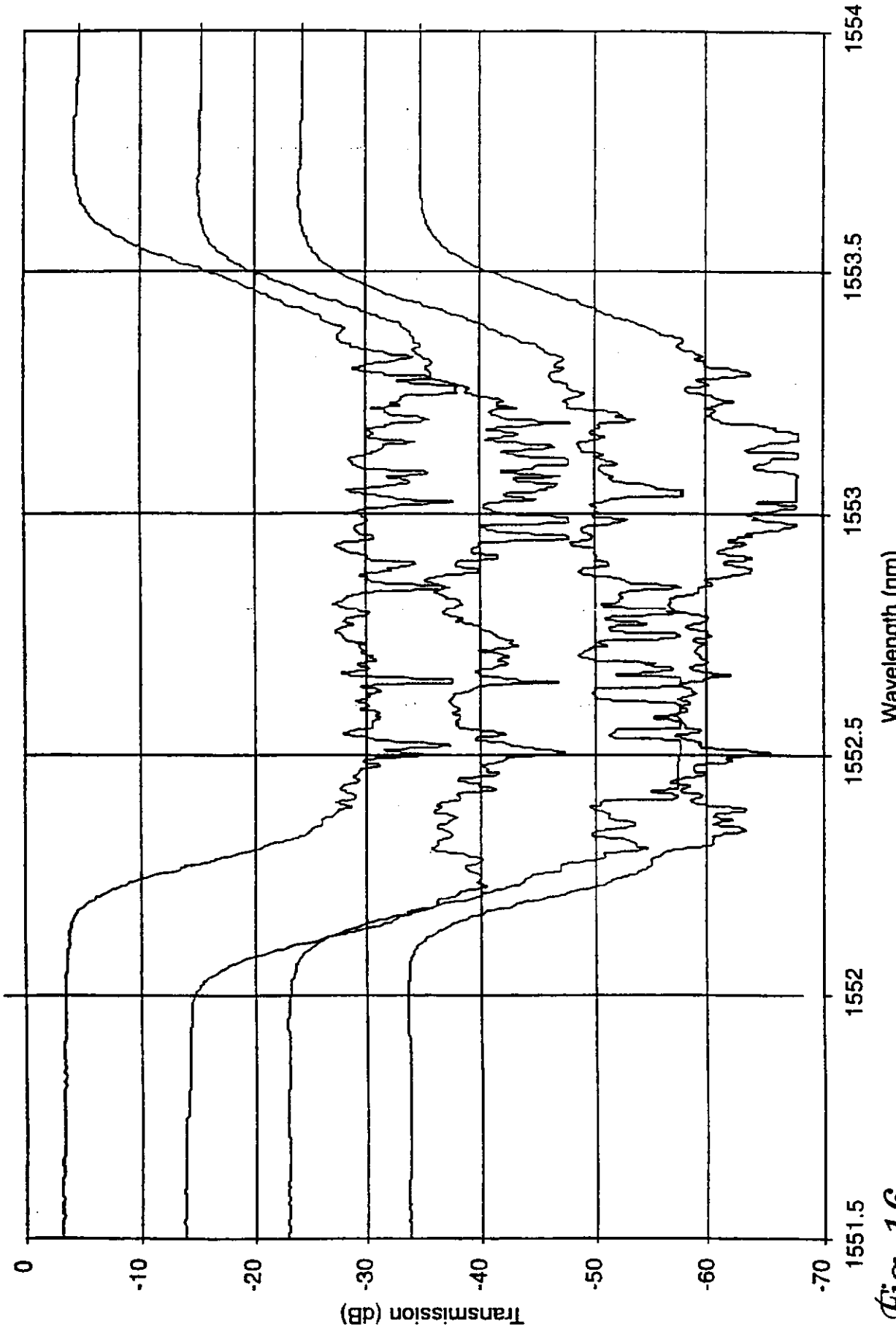

Transmission (dB)
0
-10
-20
-30
-40
-50
-60
-70
1551.5
1552
1552.5
1553
1553.5
1554
Wavelength (nm)

Fig. 16

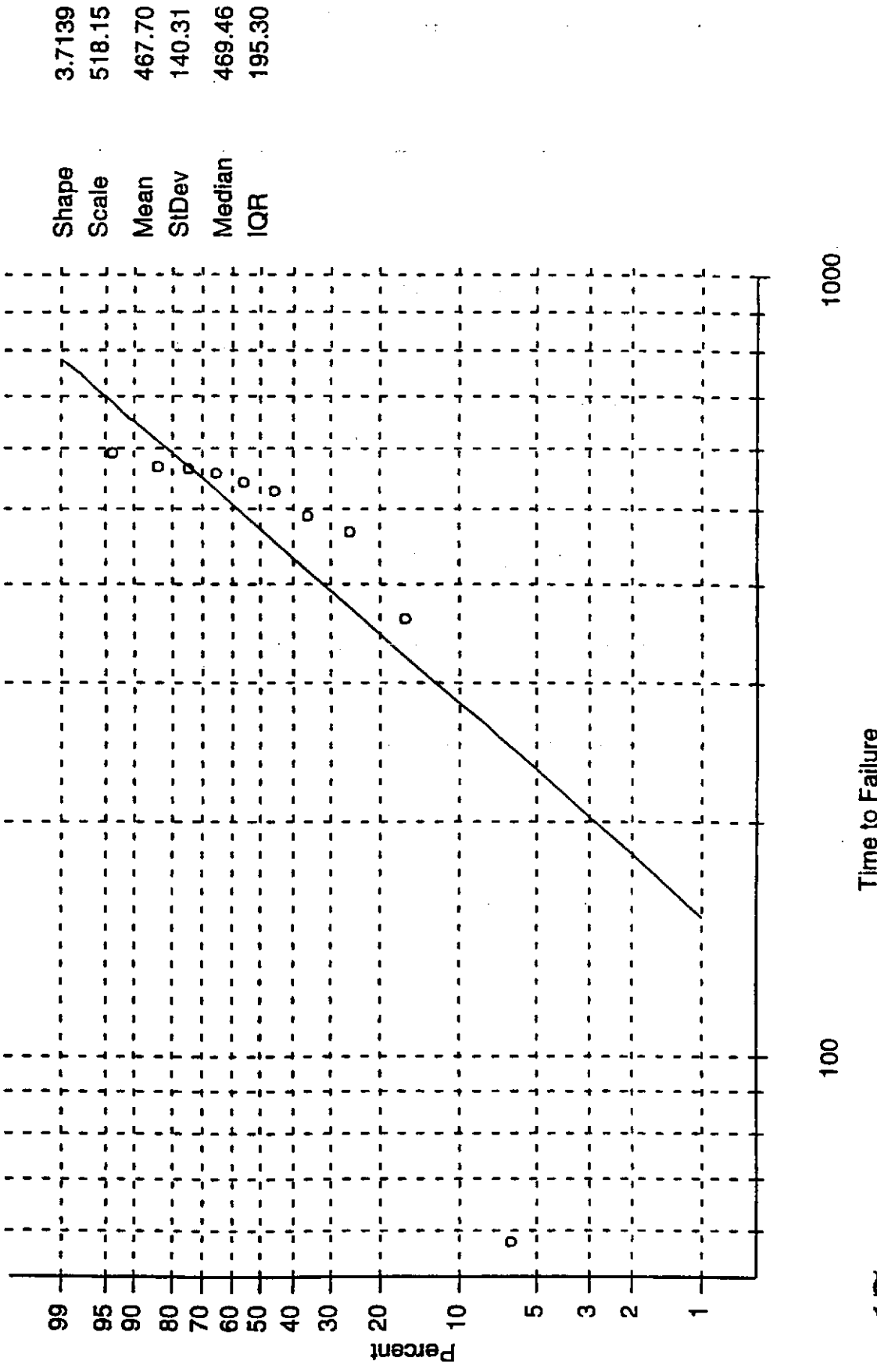

Shape 3.7139
Scale 518.15
Mean 467.70
StDev 140.31
Median 469.46
IQR 195.30
Percent
99
95
90
80
70
60
50
40
30
20
10
5
3
2
1
100
1000
Time to Failure

Fig. 17