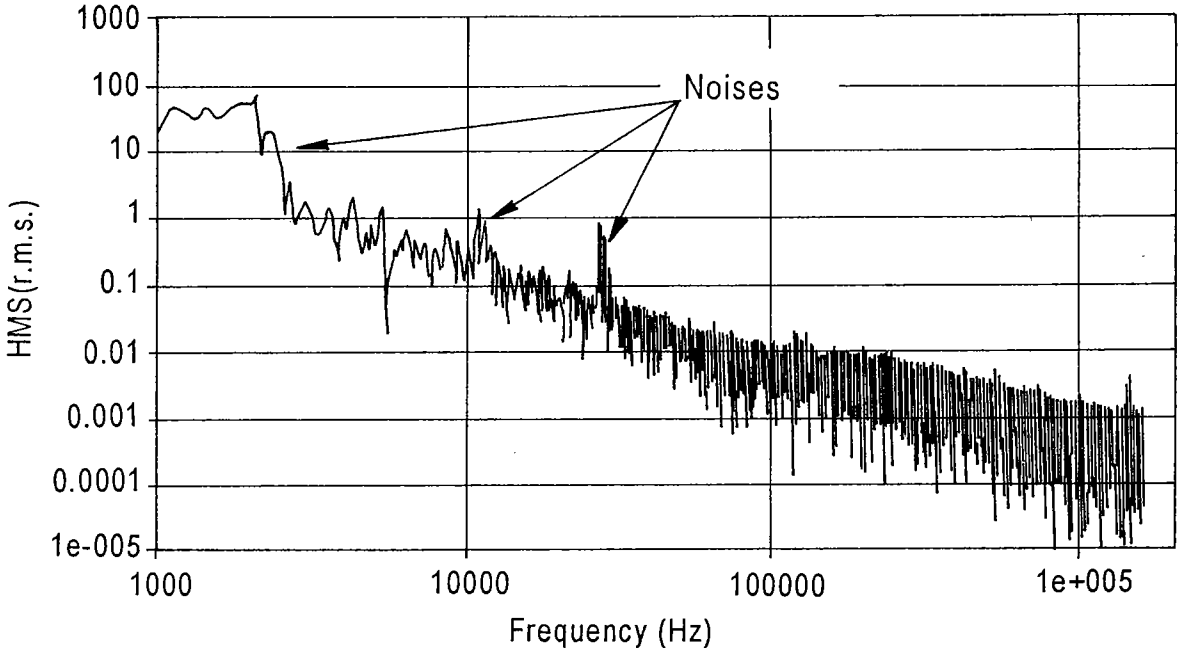

1000
100
10
1
0.1
0.01
0.001
0.0001
1e-005
HMS(r.m.s.)
Noises
1000
10000
100000
1e+005
Frequency (Hz)

Fig. 1

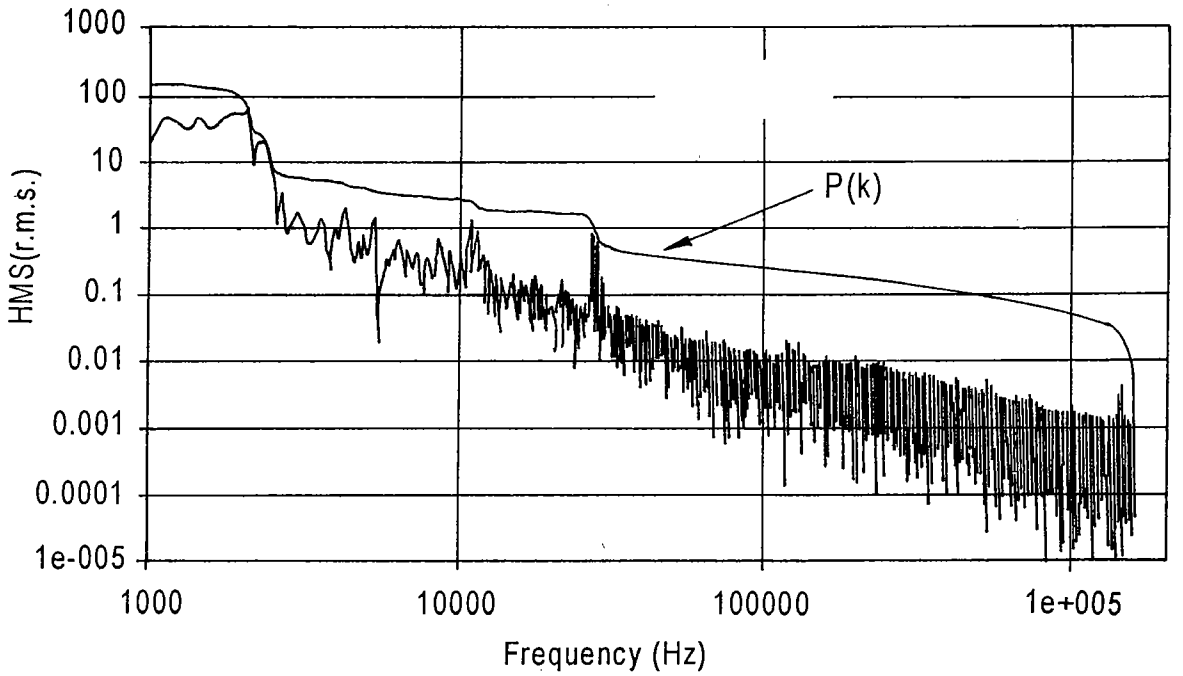

1000
100
10
1
0.1
0.01
0.001
0.0001
1e-005
HMS(r.m.s.)
P(k)
1000
10000
100000
1e+005
Frequency (Hz)

Fig. 2

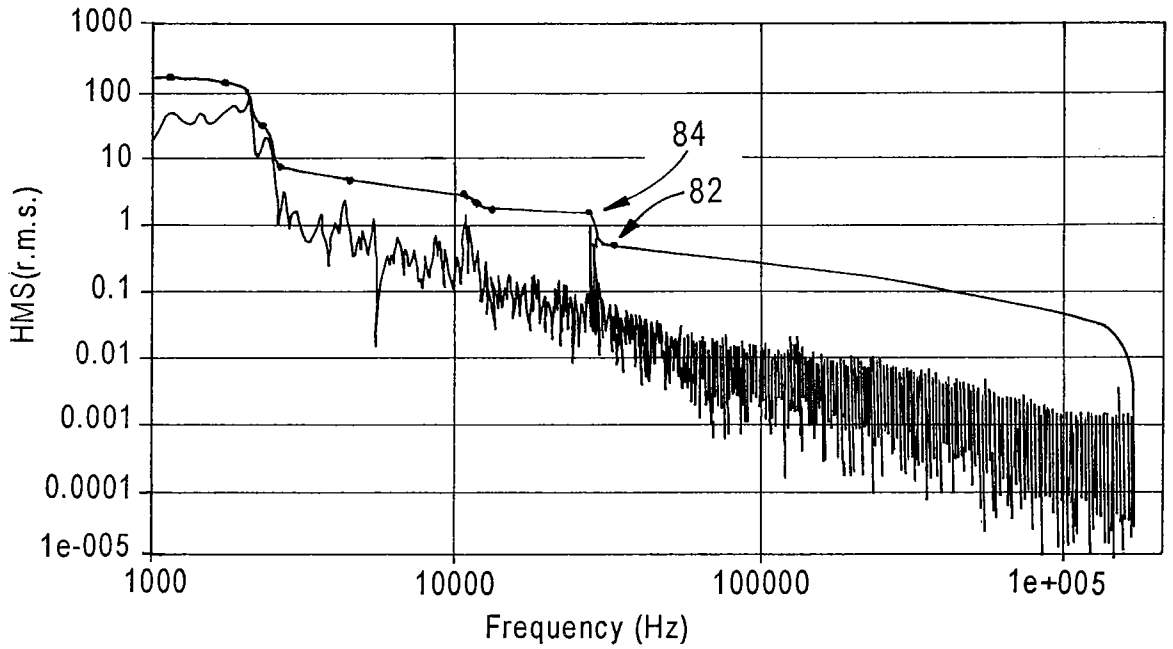

1000
100
10
1
0.1
0.01
0.001
0.0001
1e-005
HMS(r.m.s.)
84
82
1000
10000
100000
1e+005
Frequency (Hz)

Fig. 3

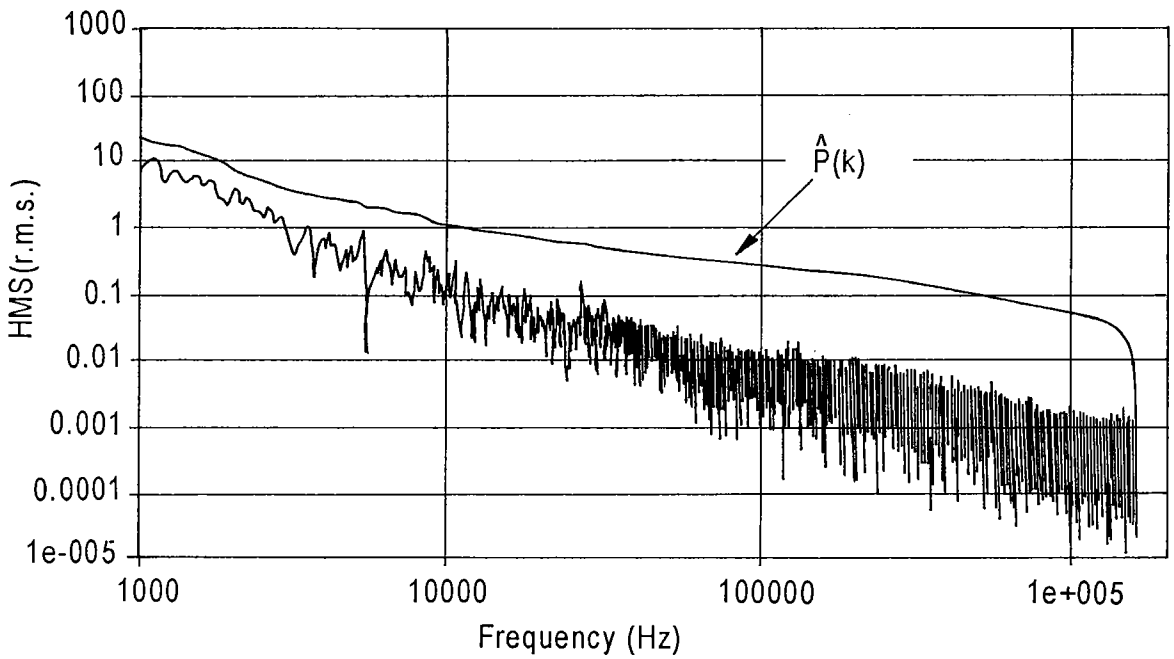

1000
100
10
1
0.1
0.01
0.001
0.0001
1e-005
HMS(r.m.s.)
$\hat{P}(k)$
1000
10000
100000
1e+005
Frequency (Hz)

Fig. 4

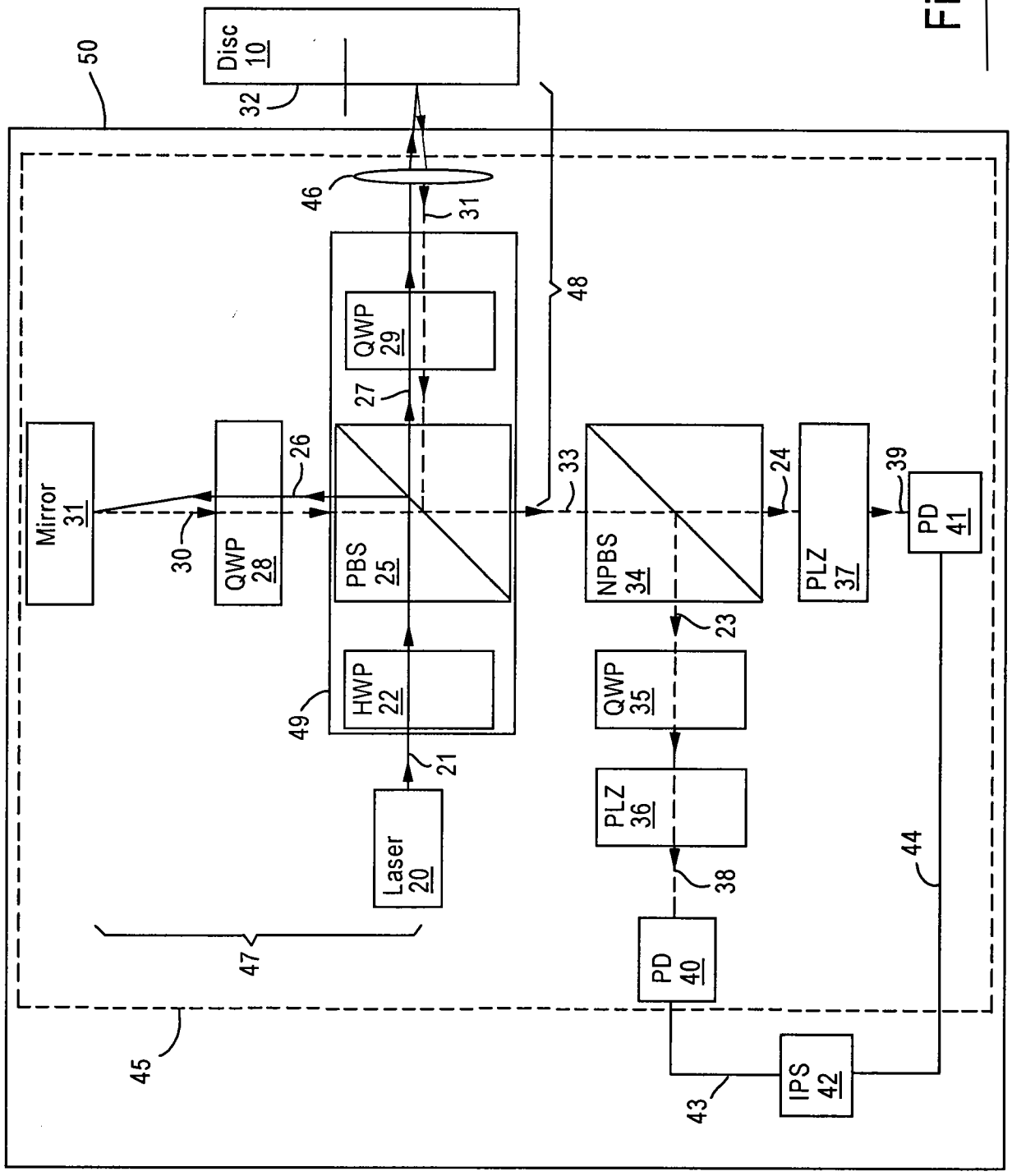

Disc
10
32
50
46
31
48
QWP
29
27
Mirror
31
30
QWP
28
26
PBS
25
33
NPBS
34
24
PLZ
37
39
PD
41
HWP
22
49
QWP
35
23
21
Laser
20
PLZ
36
38
44
47
PD
40
45
43
IPS
42

Fig. 5

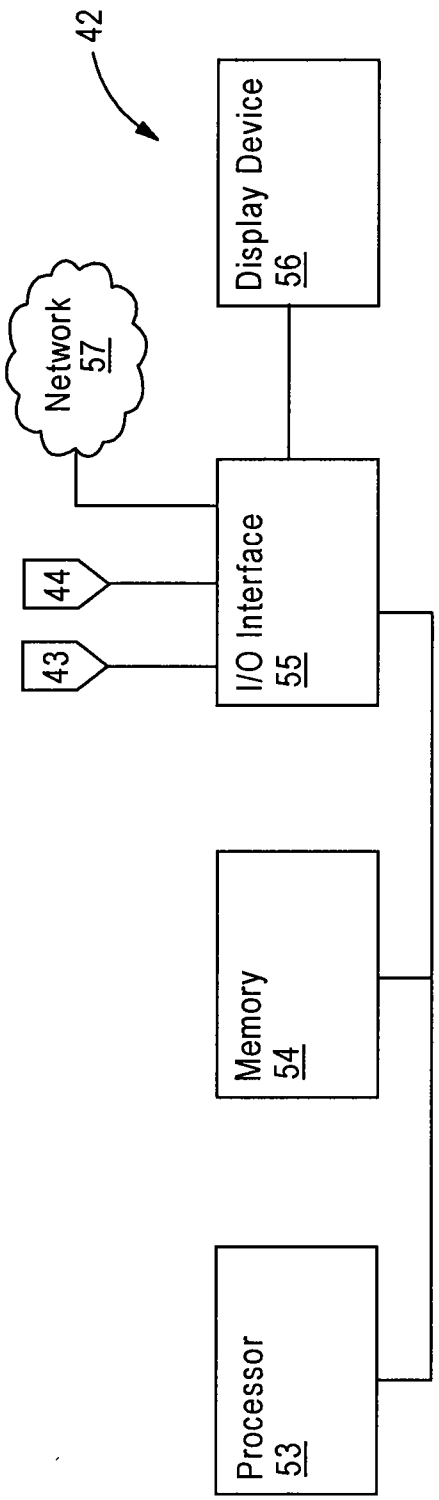

42
Network
57
Display Device
56
44
43
I/O Interface
55
Memory
54
Processor
53

Fig. 6

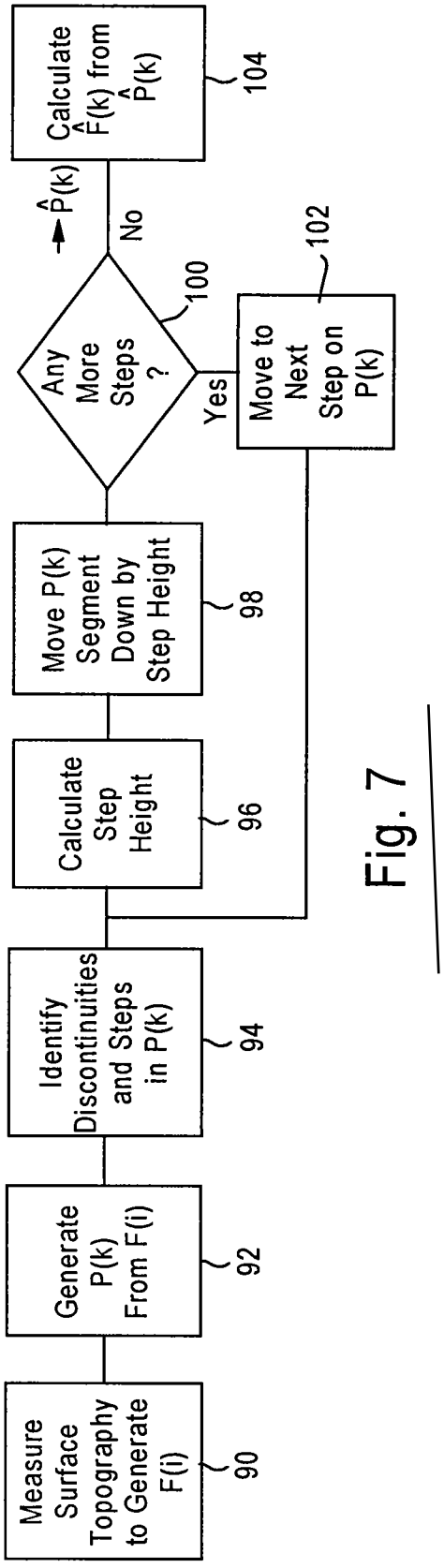

Measure Surface Topography to Generate F(i)
90
Generate P(k) From F(i)
92
Identify Discontinuities and Steps in P(k)
94
Calculate Step Height
96
Move P(k) Segment Down by Step Height
98
Any More Steps ?
100
No
Yes
Move to Next Step on P(k)
102
$\hat{P}(k)$
Calculate $\hat{F}(k)$ from $\hat{P}(k)$
104

Fig. 7

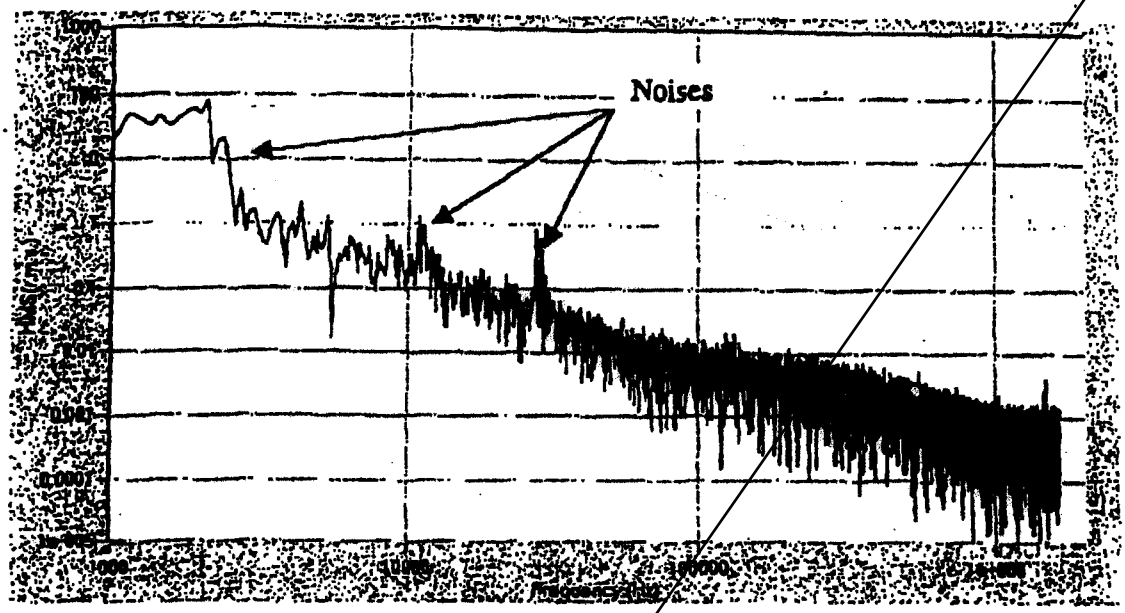


Figure 1

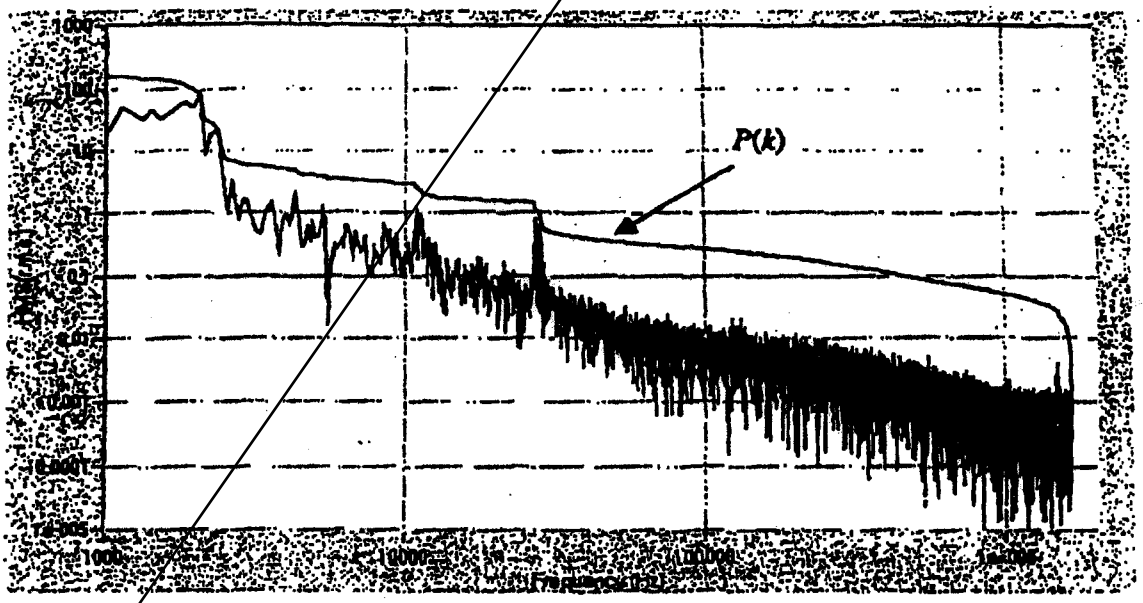


Figure 2

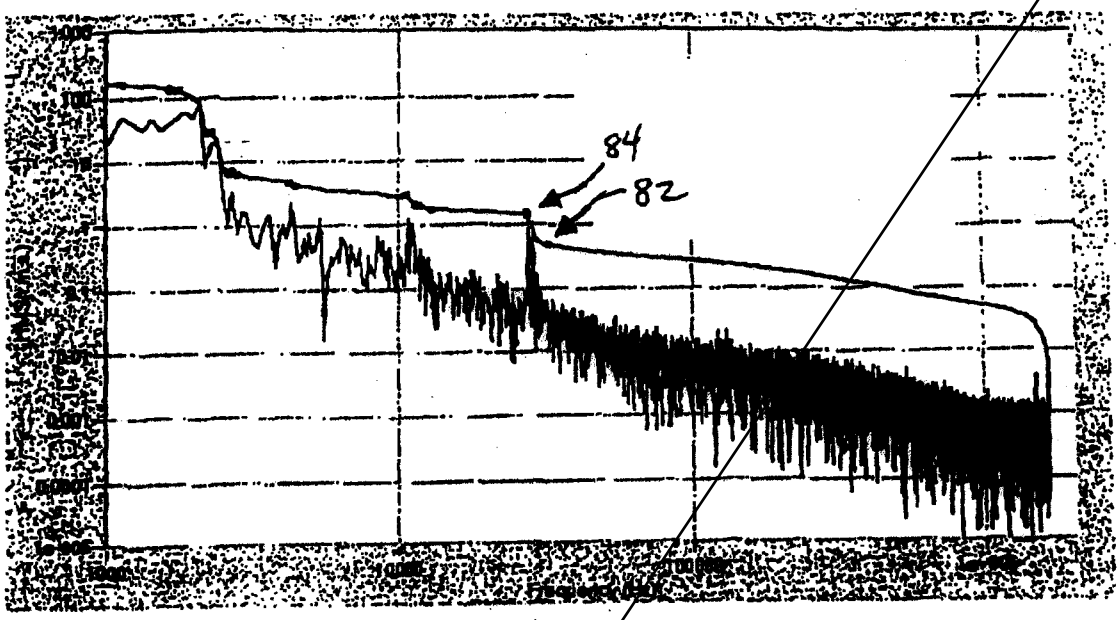


Figure 3

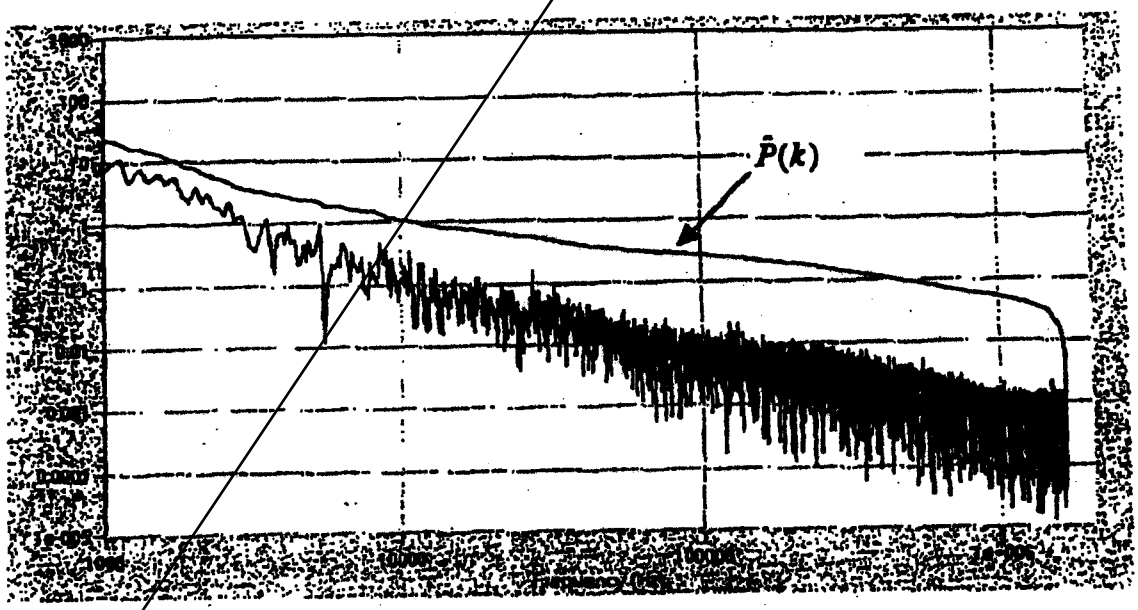


Figure 4

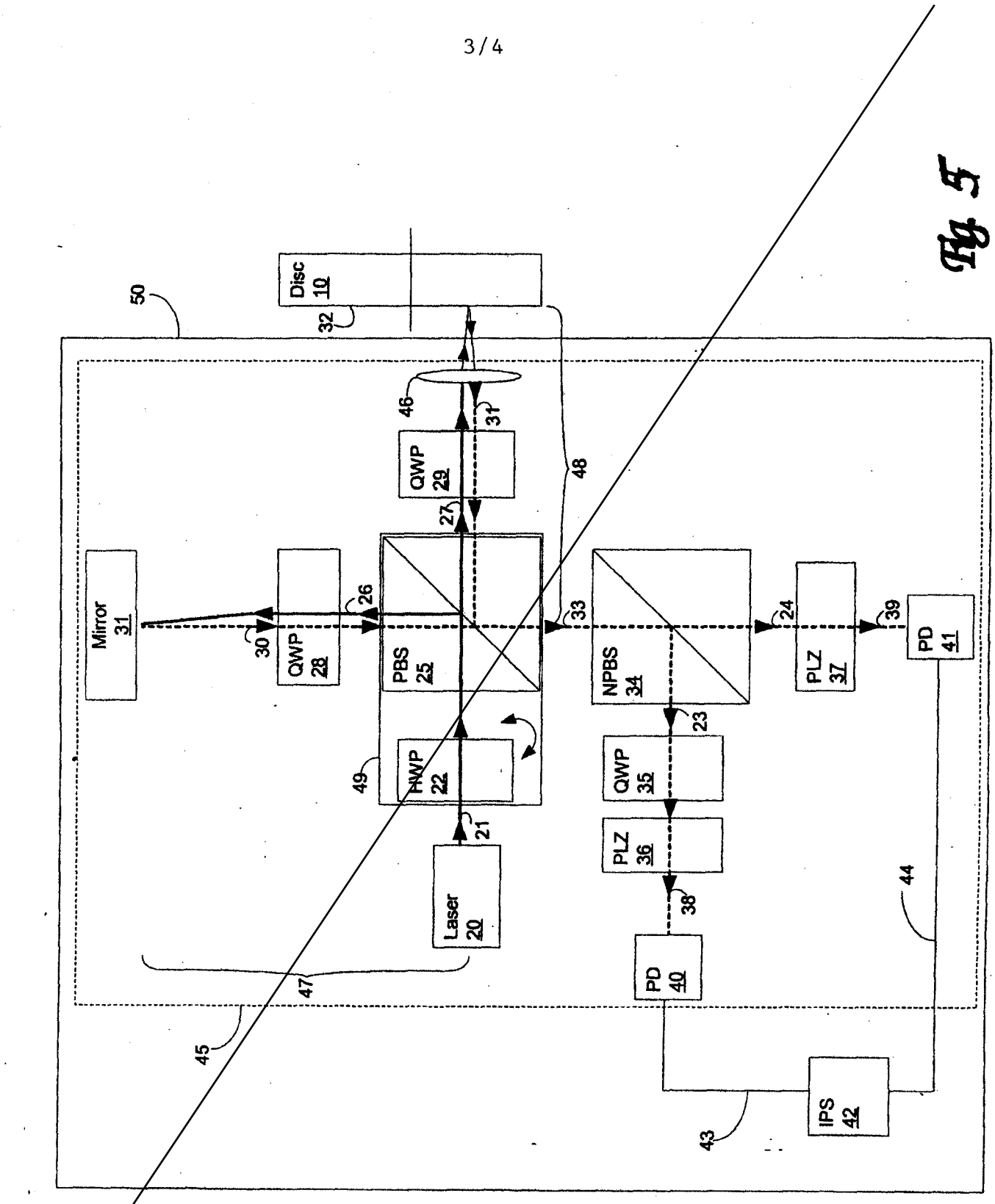

Disc 10
32
50
46
31
QWP 29
27
48
Mirror 31
30
QWP 28
26
PBS 25
33
NPBS 34
24
PLZ 37
39
PD 41
HWP 22
49
23
QWP 35
PLZ 36
38
Laser 20
21
PD 40
44
47
45
IPS 42
43

Fig 4

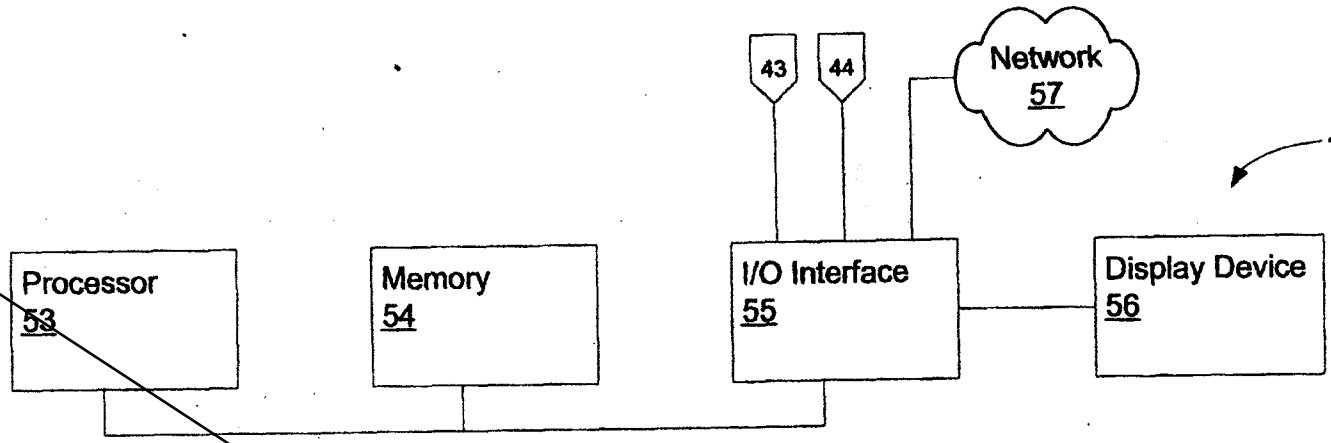
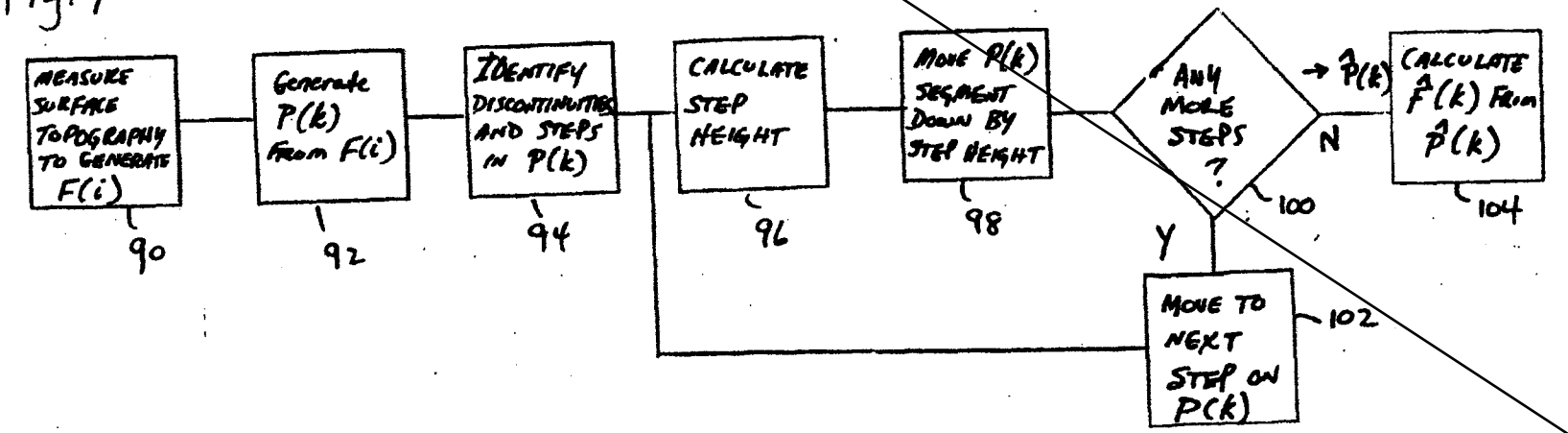

43
44
Network
57
42
Processor
53
Memory
54
I/O Interface
55
Display Device
56

Fig 6

Fig. 7


MEASURE SURFACE TOPOGRAPHY TO GENERATE F(i)
90
Generate P(k) From F(i)
92
IDENTIFY DISCONTINUITIES AND STEPS IN P(k)
94
CALCULATE STEP HEIGHT
96
MOVE P(k) SEGMENT DOWN BY STEP HEIGHT
98
ANY MORE STEPS ?
100
N
→ P̂(k)
CALCULATE F̂(k) From P̂(k)
104
Y
MOVE TO NEXT STEP ON P(k)
102