FIGURE 1

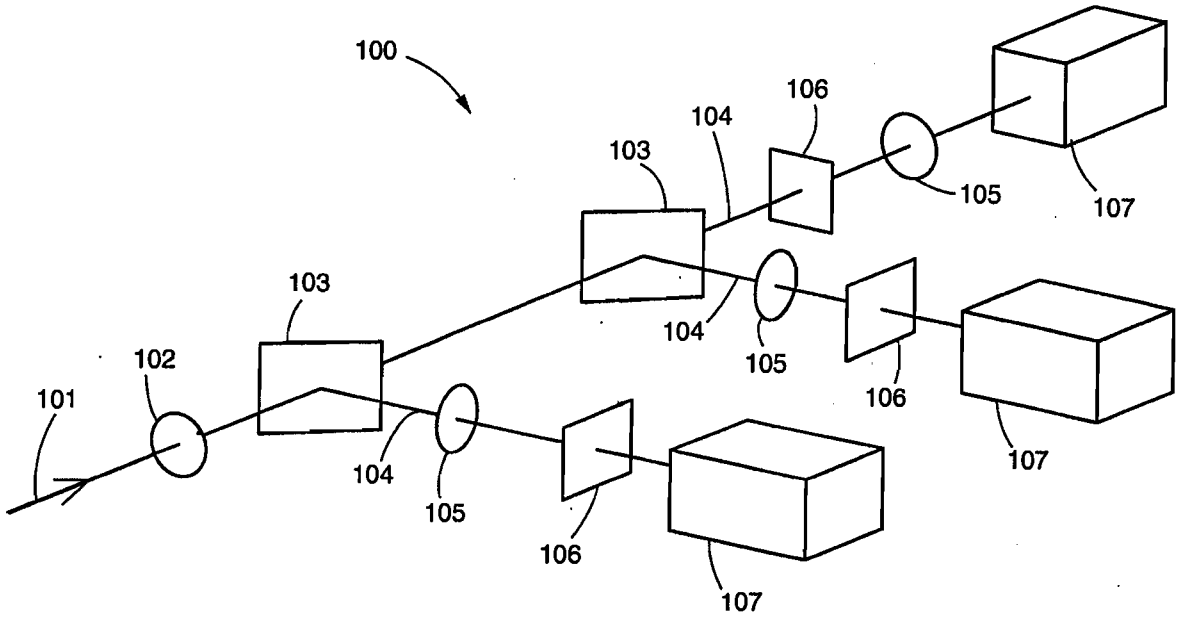

100
101
102
103
104
105
106
107
103
104
105
106
107
104
105
106
107

FIGURE 2

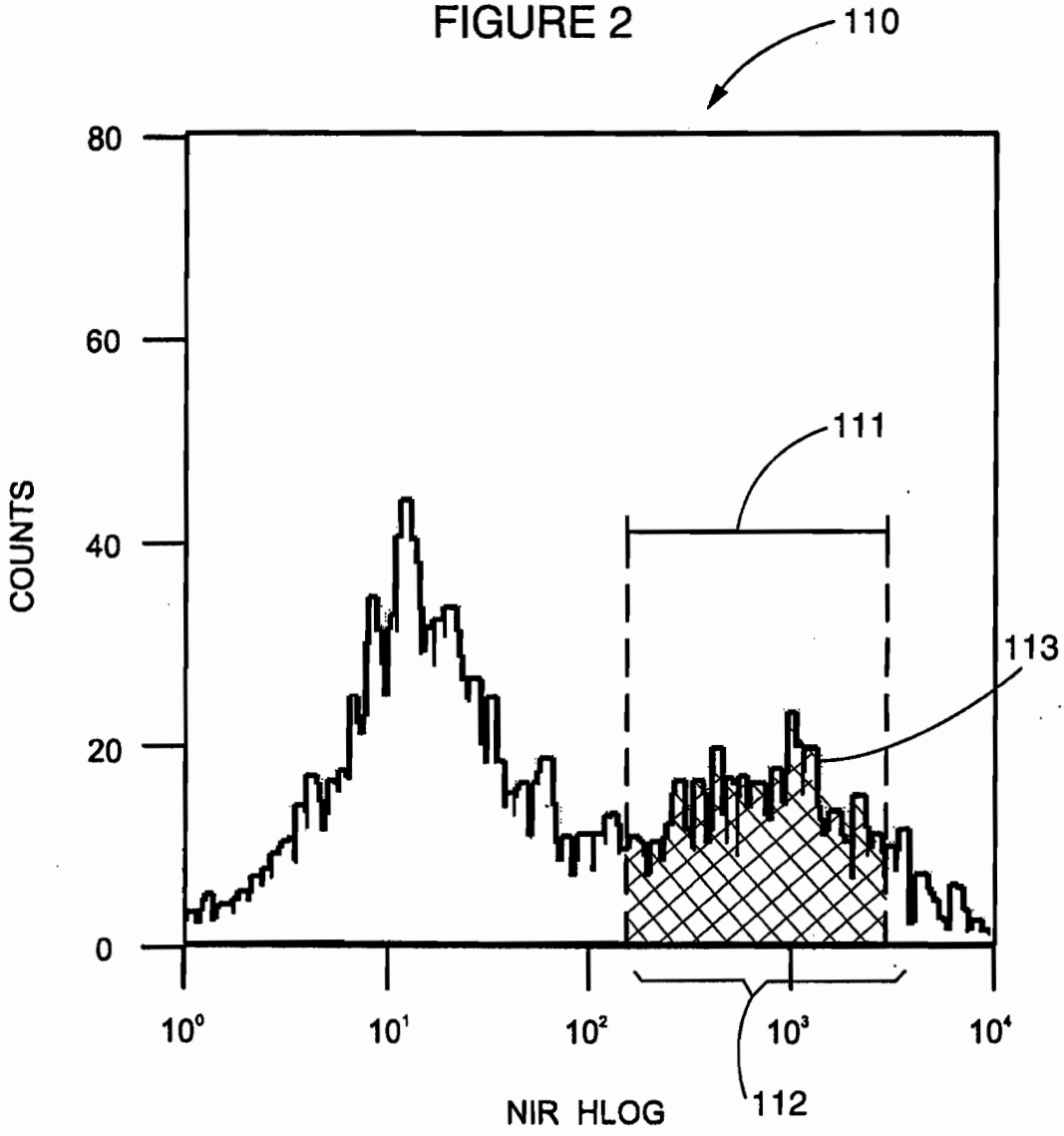


FIGURE 3

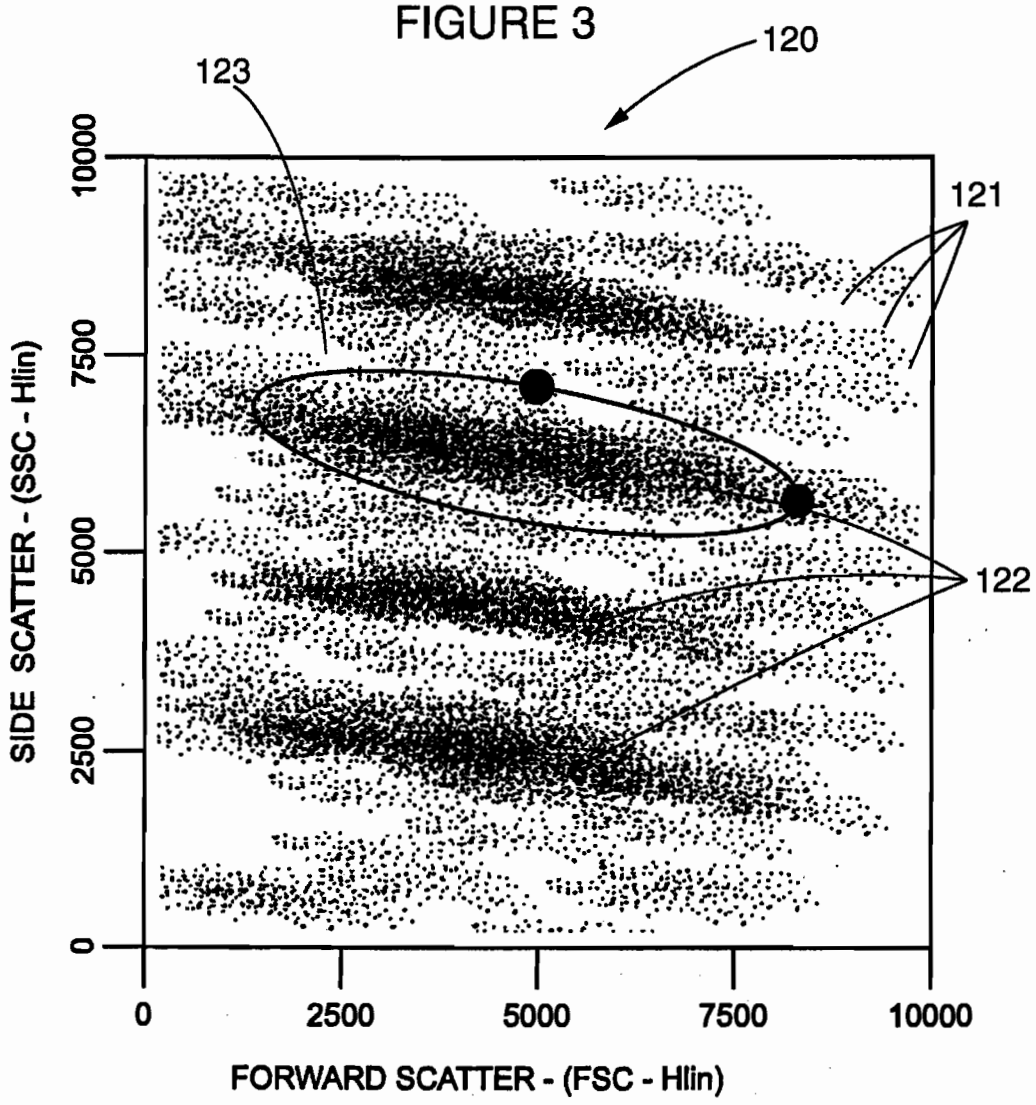
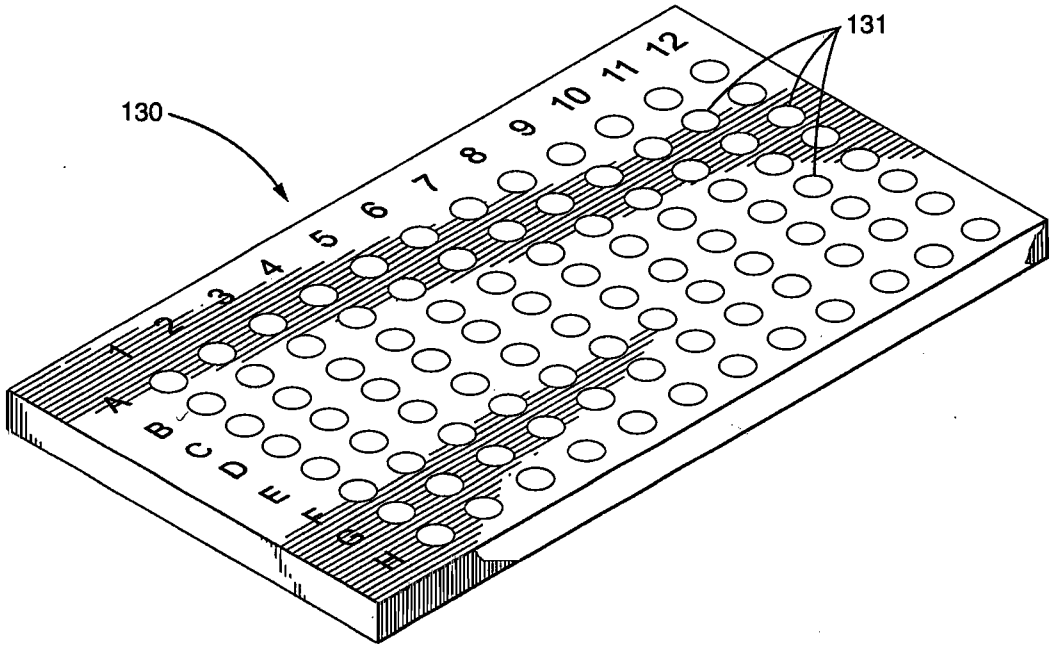

120
123
121
122
10000
7500
5000
2500
0
SIDE SCATTER - (SSC - Hlin)
0
2500
5000
7500
10000
FORWARD SCATTER - (FSC - Hlin)

FIGURE 4



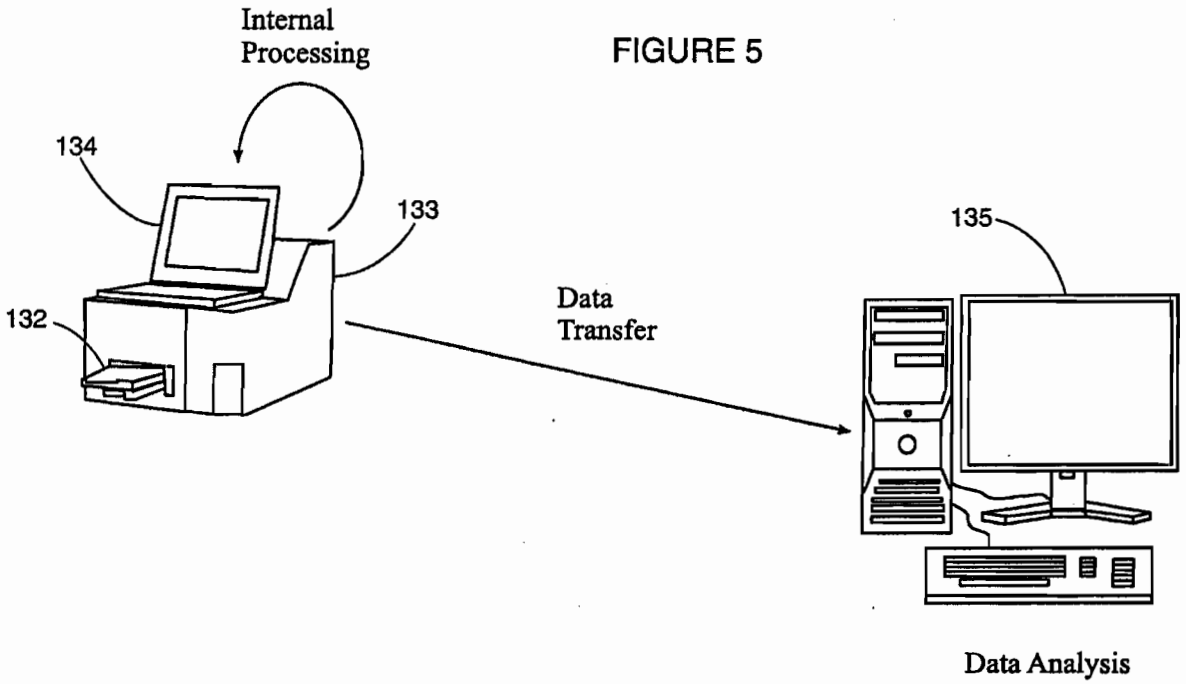

Internal
Processing
134
133
132
Data
Transfer
135
Data Analysis

FIGURE 5

FIGURE 6

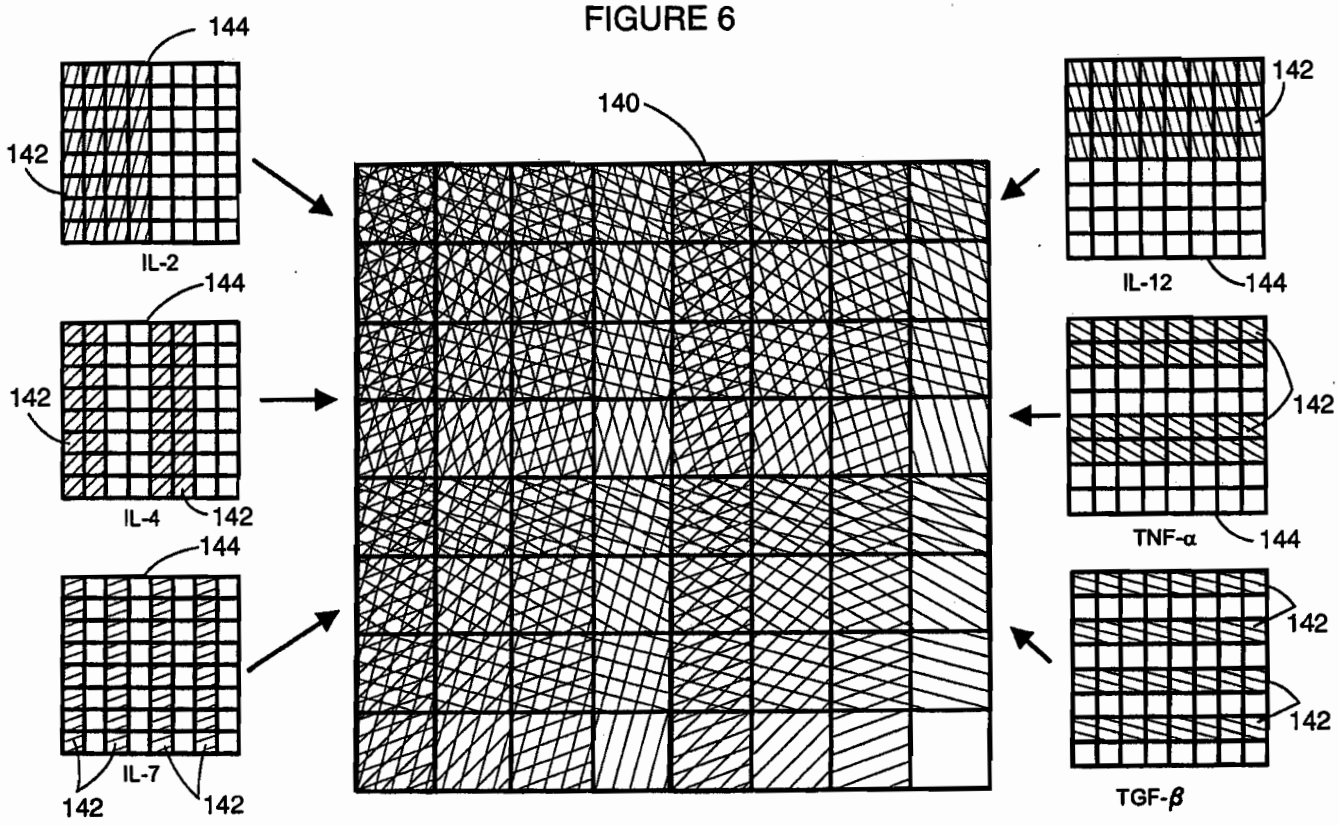

144
142
IL-2
140
142
IL-12
144
144
142
IL-4
142
142
TNF-α
144
144
142
IL-7
142
142
142
TGF-β

FIGURE 7

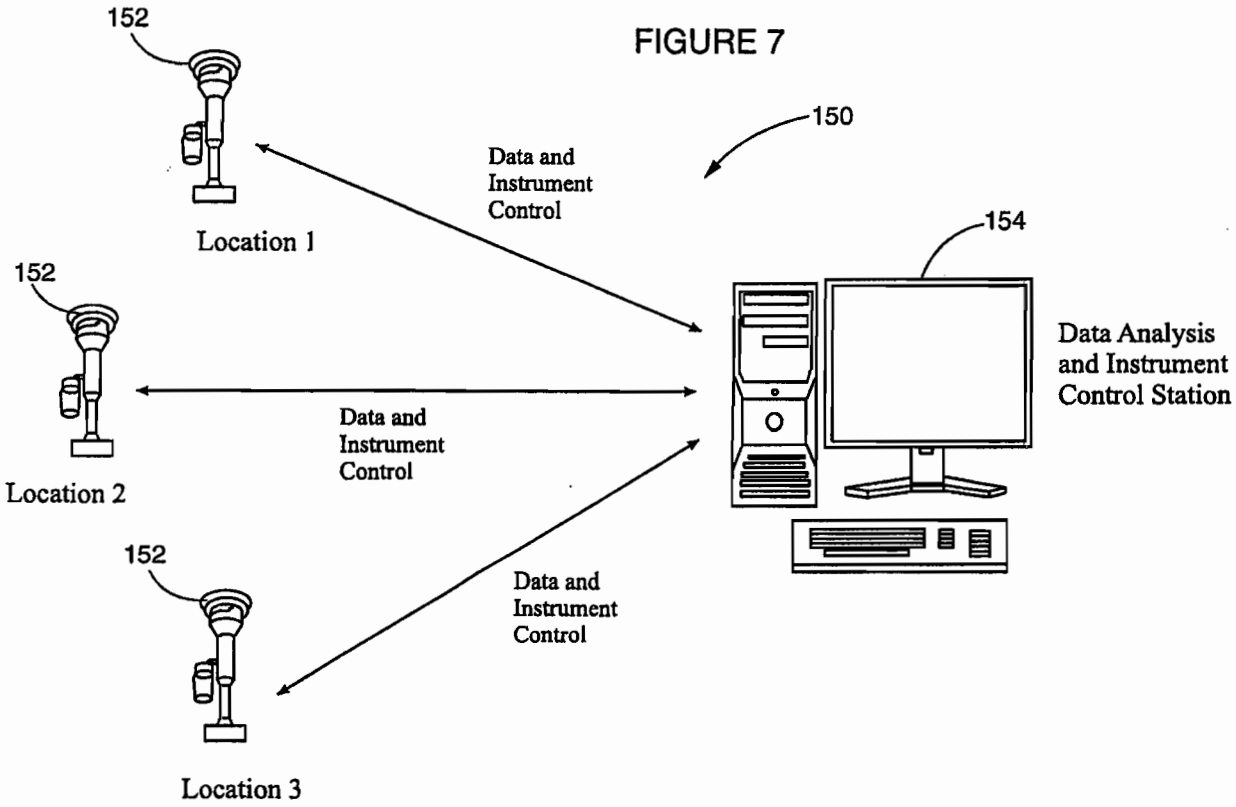

152
Location 1
Data and
Instrument
Control
150
154
Data Analysis
and Instrument
Control Station
152
Location 2
Data and
Instrument
Control
152
Location 3
Data and
Instrument
Control

FIGURE 8

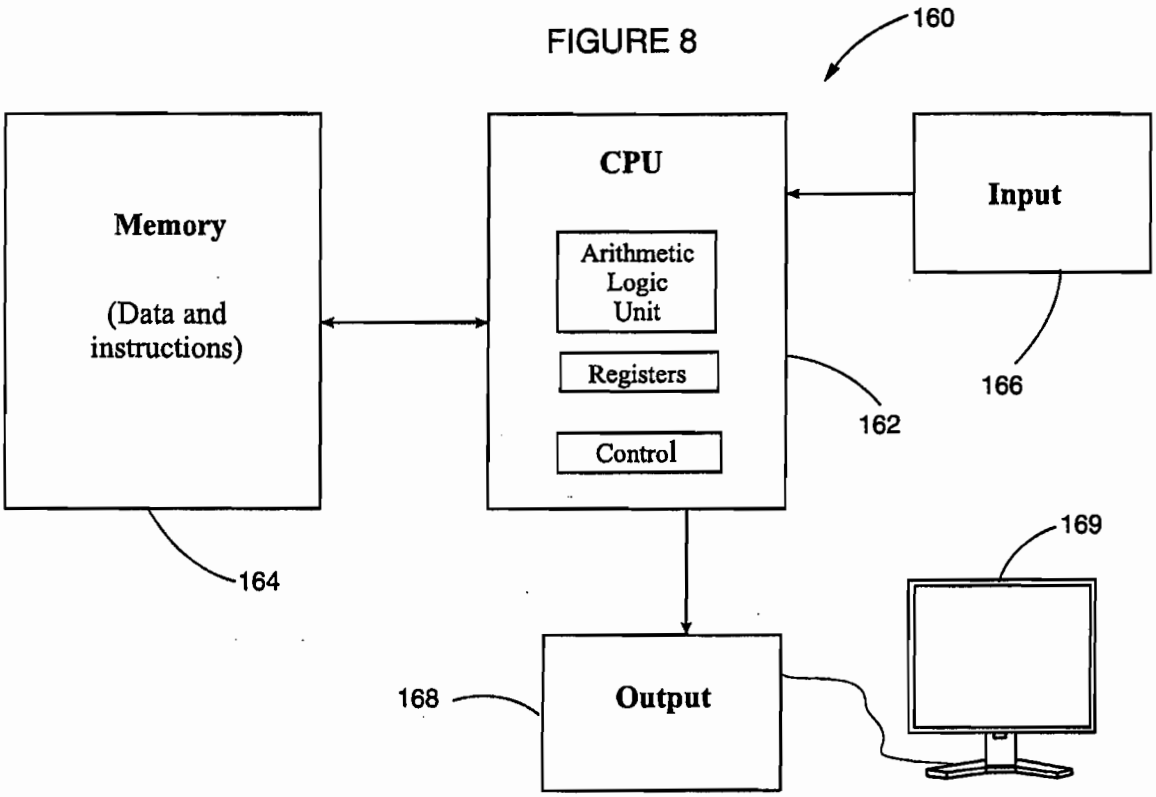

160
CPU
Arithmetic Logic Unit
Registers
Control
Memory
(Data and instructions)
Input
166
162
164
169
168
Output

FIGURE 9

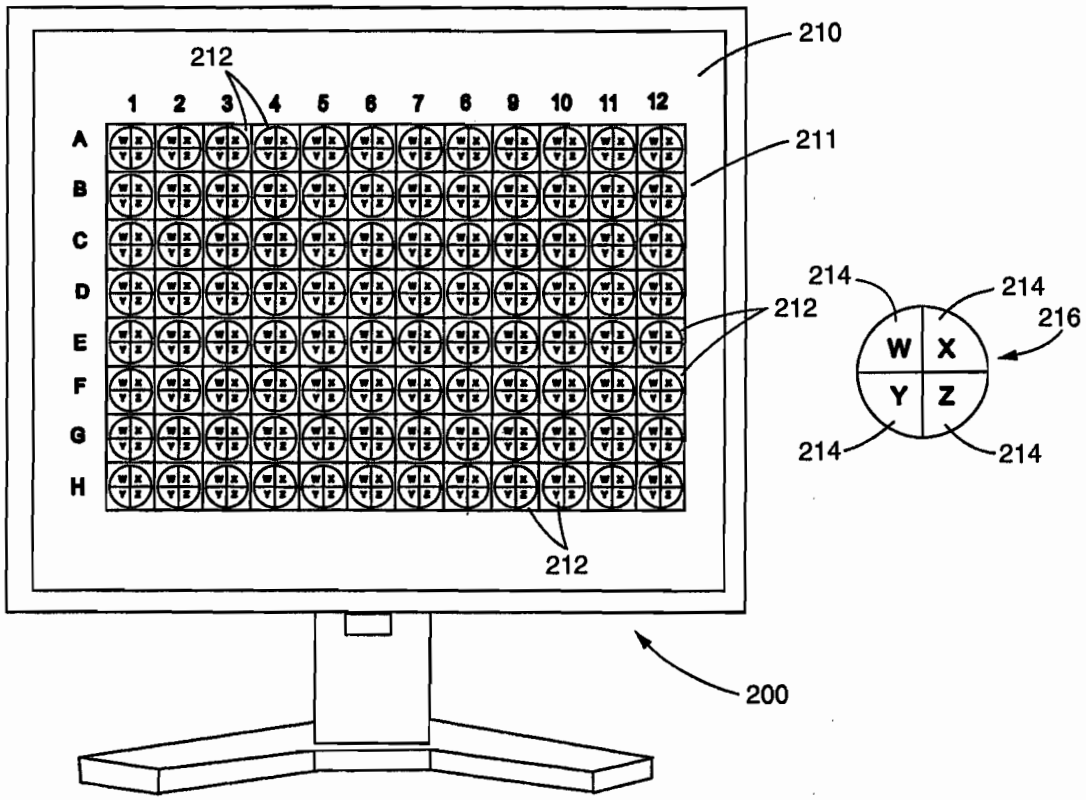

210
212
1 2 3 4 5 6 7 8 9 10 11 12
A
B
C
D
E
F
G
H
211
212
212
214
214
216
W
X
Y
Z
214
214
200

FIGURE 10

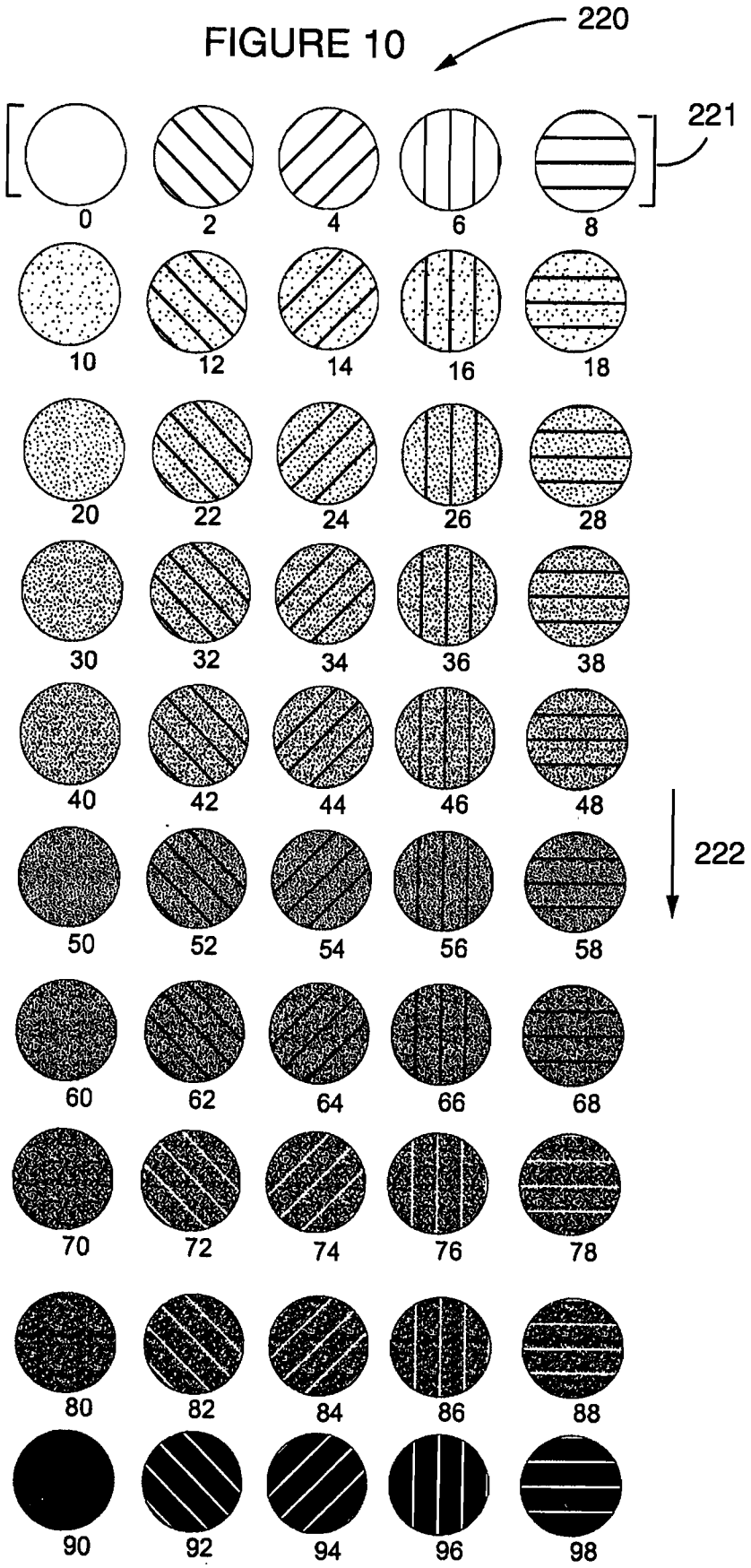

220
221
222
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
86
88
90
92
94
96
98

FIGURE 11

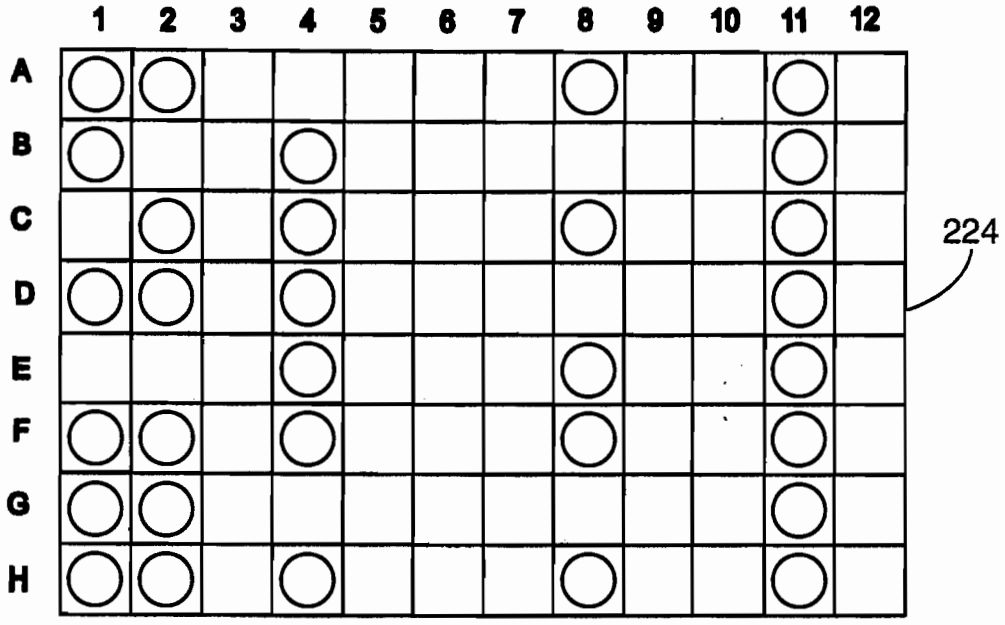


PLATE 1

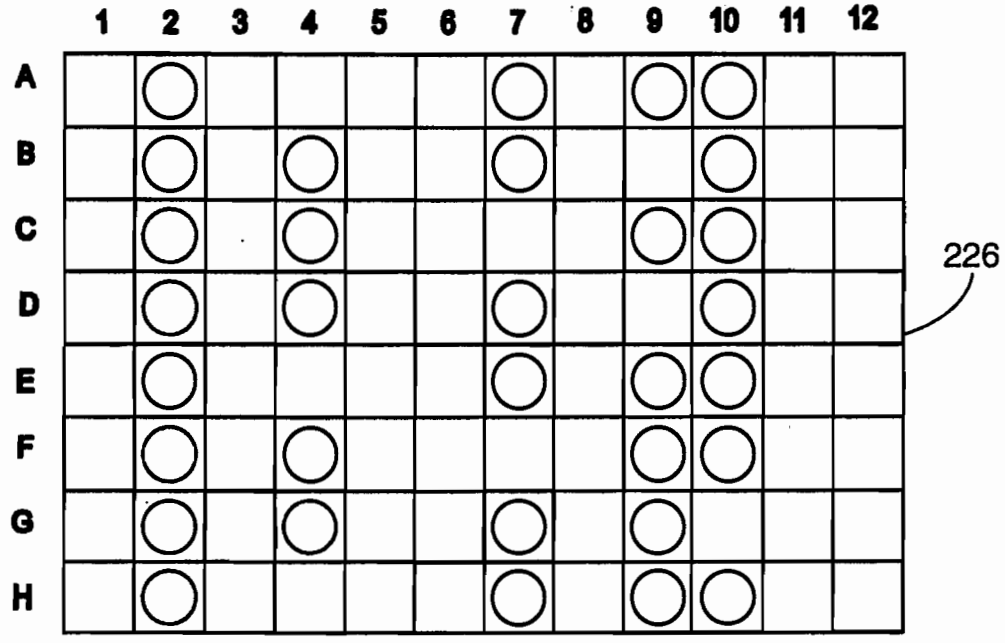


PLATE 2

FIGURE 12

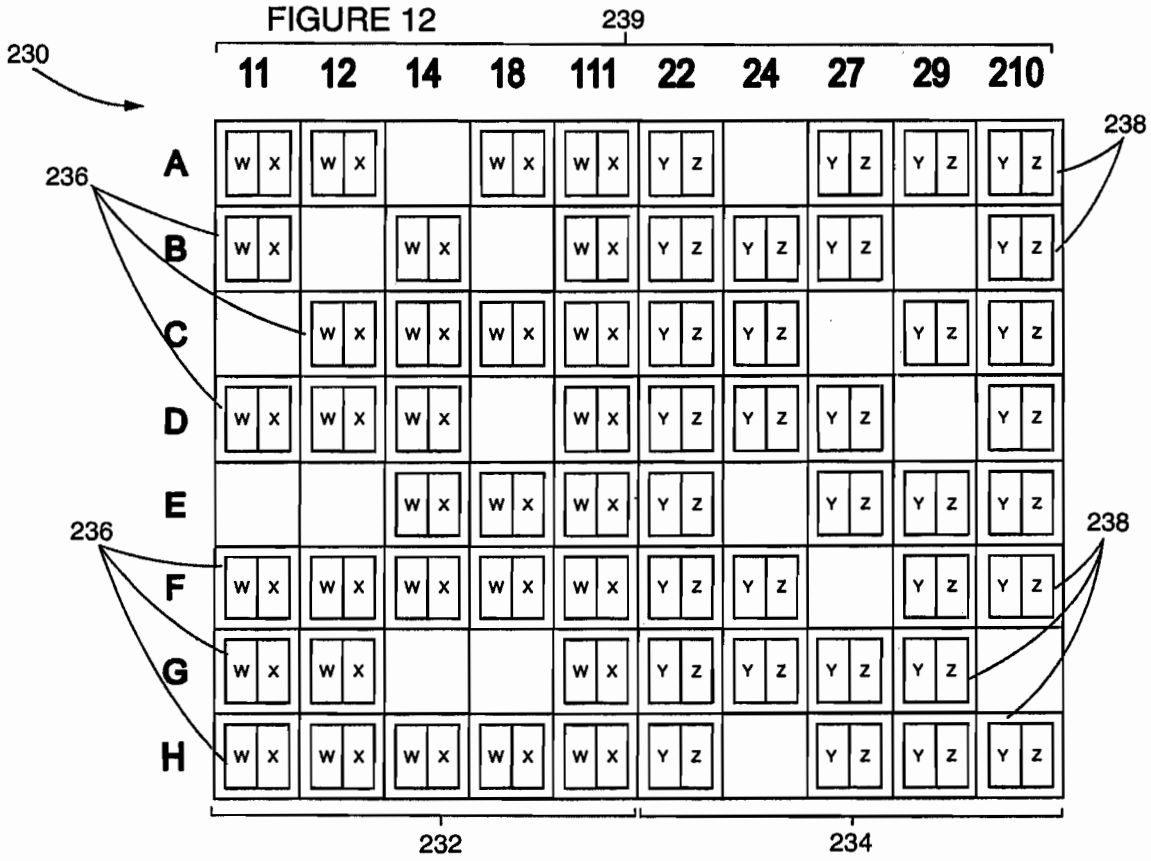

239
230
11
12
14
18
111
22
24
27
29
210
A
B
C
D
E
F
G
H
W X
Y Z
236
238
232
234

FIGURE 13

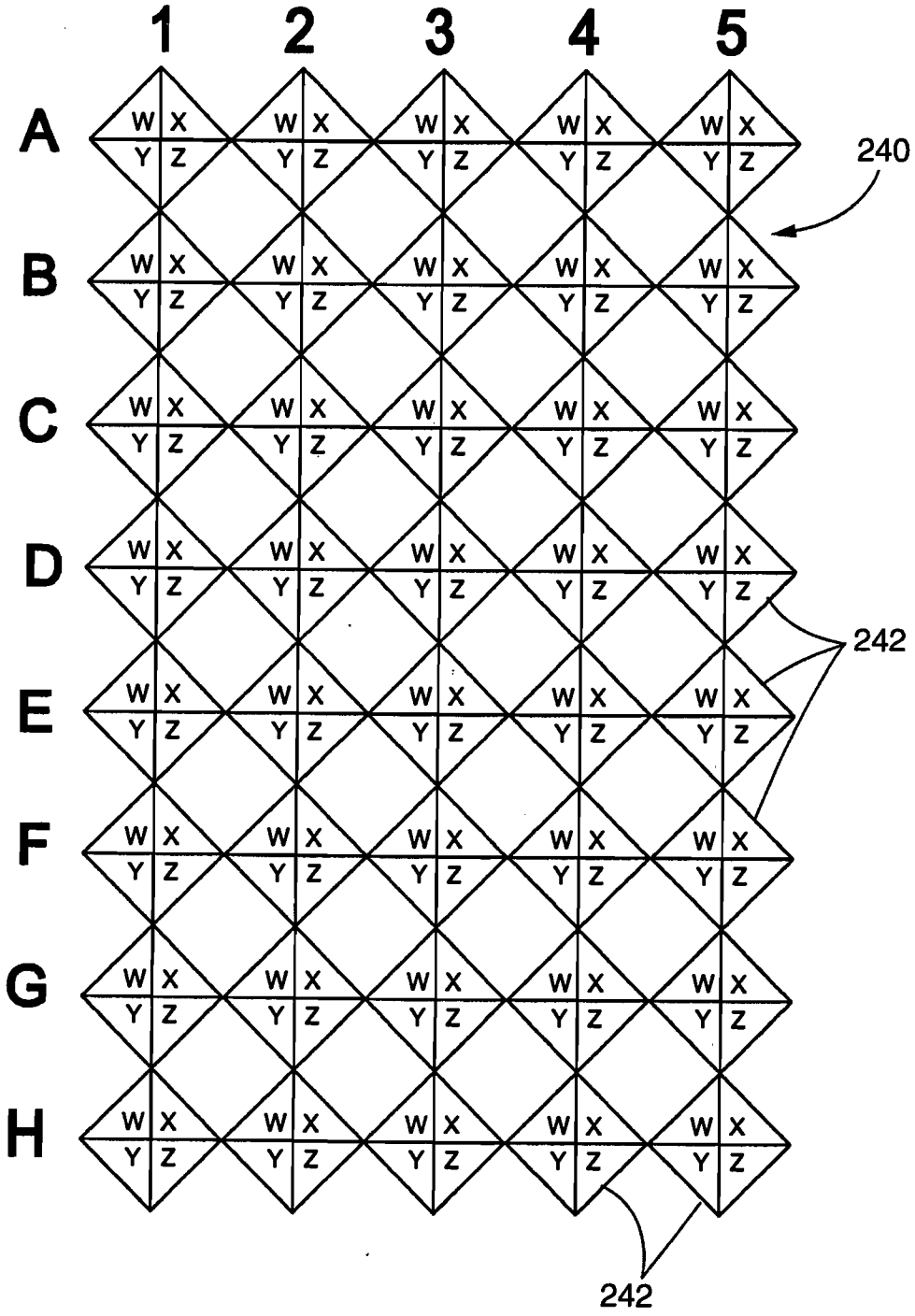


FIGURE 14

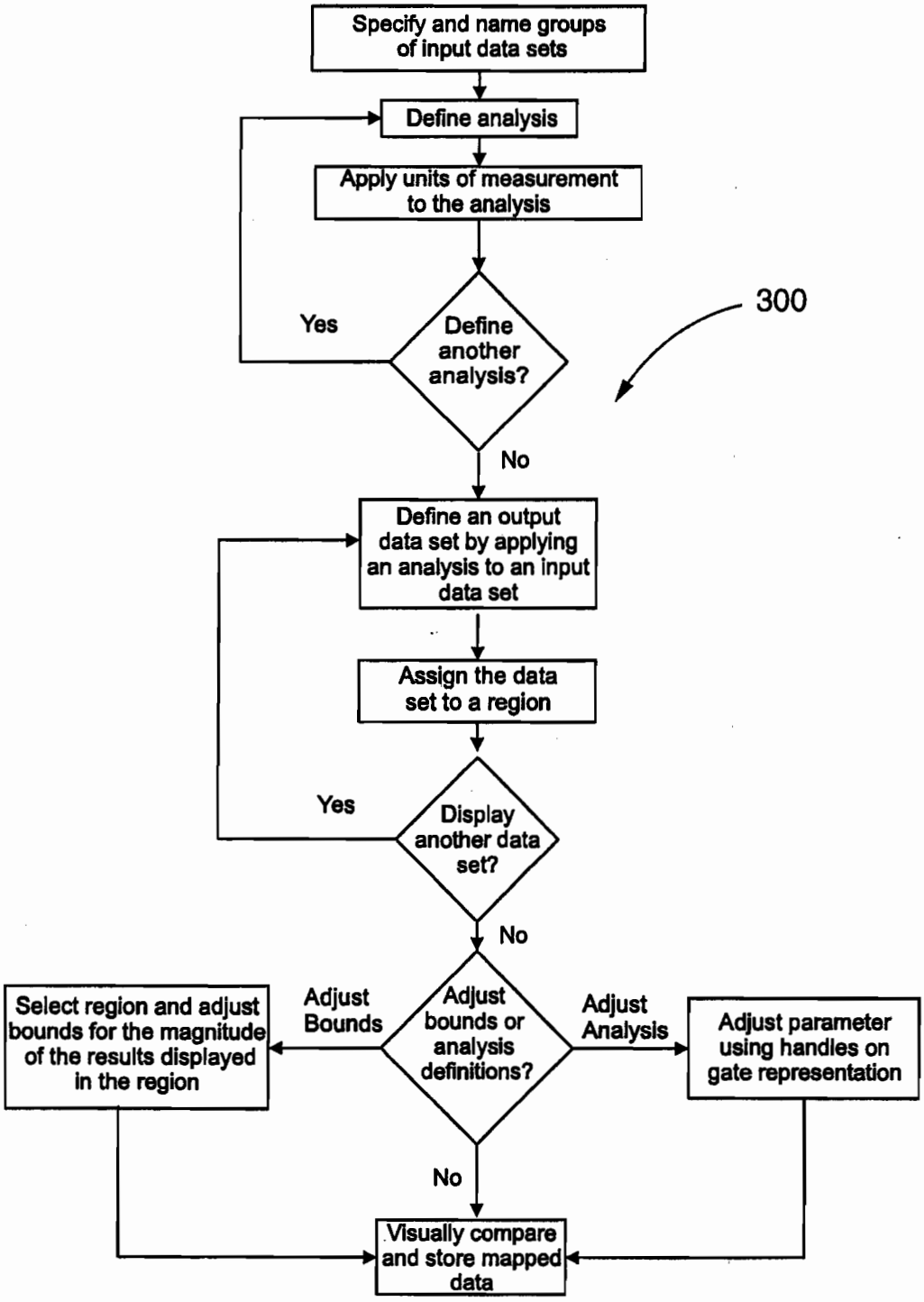

Specify and name groups of input data sets
Define analysis
Apply units of measurement to the analysis
Define another analysis?
Yes
No
300
Define an output data set by applying an analysis to an input data set
Assign the data set to a region
Display another data set?
Yes
No
Adjust bounds or analysis definitions?
Adjust Bounds
Adjust Analysis
Select region and adjust bounds for the magnitude of the results displayed in the region
Adjust parameter using handles on gate representation
No
Visually compare and store mapped data

FIGURE 15

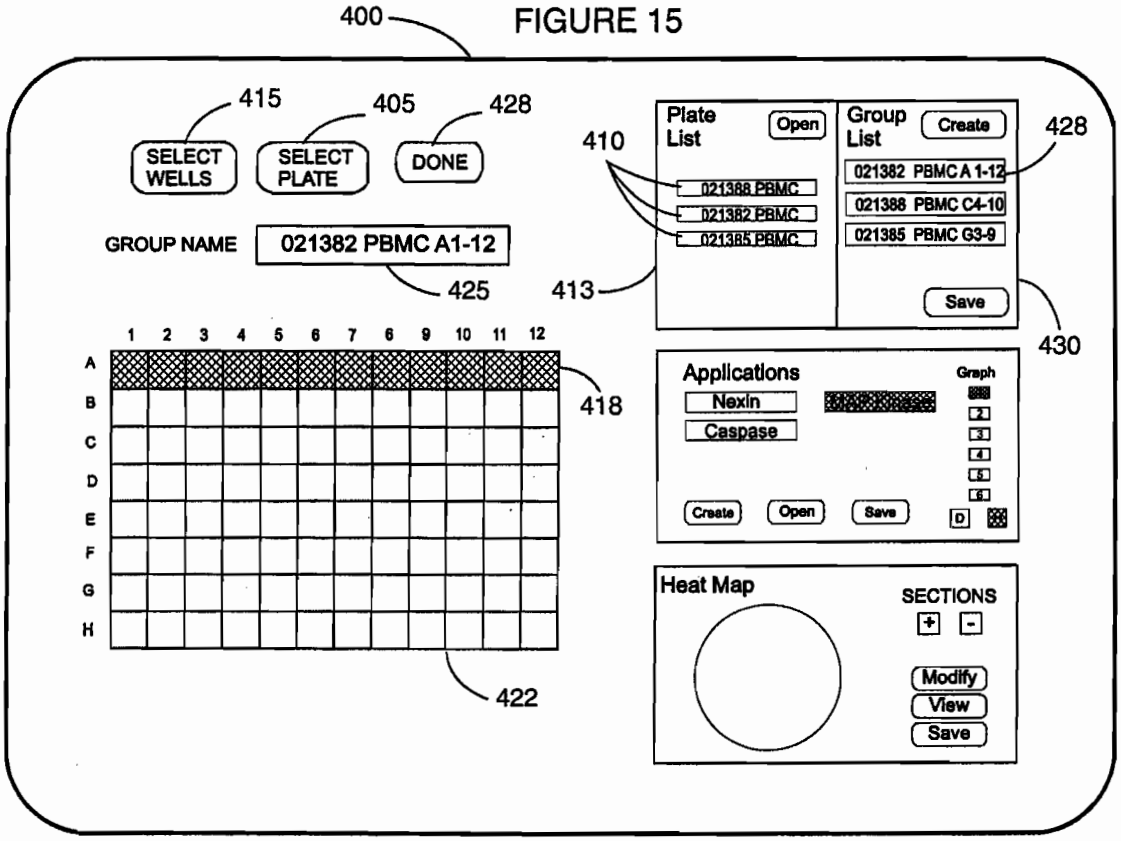

400
415
405
428
SELECT WELLS
SELECT PLATE
DONE
GROUP NAME
021382 PBMC A1-12
425
1 2 3 4 5 6 7 6 9 10 11 12
A
B
C
D
E
F
G
H
418
422
410
413
Plate List
Open
Group List
Create
428
021388 PBMC
021382 PBMC
021385 PBMC
021382 PBMC A 1-12
021388 PBMC C4-10
021385 PBMC G3-9
Save
430
Applications
Graph
Nexin
Caspase
Create
Open
Save
D
Heat Map
SECTIONS
Modify
View
Save

FIGURE 16

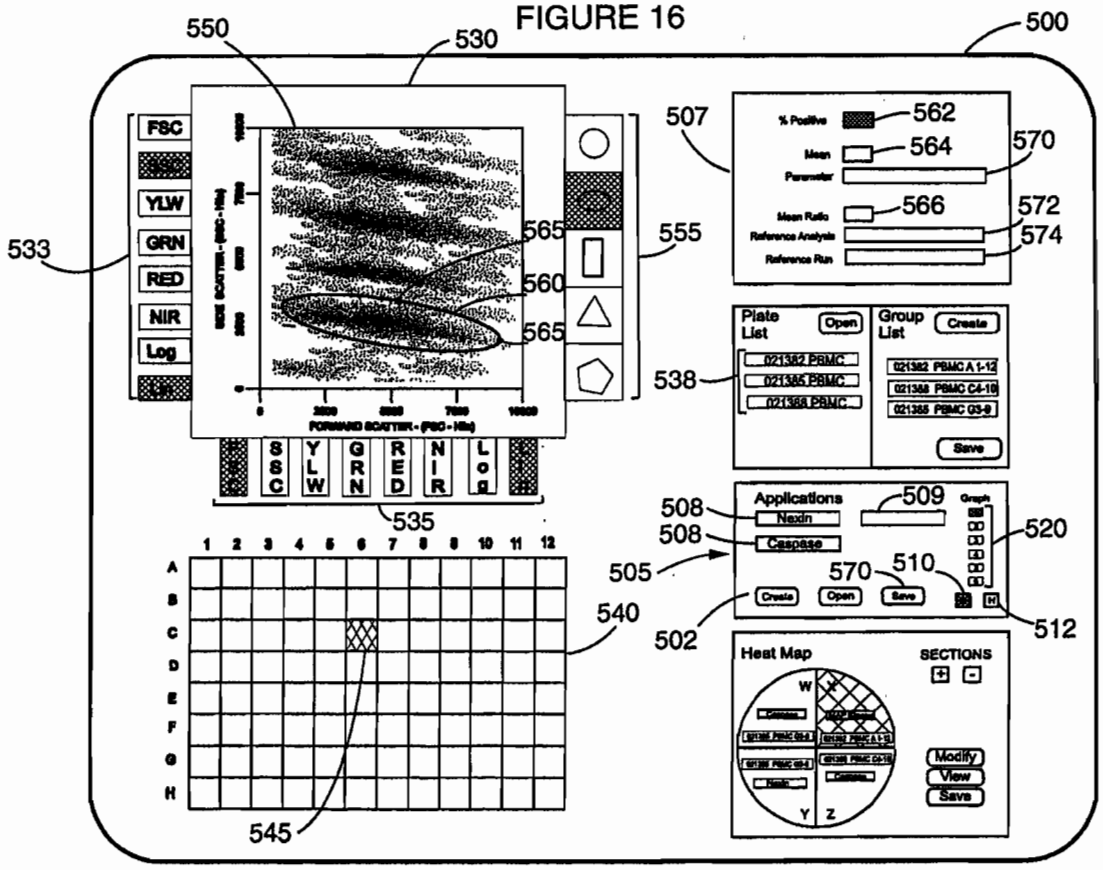

550
530
500
FSC
YLW
GRN
RED
NIR
Log
533
565
560
565
555
507
% Positive
562
Mean
564
570
Parameter
Mean Ratio
566
572
Reference Analysis
574
Reference Run
Plate List
Open
Group List
Create
538
Save
SSC
YLW
GRN
RED
NIR
Log
535
Applications
509
508
Nexin
508
Caspase
520
505
570
510
Create
Open
Save
502
540
512
1 2 3 4 5 6 7 8 9 10 11 12
A
B
C
D
E
F
G
H
545
Heat Map
SECTIONS
W
Y
Z
Modify
View
Save

FIGURE 17

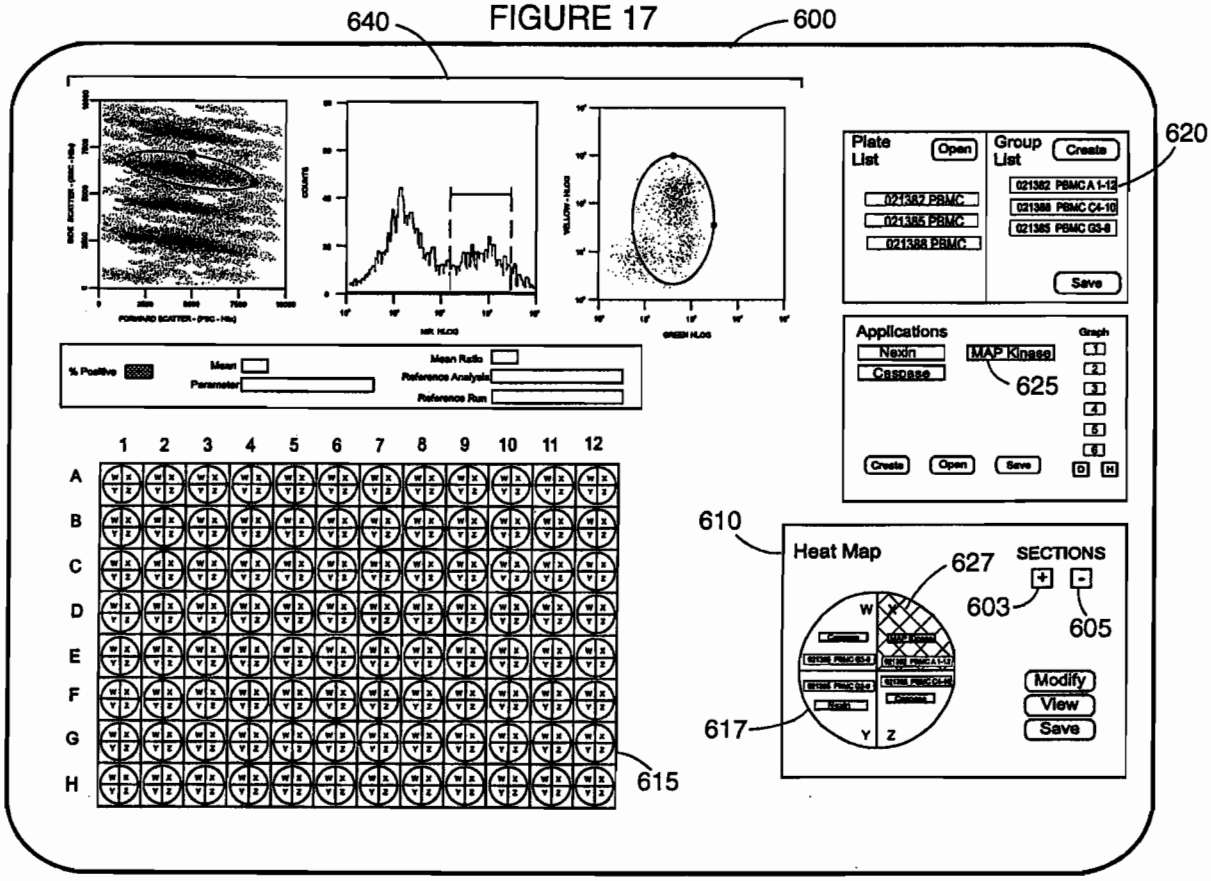
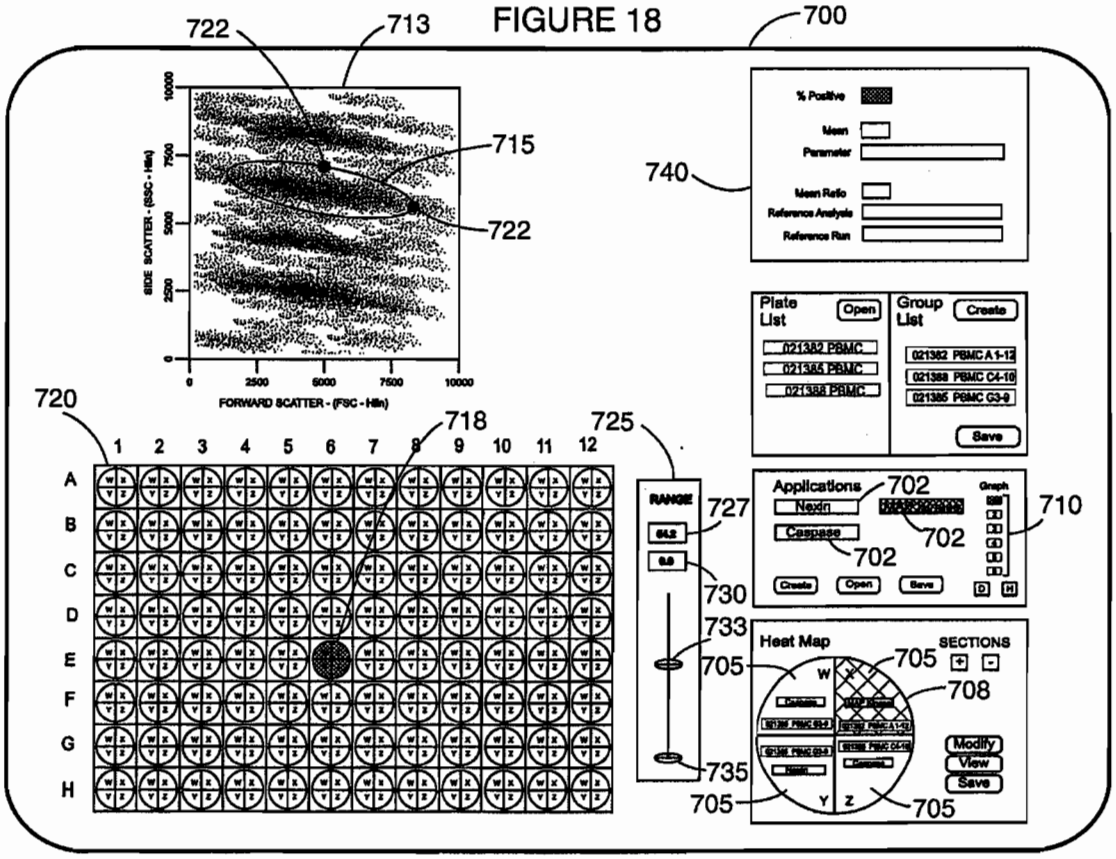

640
600
620
Plate List
Open
Group List
Create
021382 PBMC
021385 PBMC
021388 PBMC
021382 PBMC A 1-12
021386 PBMC C4-10
021385 PBMC G3-9
Save
Applications
Nexin
Caspase
MAP Kinase
625
Graph
Create
Open
Save
% Positive
Mean
Parameter
Mean Ratio
Reference Analysis
Reference Run
1 2 3 4 5 6 7 8 9 10 11 12
A
B
C
D
E
F
G
H
615
610
Heat Map
627
SECTIONS
603
605
617
Modify
View
Save

FIGURE 18


722
713
700
715
722
740
720
718
725
727
730
733
705
735
705
705
708
710
702
702
% Positive
Mean
Parameter
Mean Ratio
Reference Analysis
Reference Run
Plate List
Open
Group List
Create
Save
Applications
Nexin
Caspase
Create
Open
Save
Graph
Heat Map
SECTIONS
Modify
View
Save
RANGE
FORWARD SCATTER - (FSC - Hln)
SIDE SCATTER - (SSC - Hln)