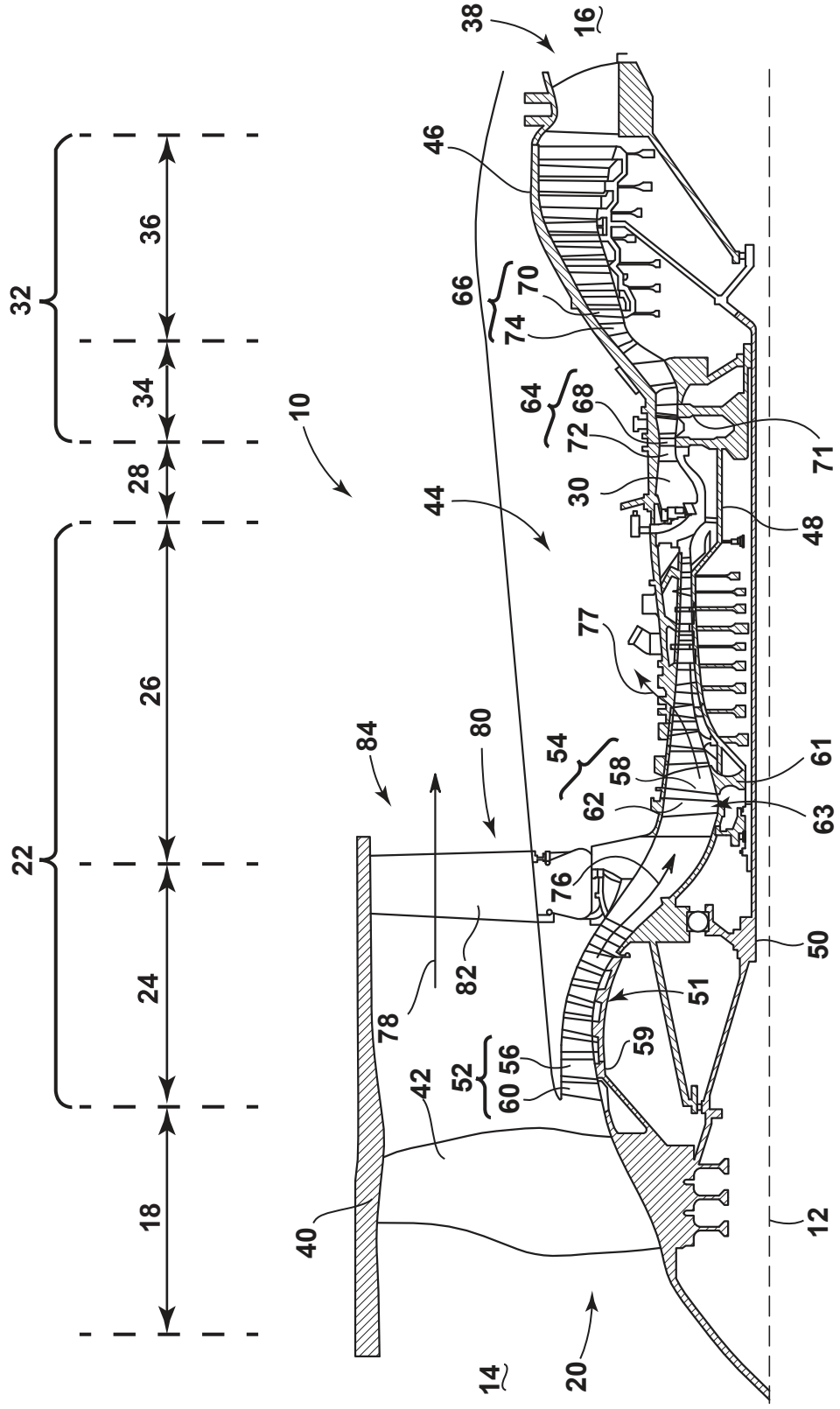

10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
51
52
54
56
58
59
60
61
62
63
64
66
68
70
71
72
74
76
77
78
80
82
84

FIG. 1

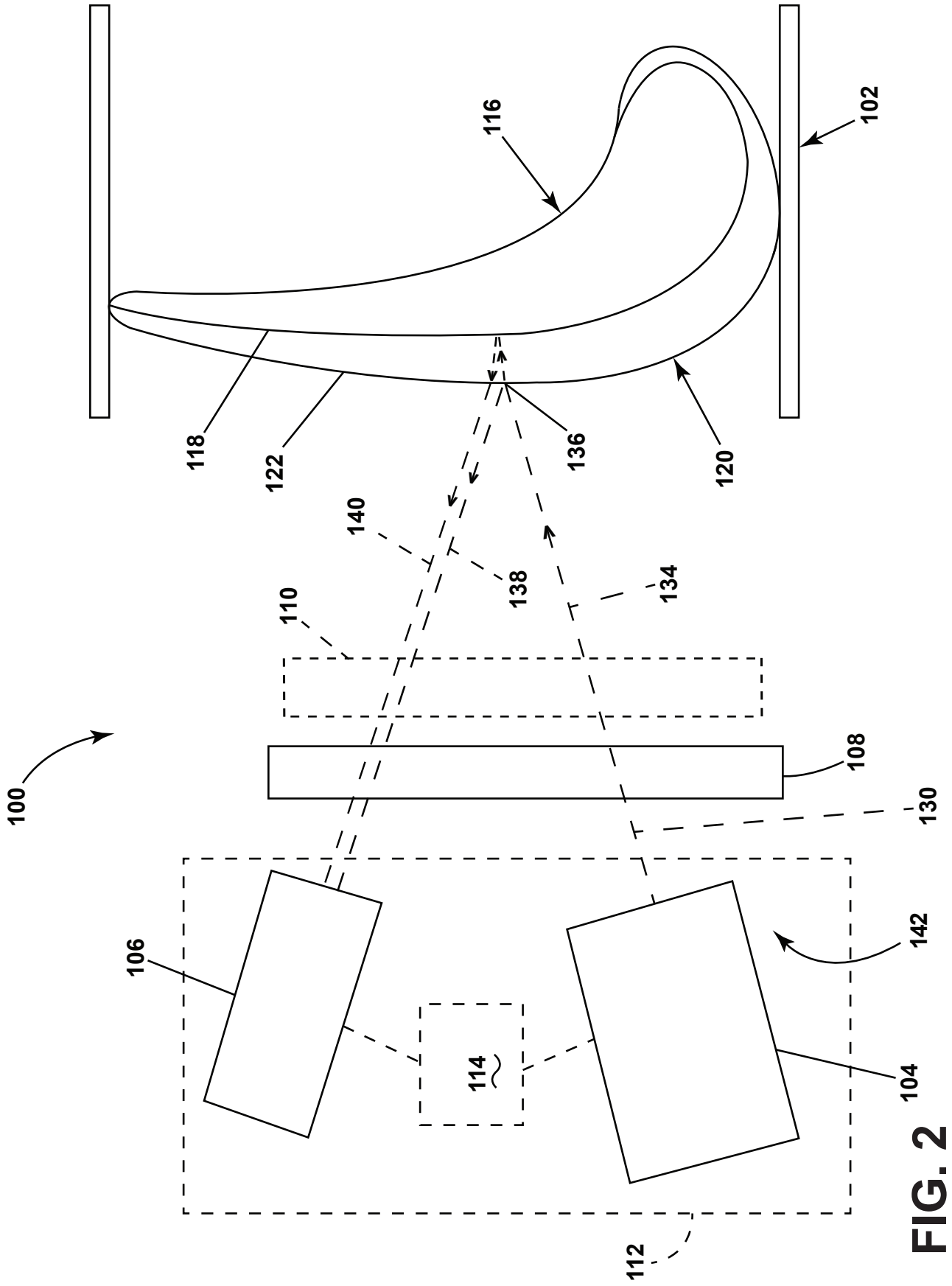

116
102
118
122
136
120
140
138
134
110
108
100
130
106
142
114
104
112

FIG. 2

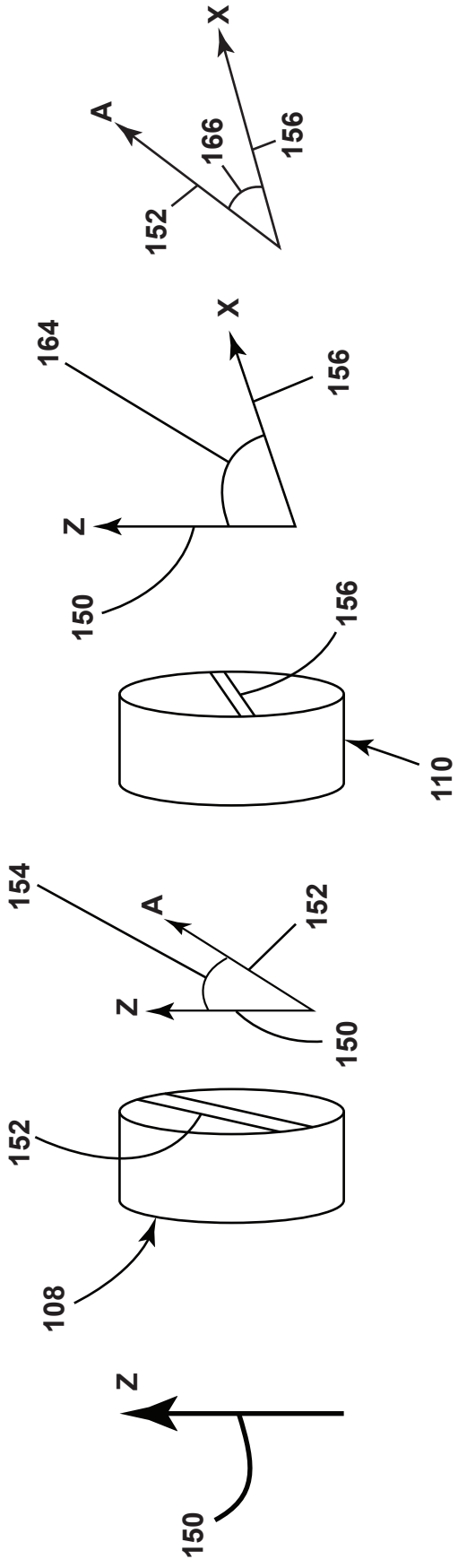

Z
150
108
152
154
A
152
Z
150
110
156
164
X
156
Z
150
A
152
166
156
X

FIG. 3

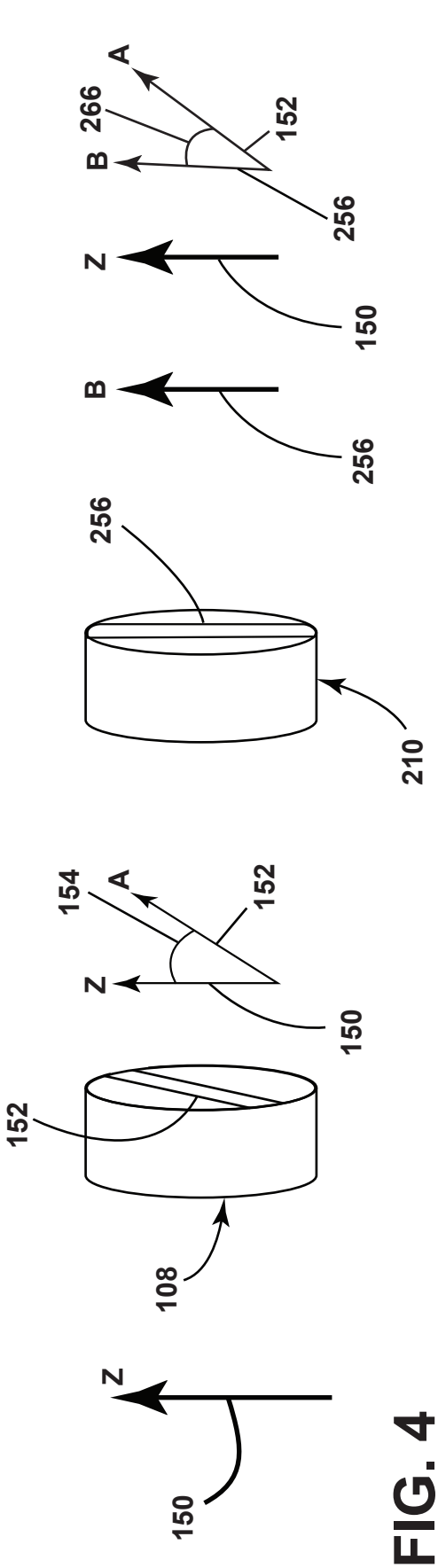

Z
150
108
152
154
A
152
Z
150
210
256
B
256
A
266
B
152
Z
150
256

FIG. 4

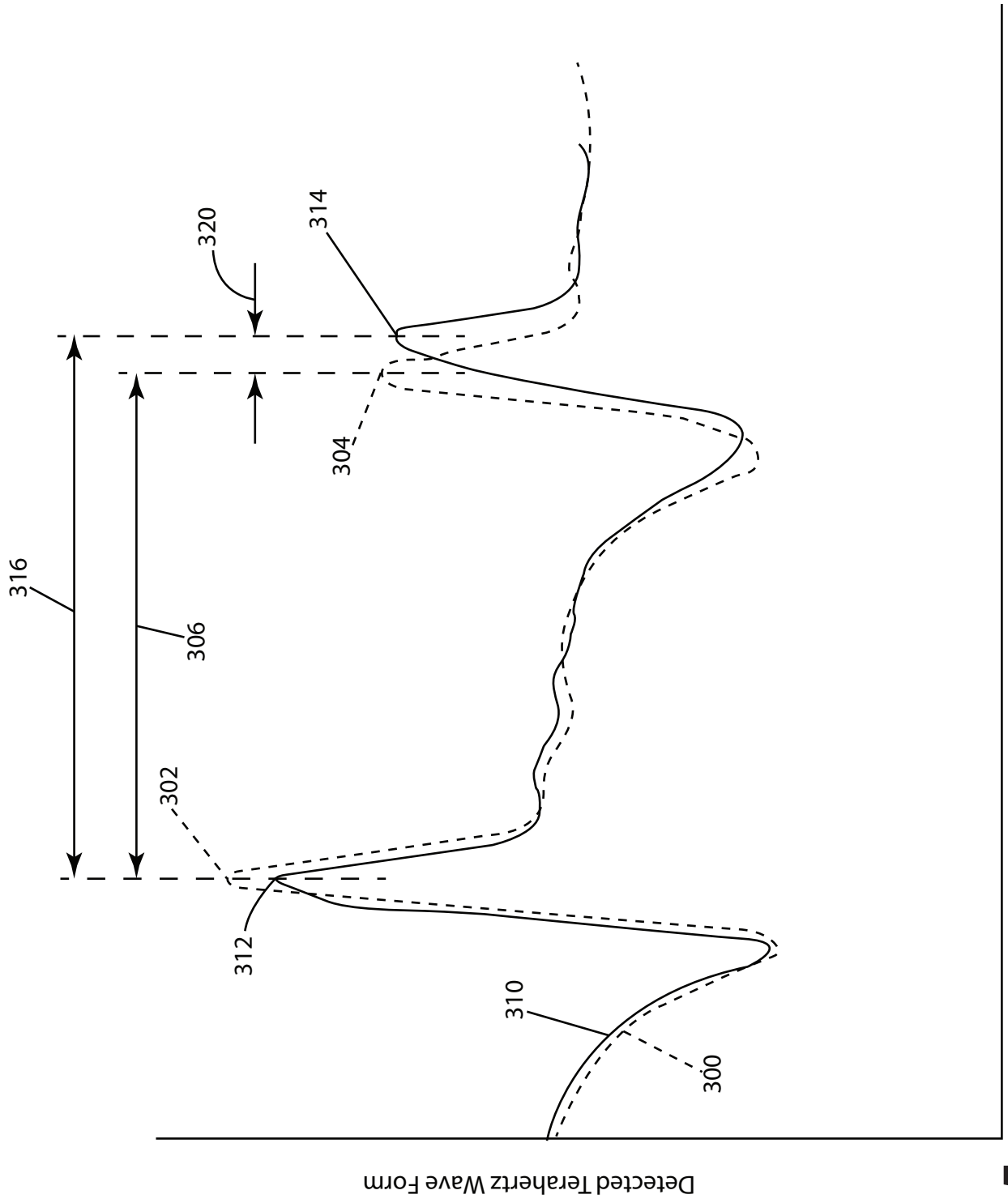

Detected Terahertz Wave Form
Time
316
306
302
320
314
304
312
310
300

FIG. 5

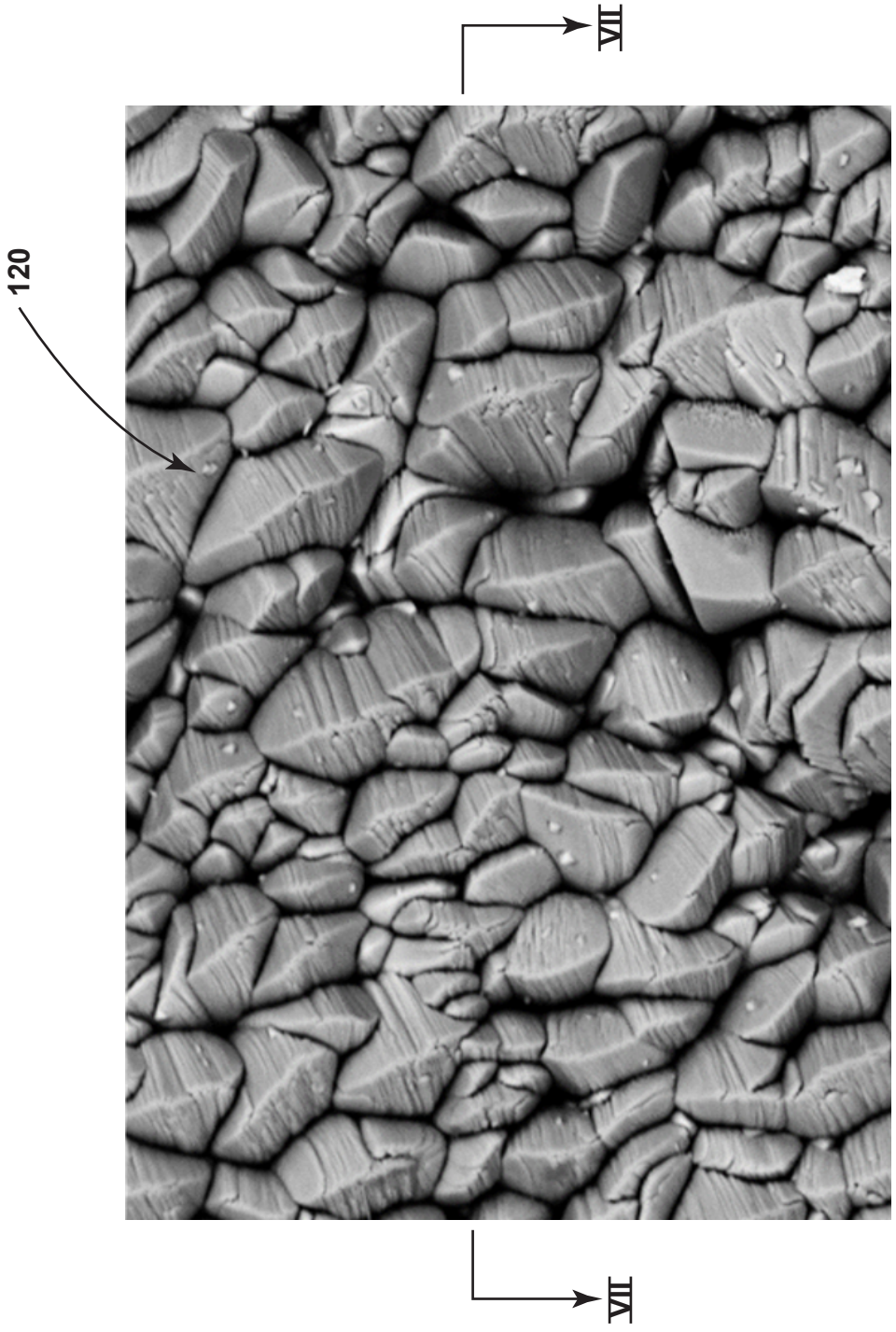


FIG. 6

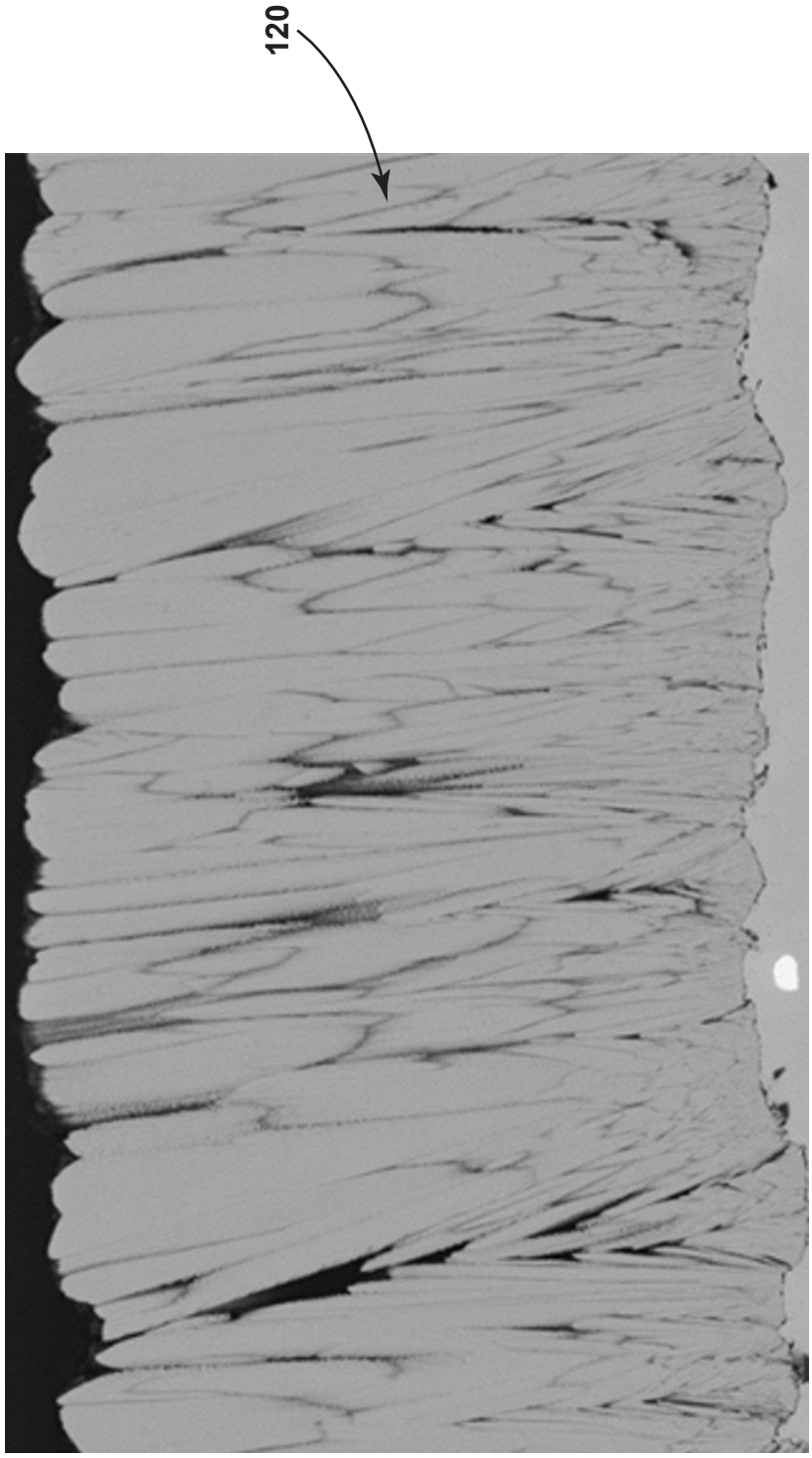


FIG. 7

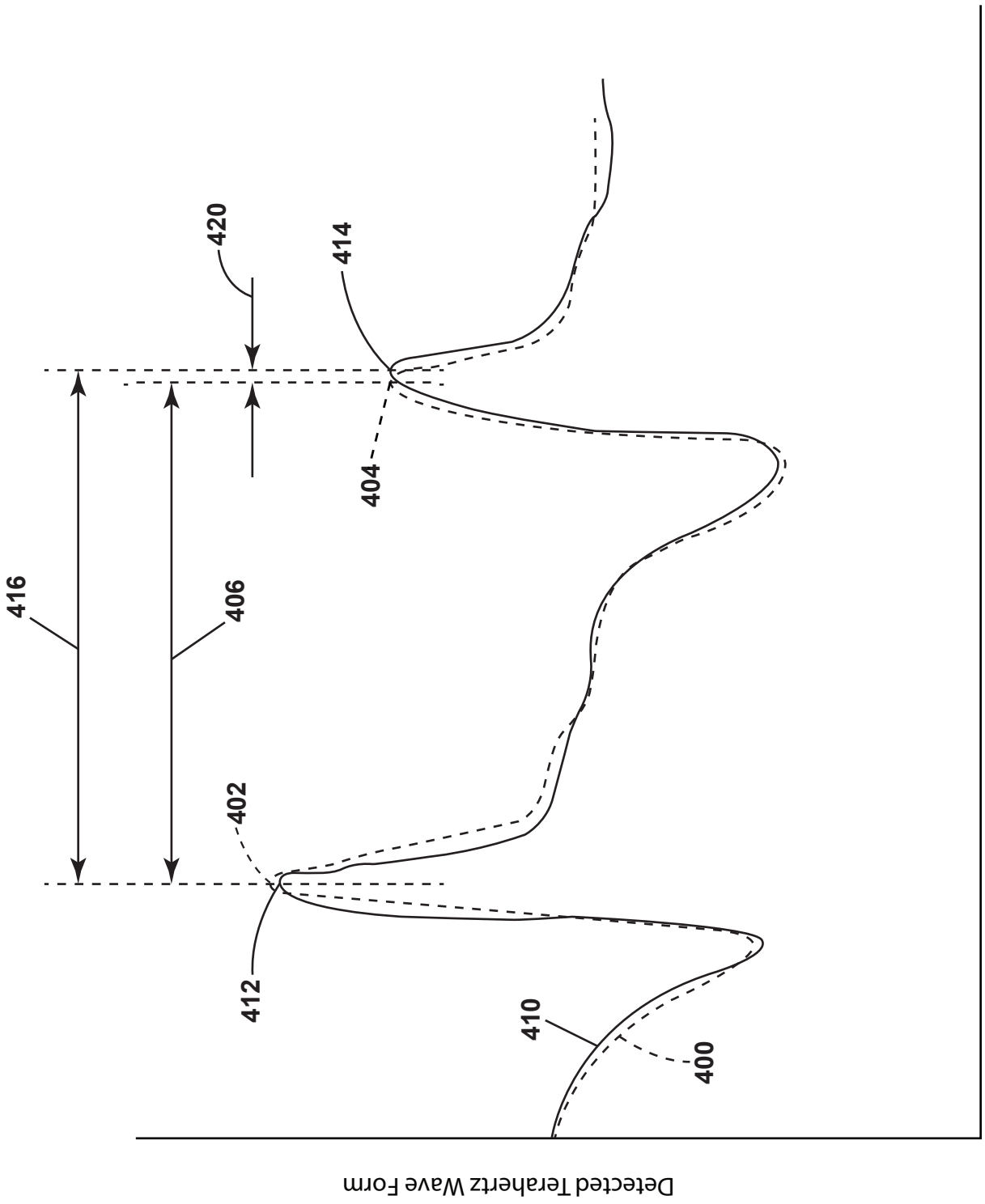

Detected Terahertz Wave Form
Time
400
410
412
402
406
416
404
414
420

FIG. 8

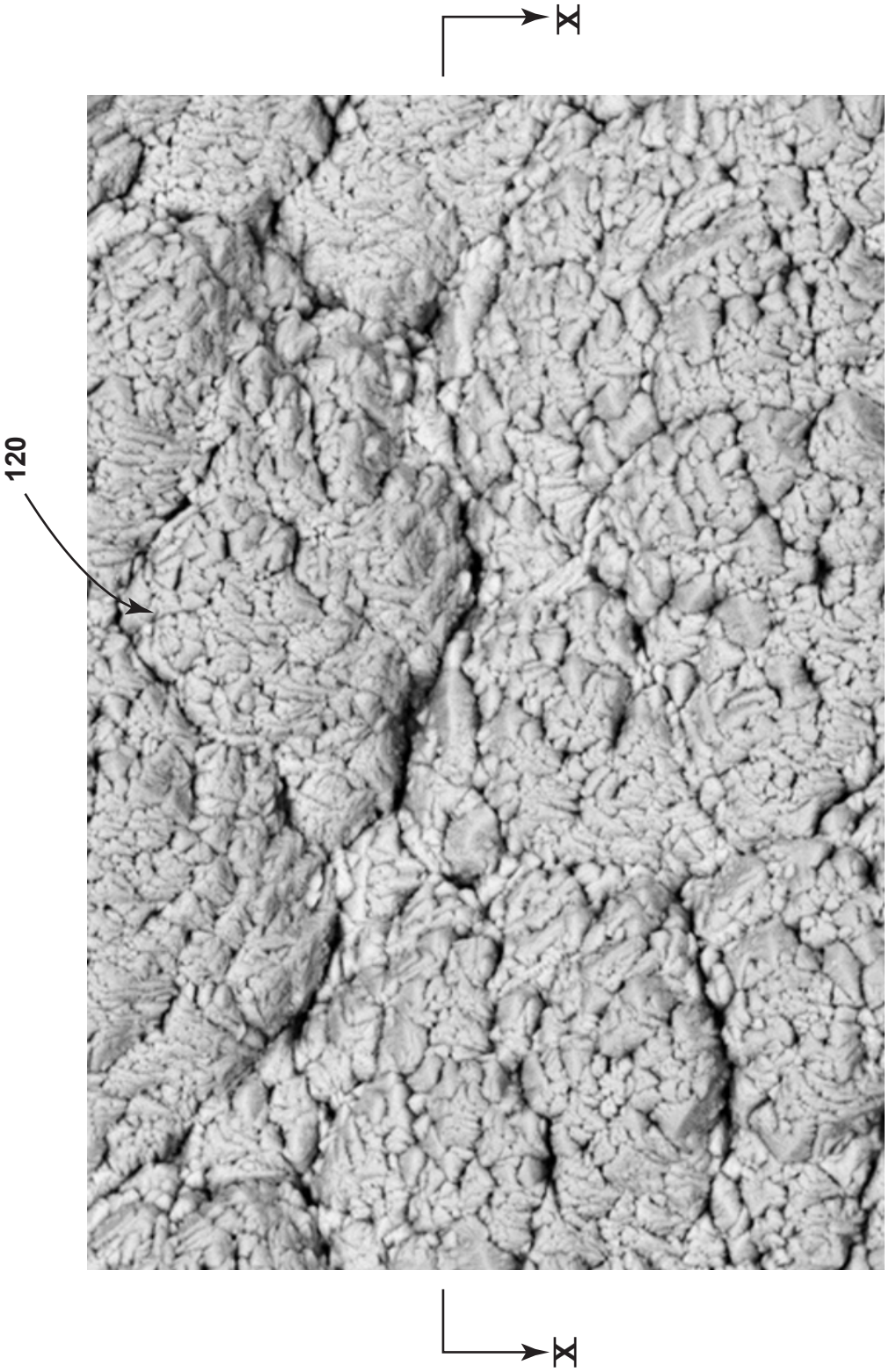


FIG. 9

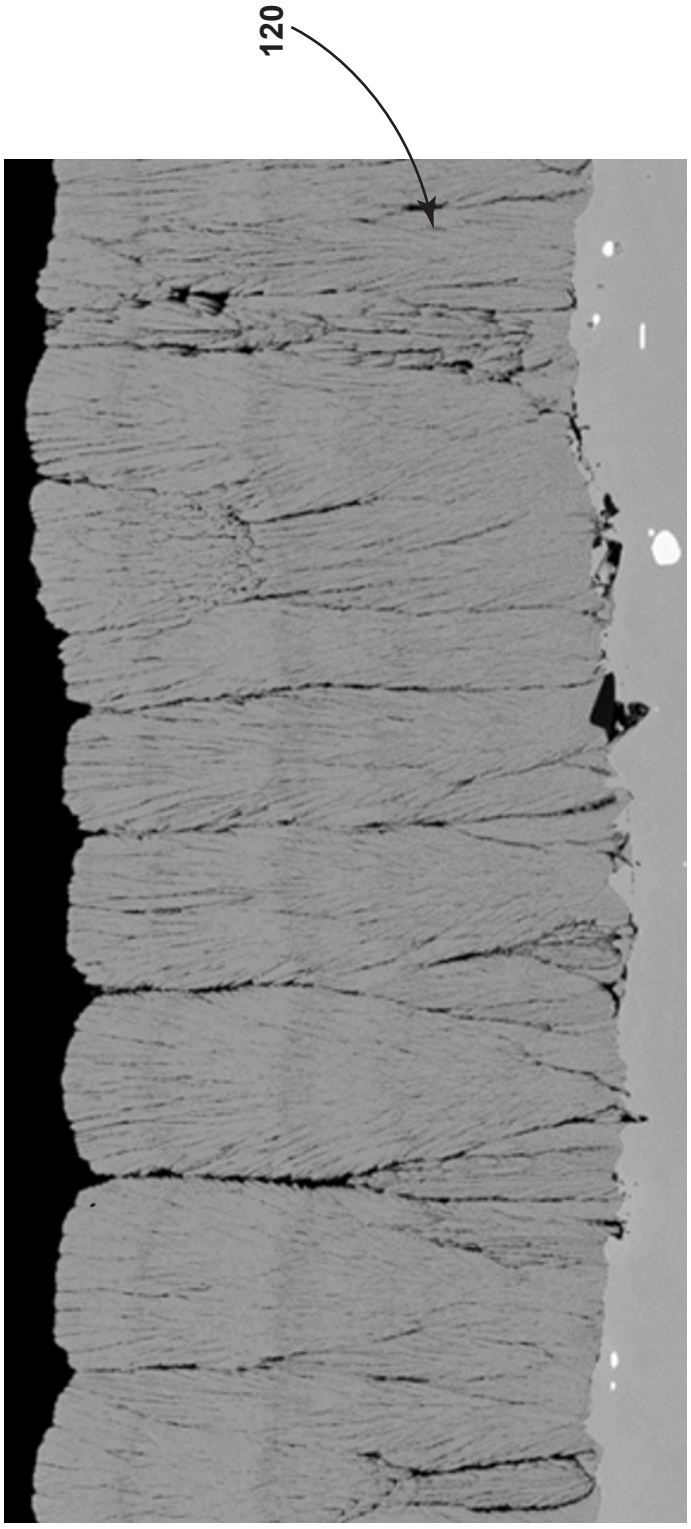


FIG. 10

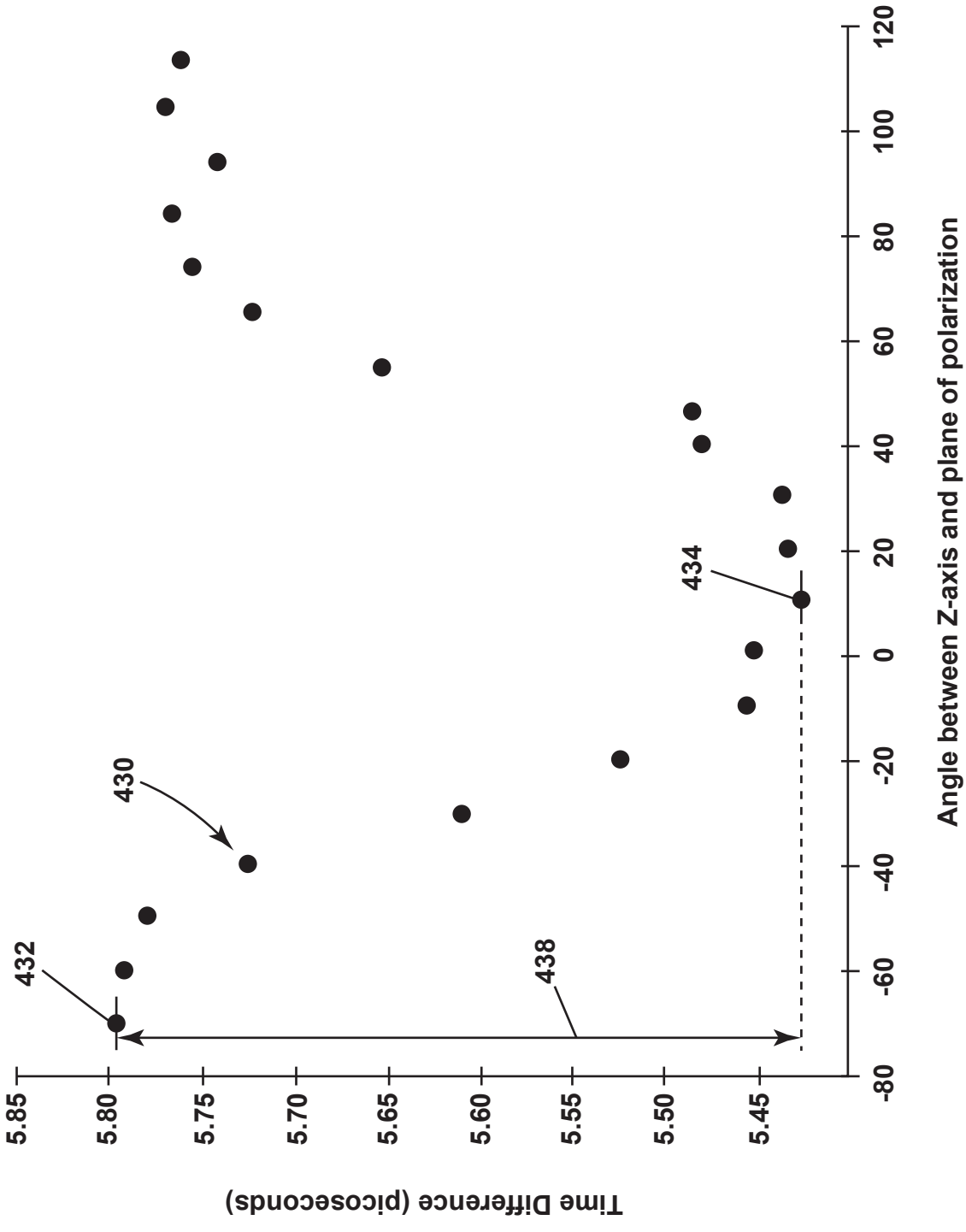

Time Difference (picoseconds)
5.85
5.80
5.75
5.70
5.65
5.60
5.55
5.50
5.45
-80
-60
-40
-20
0
20
40
60
80
100
120
Angle between Z-axis and plane of polarization
432
430
438
434

FIG. 11

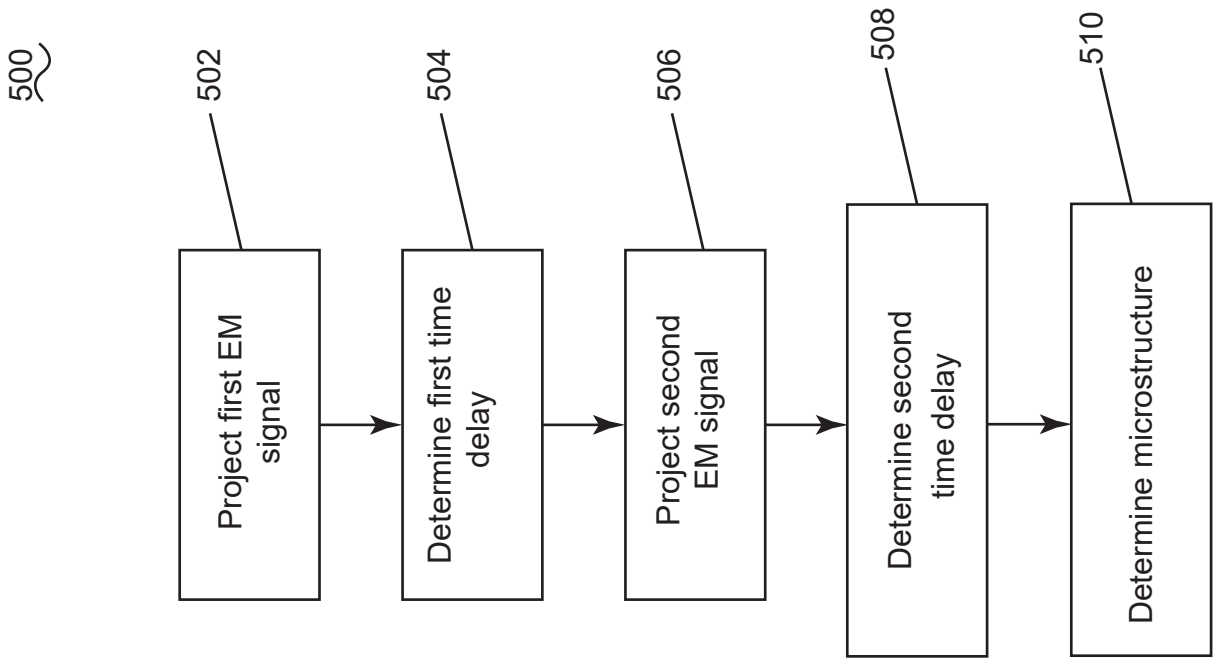

500
502
Project first EM signal
504
Determine first time delay
506
Project second EM signal
508
Determine second time delay
510
Determine microstructure

FIG. 12

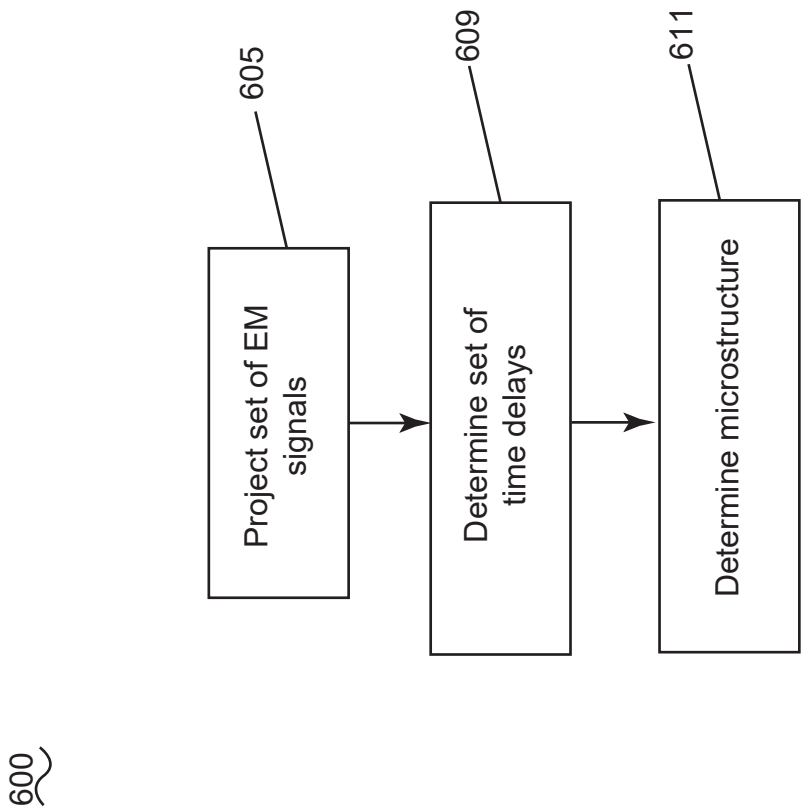

600
605
Project set of EM signals
609
Determine set of time delays
611
Determine microstructure

FIG. 13