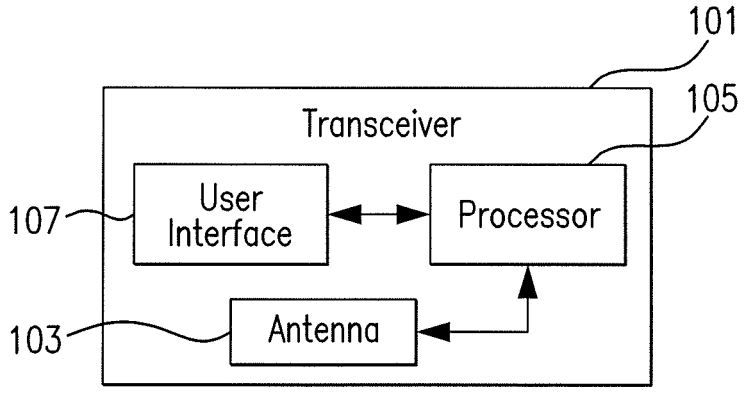

101
105
Transceiver
User Interface
Processor
107
103
Antenna

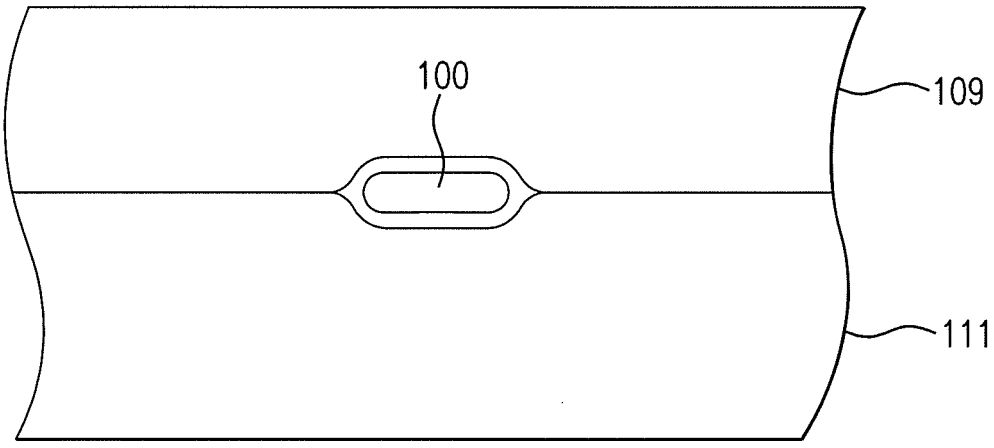

100
109
111

FIG. 1

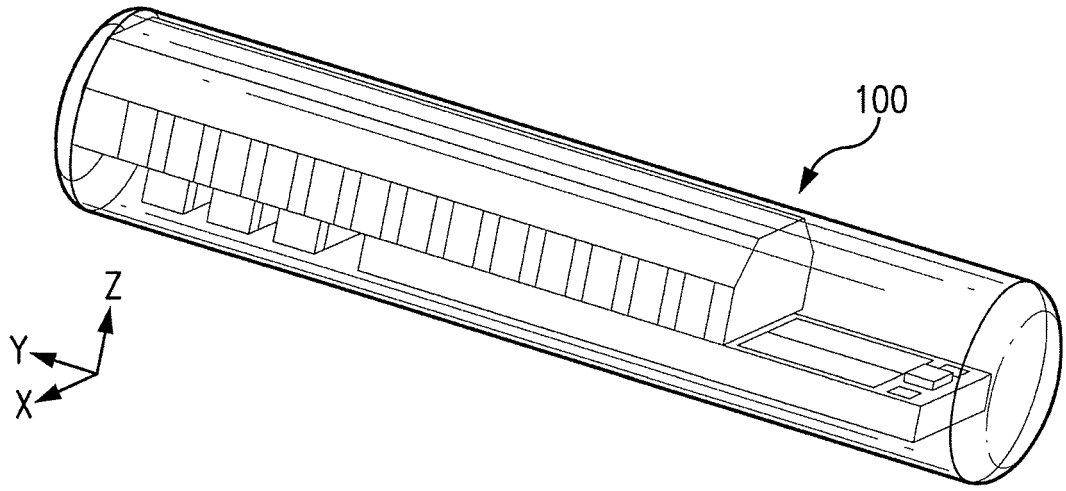


FIG. 2

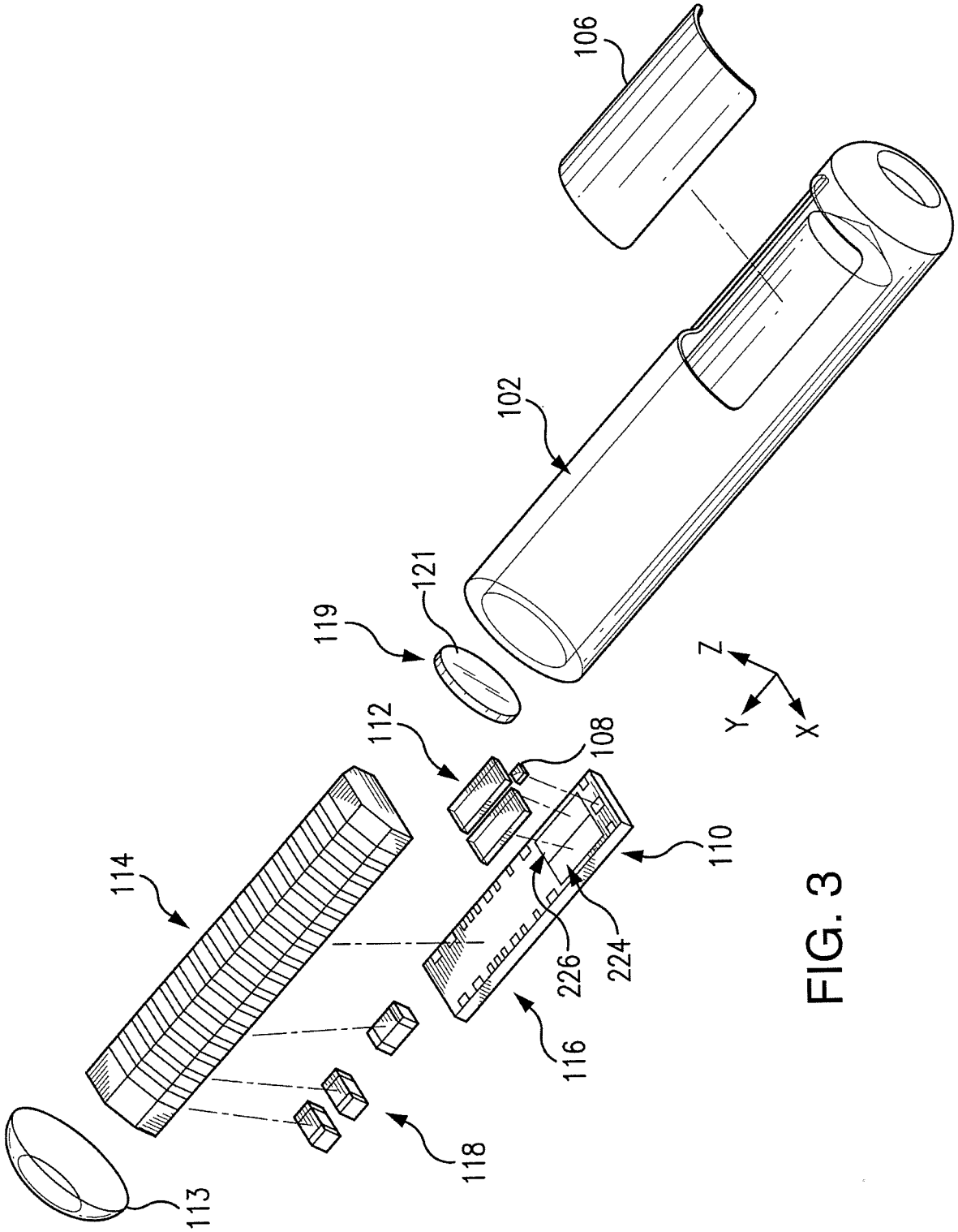


FIG. 3

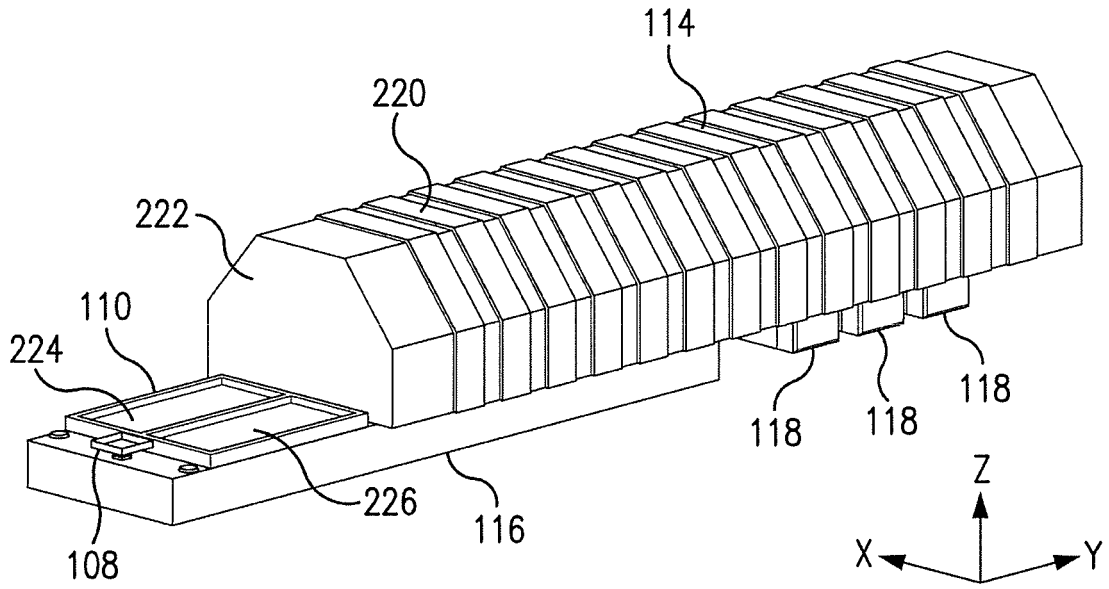

114
220
222
110
224
118
118
118
226
116
108
Z
X
Y

FIG. 4

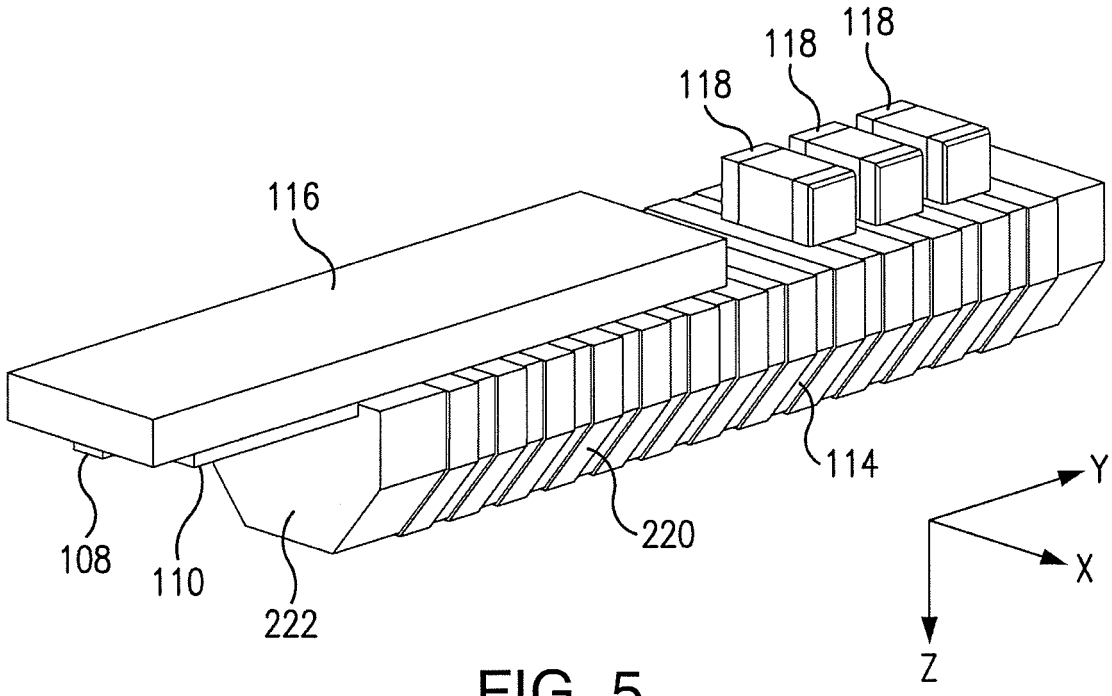

118
118
118
116
114
108
110
222
220
Y
X
Z

FIG. 5

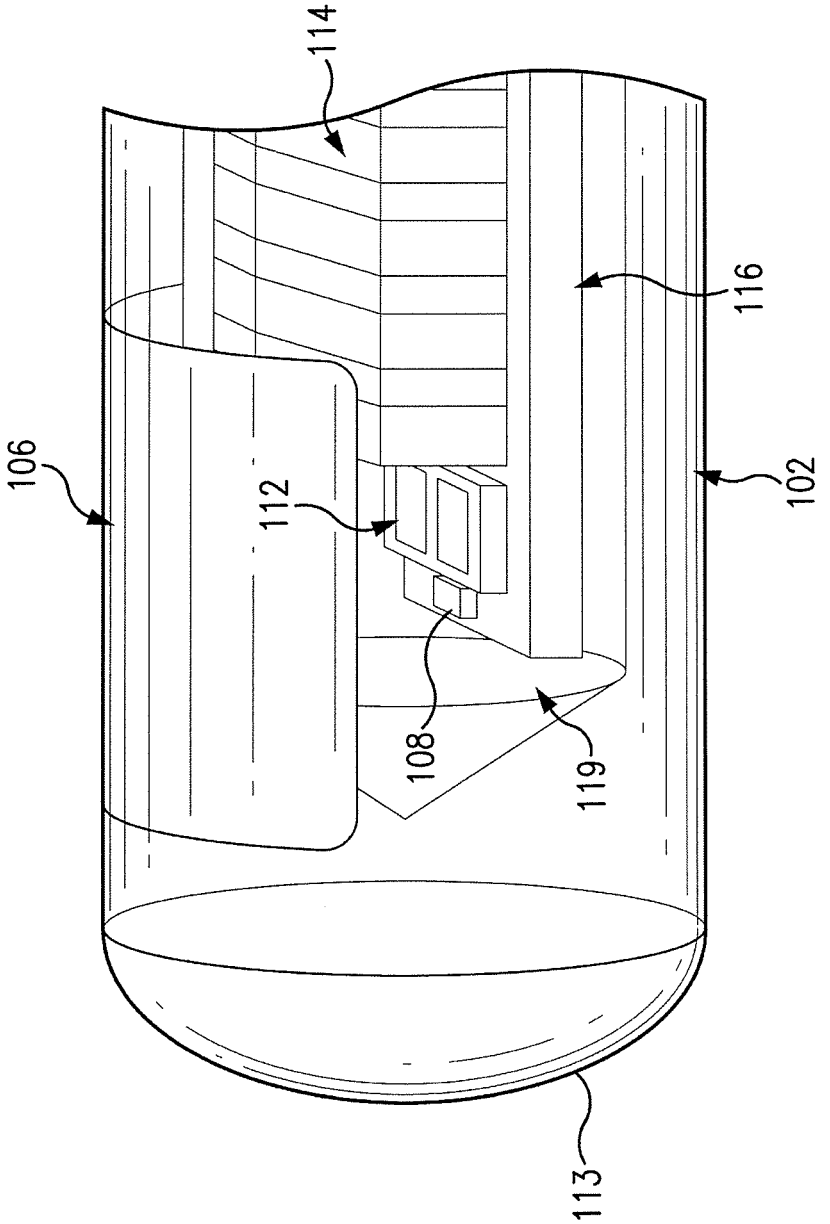


FIG. 6

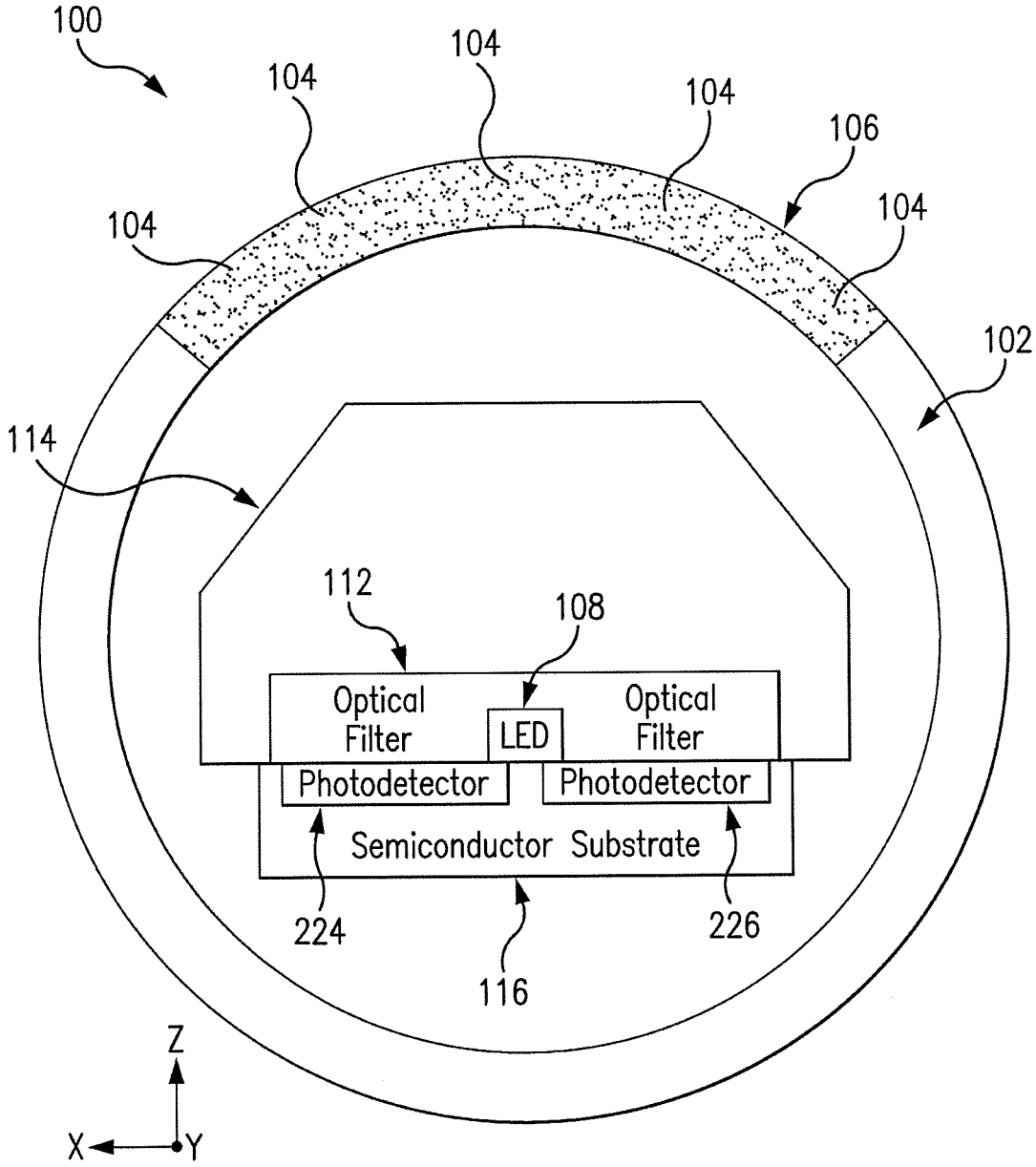

100
104
104
104
106
104
104
102
114
112
108
Optical Filter
LED
Optical Filter
Photodetector
Photodetector
Semiconductor Substrate
224
226
116
Z
X
Y

FIG. 7

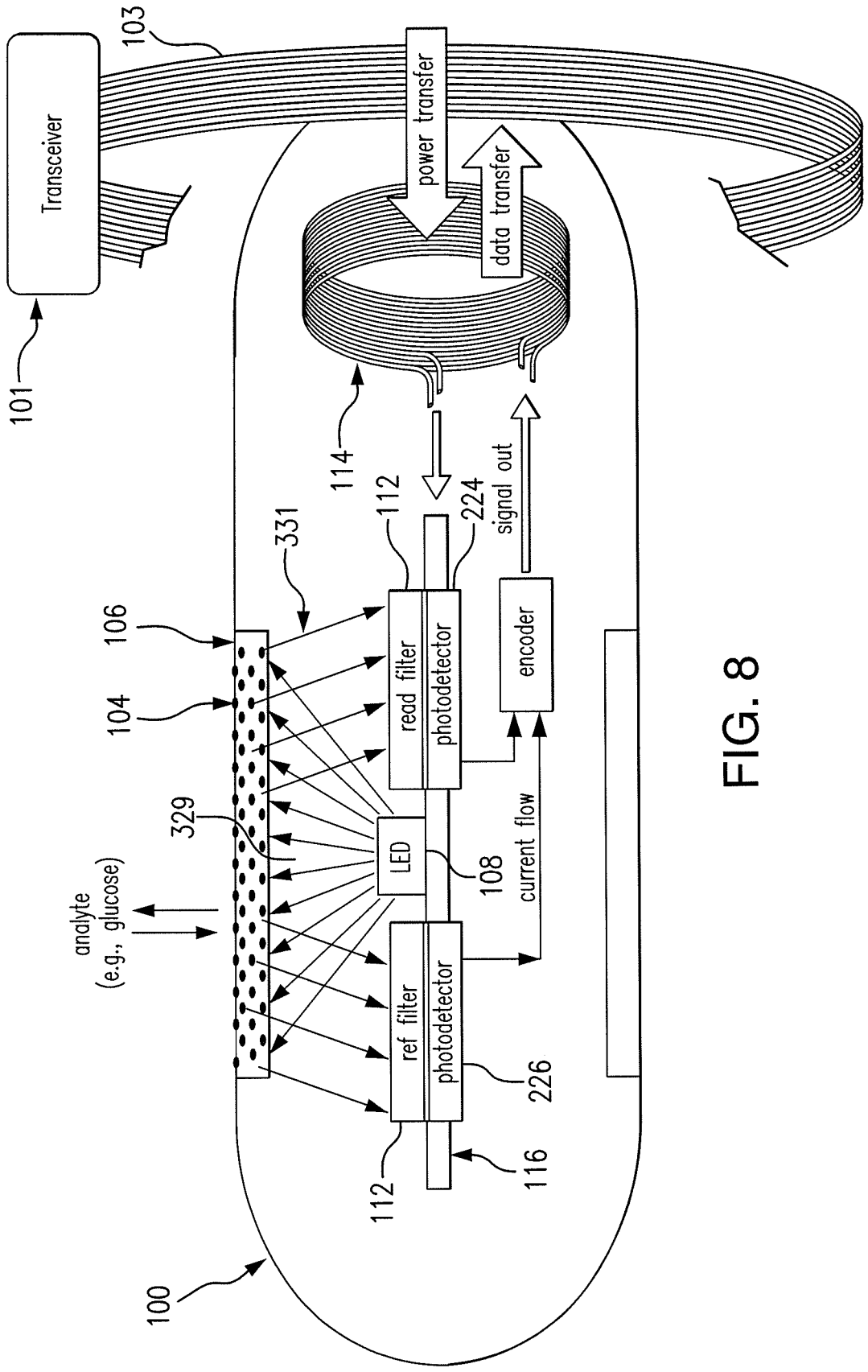

Transceiver
103
power transfer
data transfer
101
114
112
224
signal out
331
106
104
read filter
photodetector
encoder
329
LED
108
current flow
analyte
(e.g., glucose)
ref filter
photodetector
226
112
116
100

FIG. 8

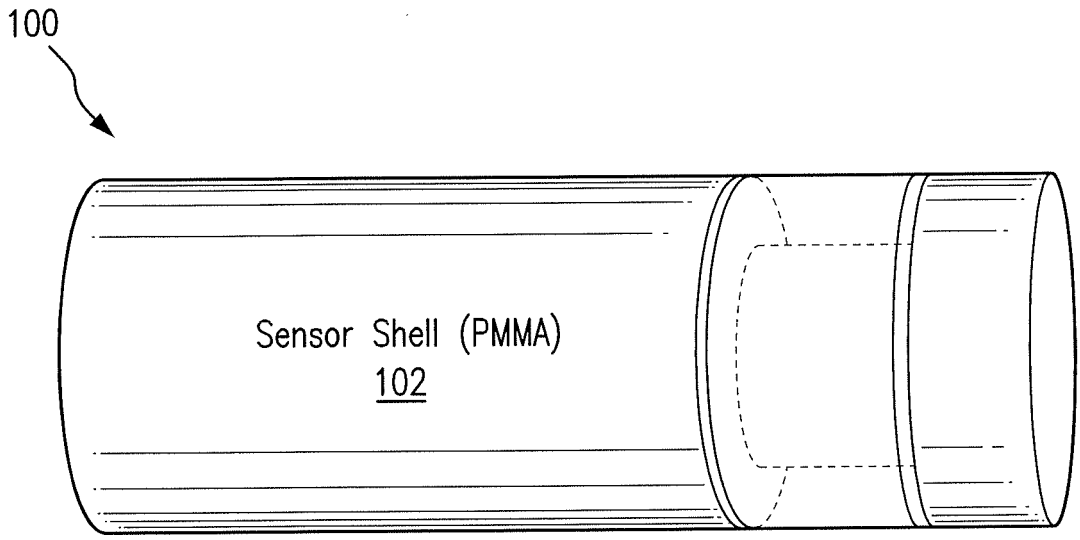


FIG. 9

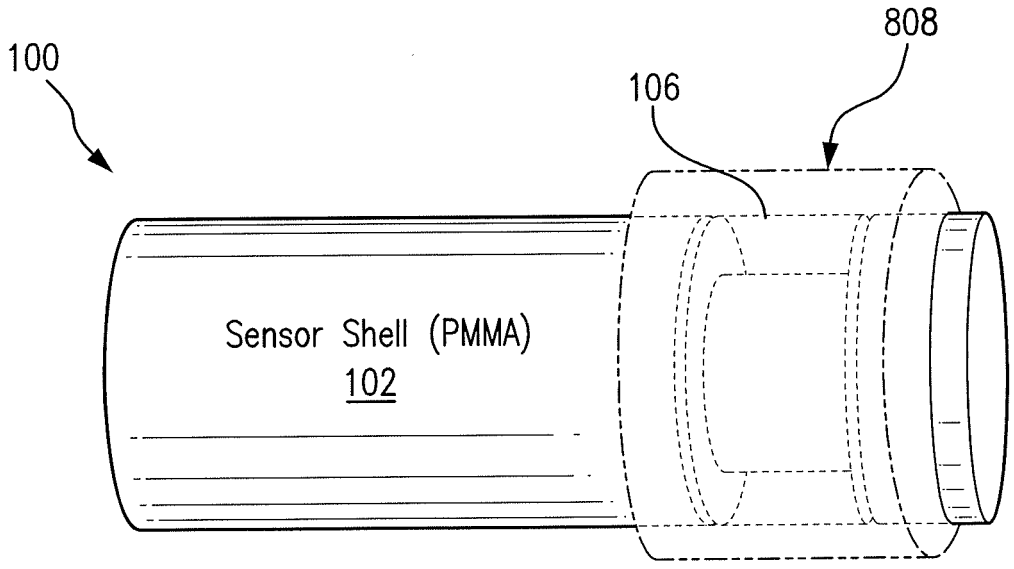


FIG. 10

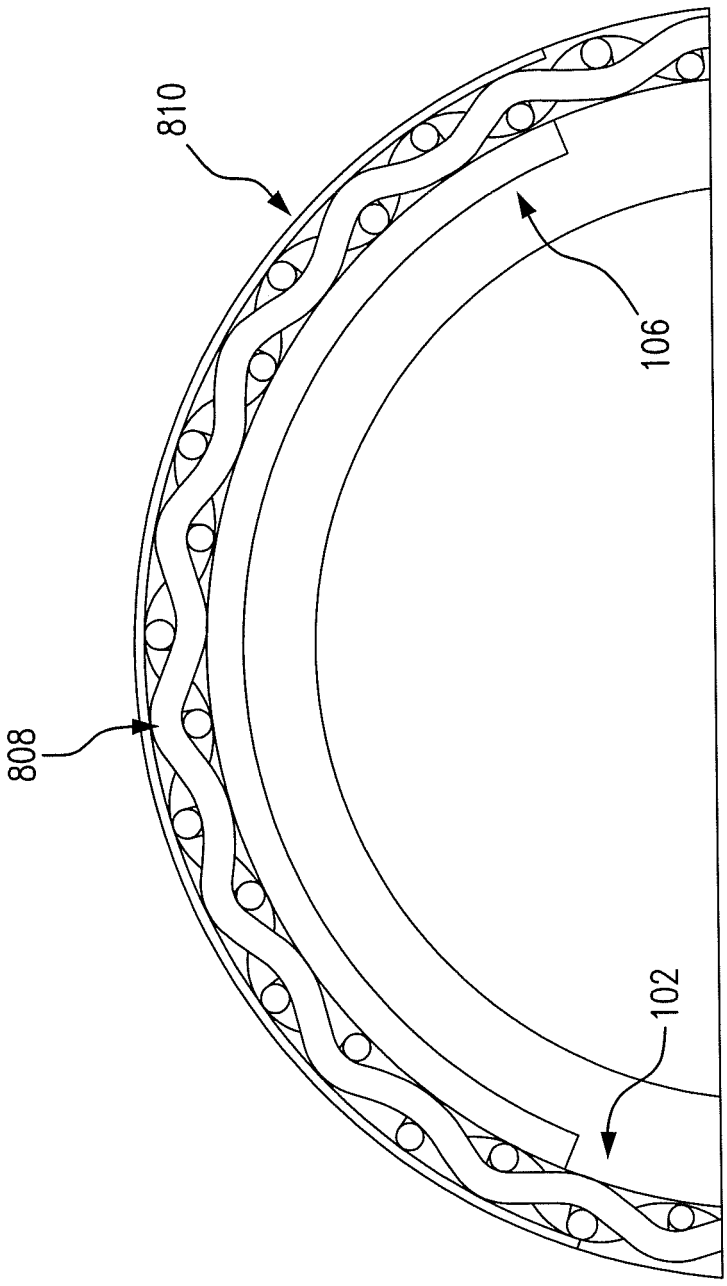


FIG. 11

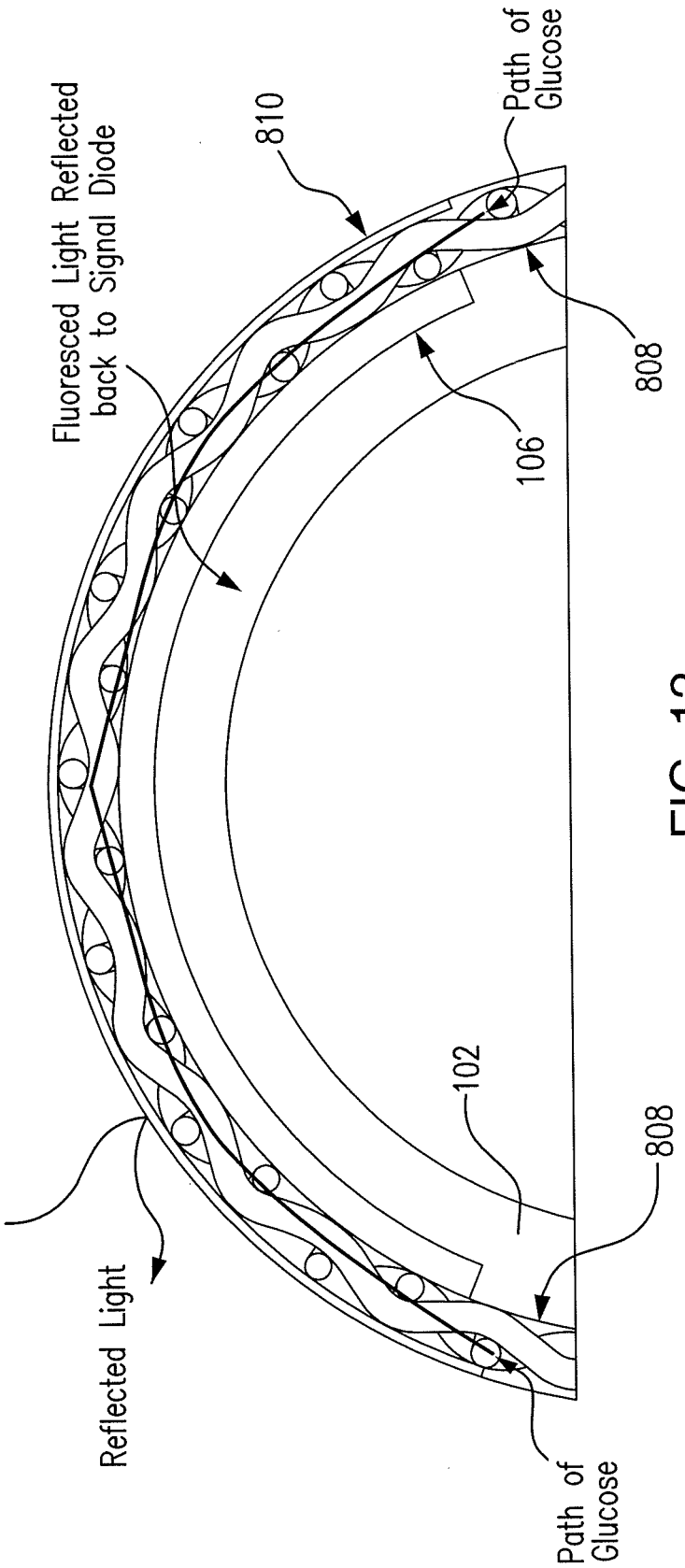

Fluoresced Light Reflected back to Signal Diode
810
Path of Glucose
808
106
102
808
Reflected Light
Path of Glucose

FIG. 12

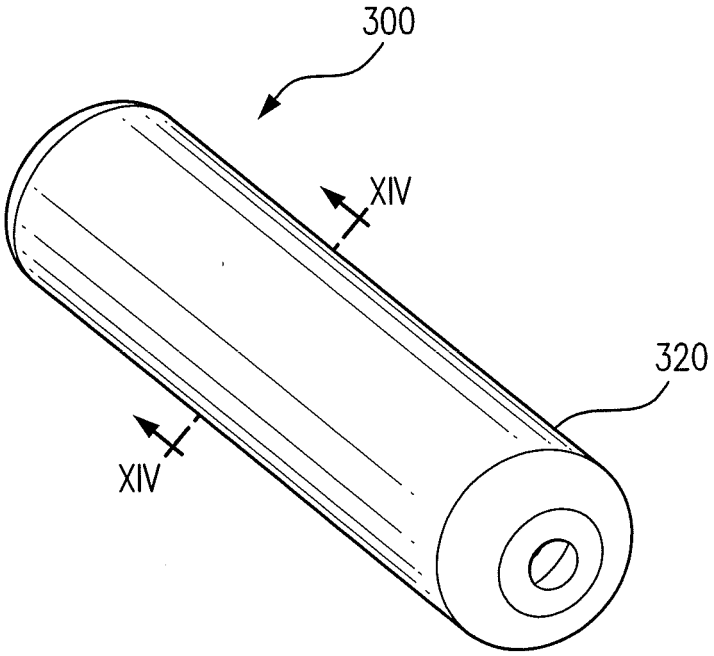


FIG. 13

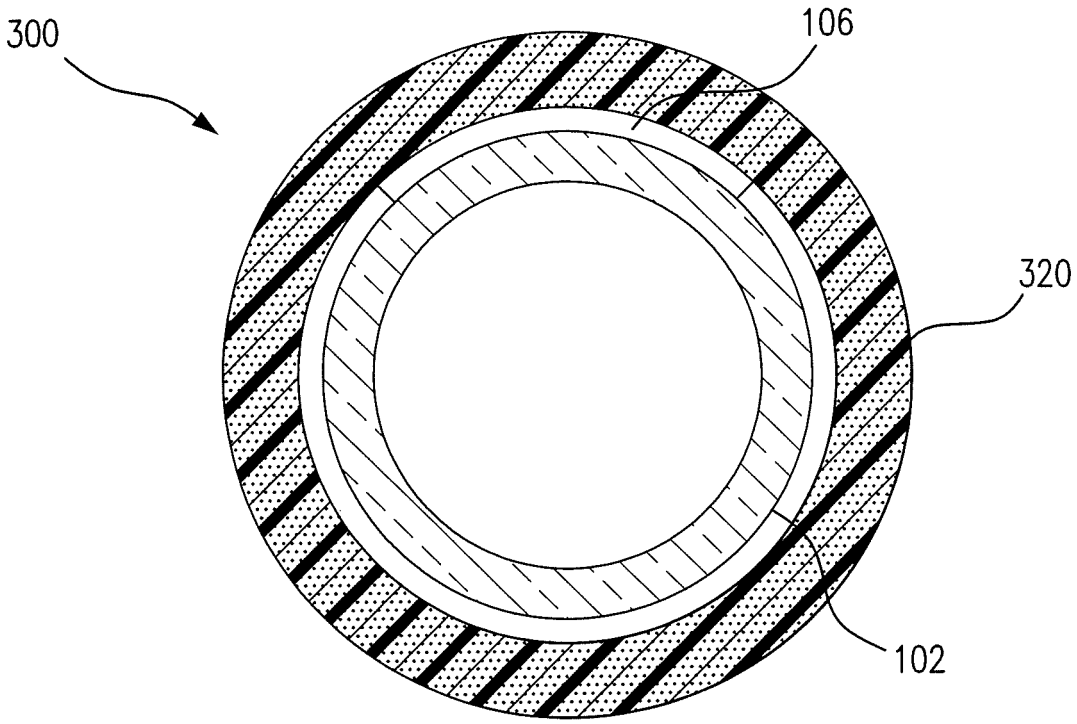


FIG. 14

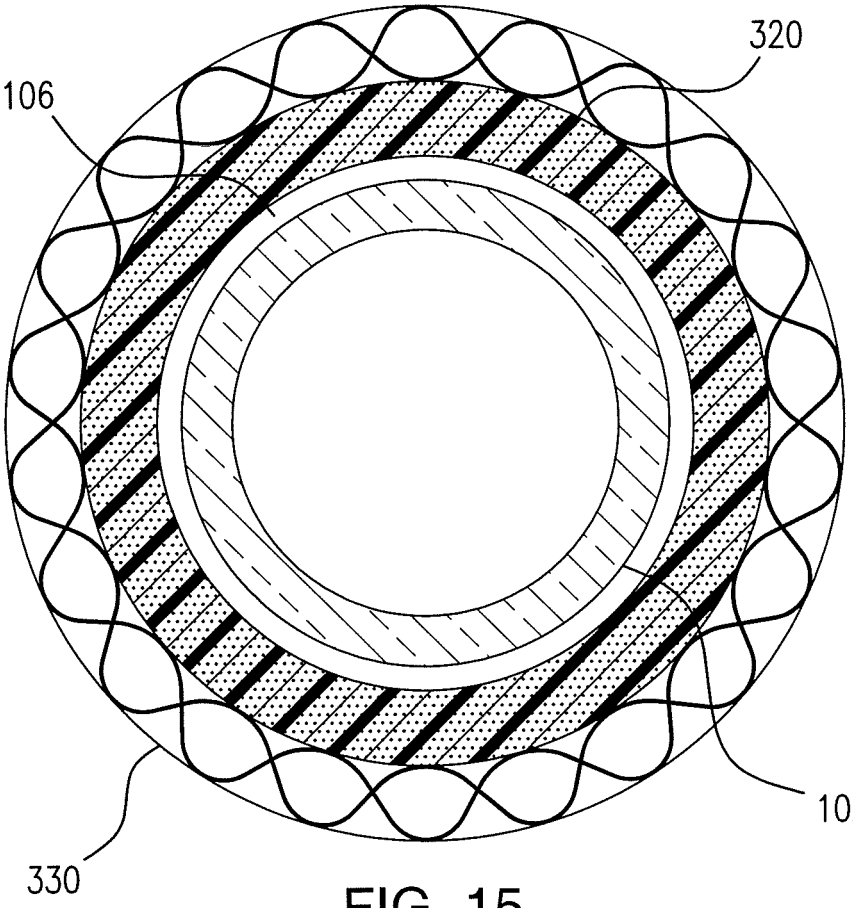


FIG. 15