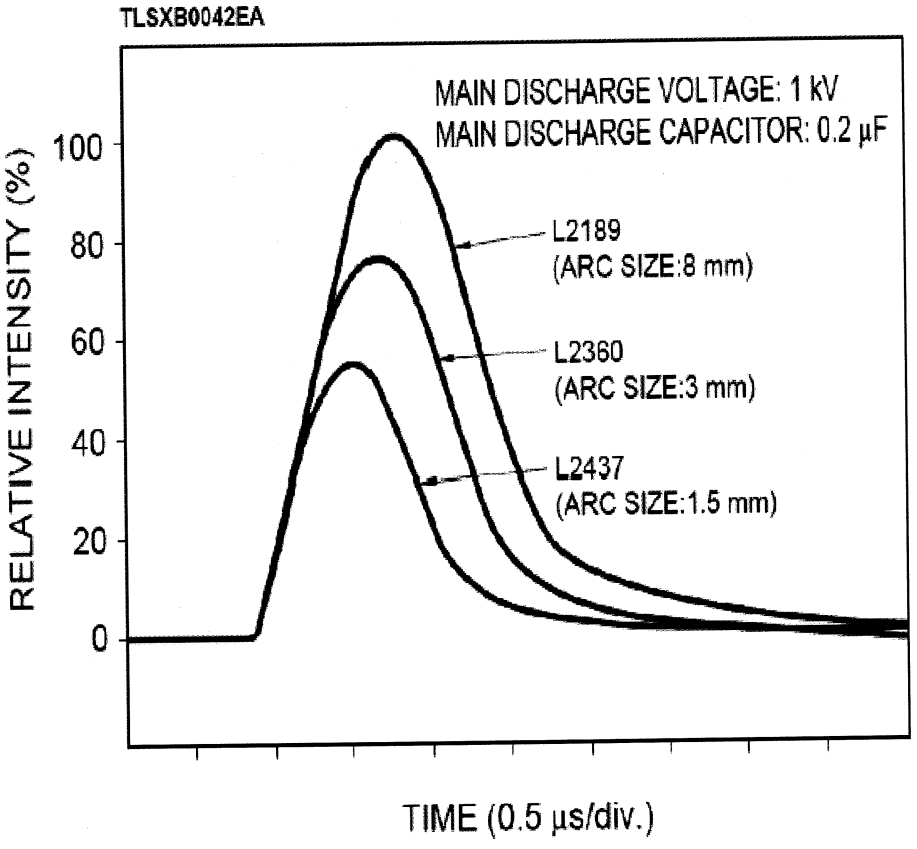

TLSXB0042EA
MAIN DISCHARGE VOLTAGE: 1 kV
MAIN DISCHARGE CAPACITOR: 0.2 µF
L2189
(ARC SIZE:8 mm)
L2360
(ARC SIZE:3 mm)
L2437
(ARC SIZE:1.5 mm)
RELATIVE INTENSITY (%)
100
80
60
40
20
0
TIME (0.5 µs/div.)

FIG. 1

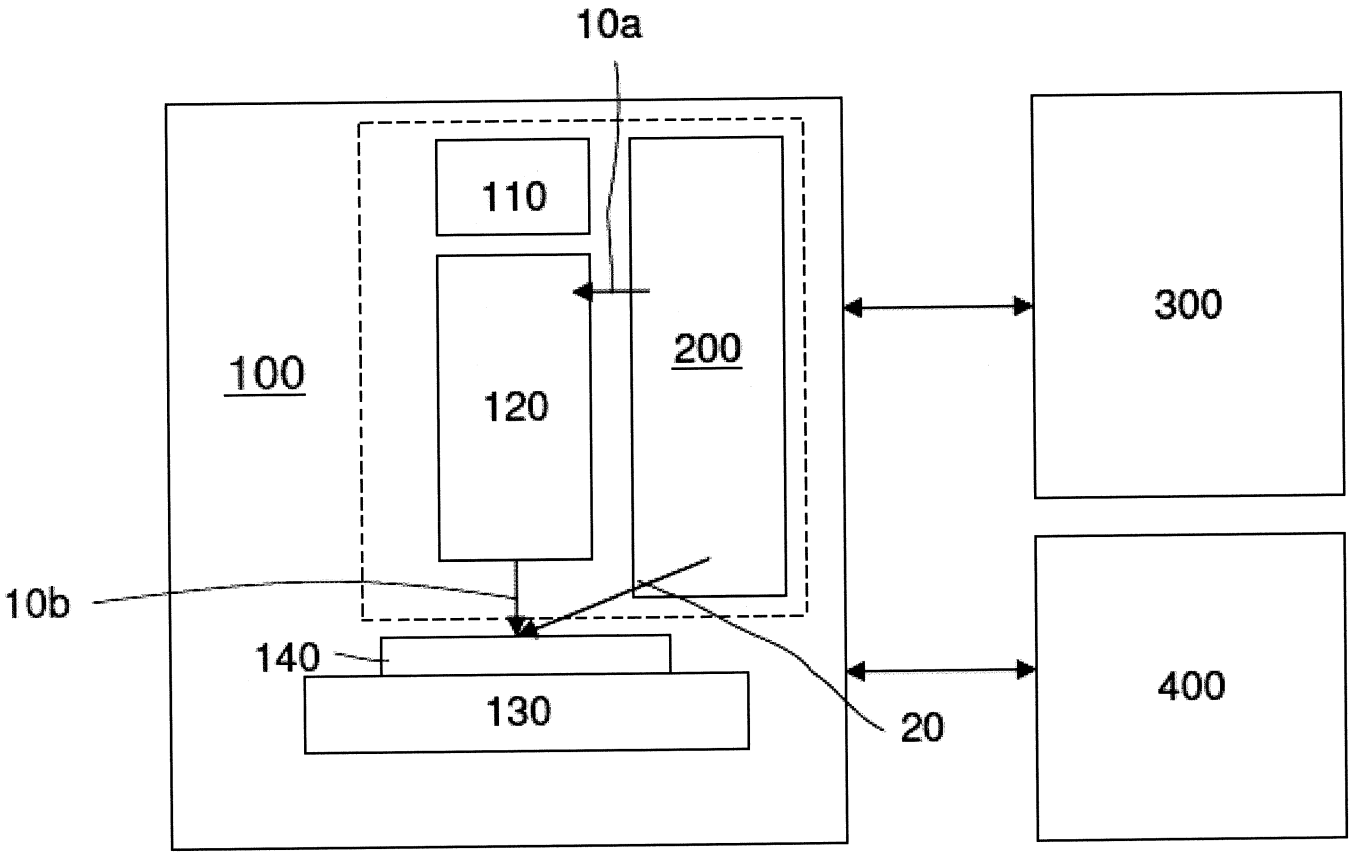


FIG. 2

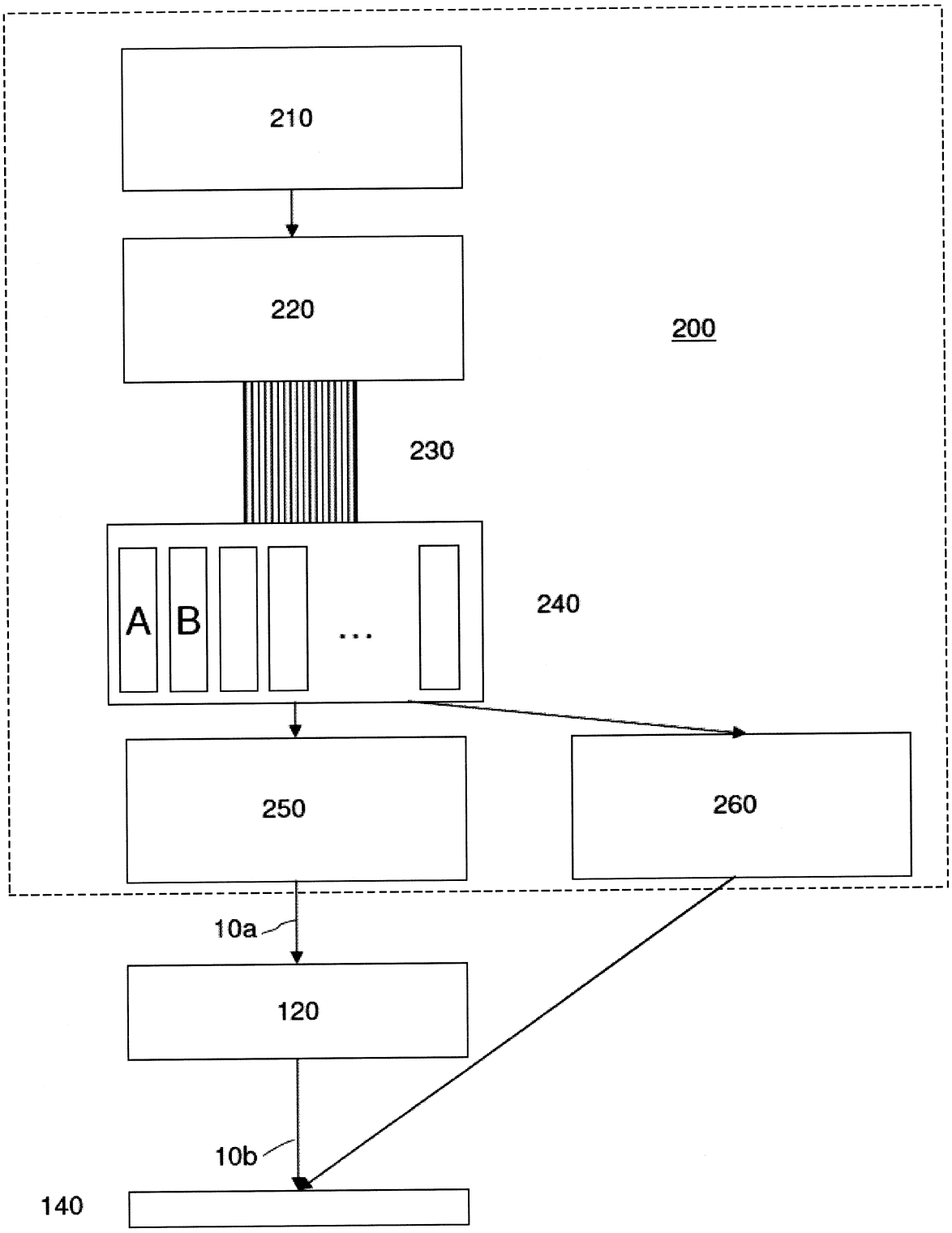


FIG. 3

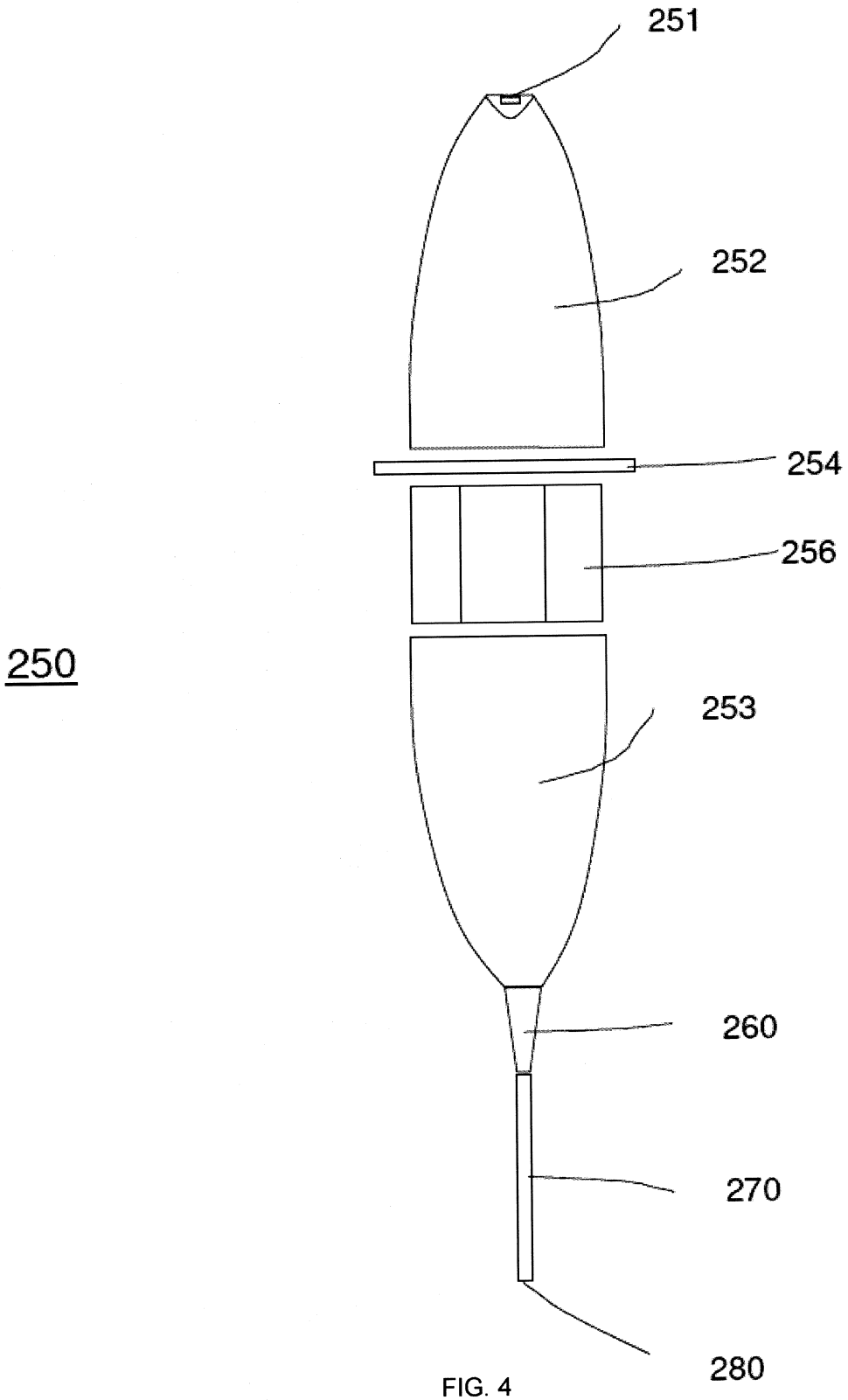


FIG. 4

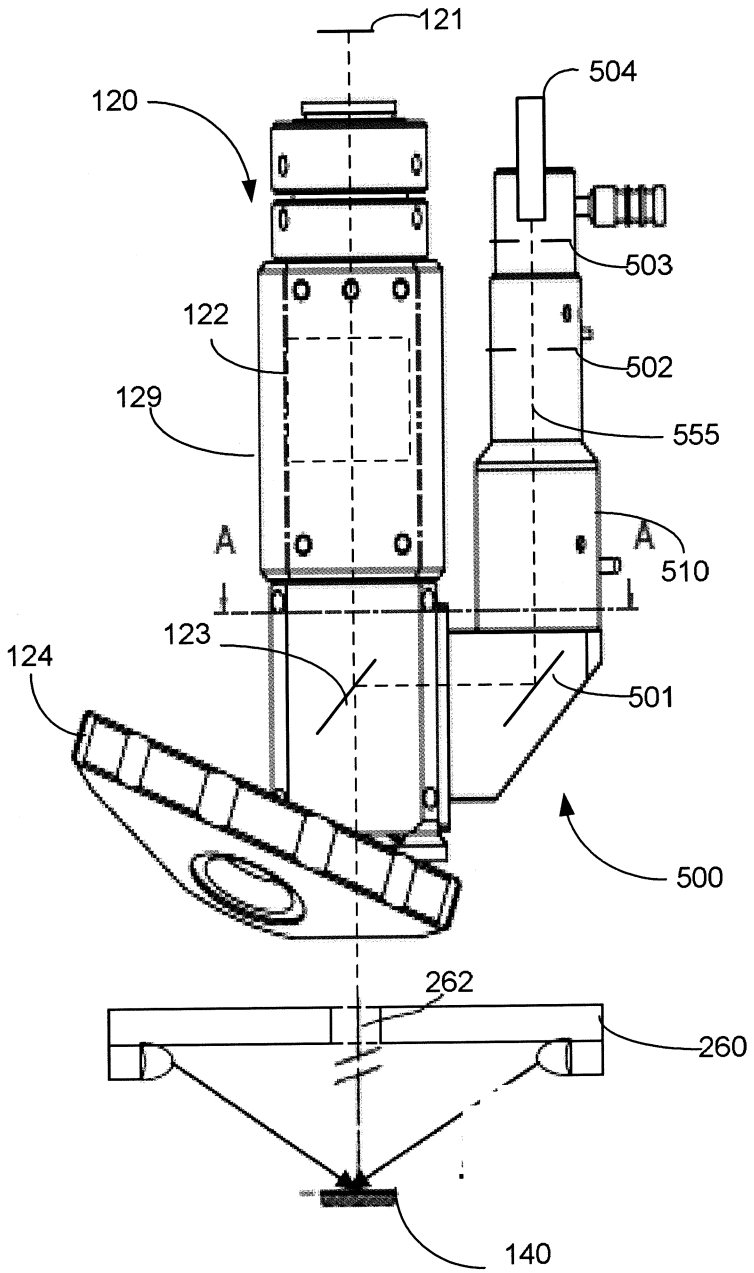

121
504
120
503
122
502
129
555
A
A
510
123
124
501
500
262
260
140

FIG. 5

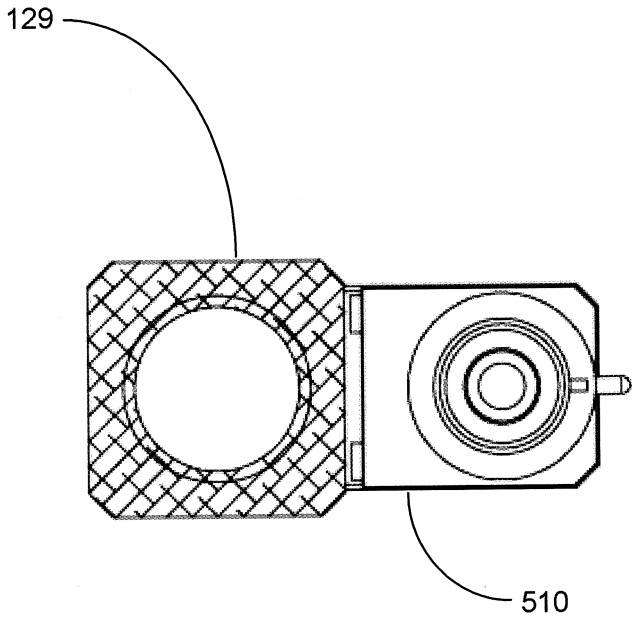


FIG. 6

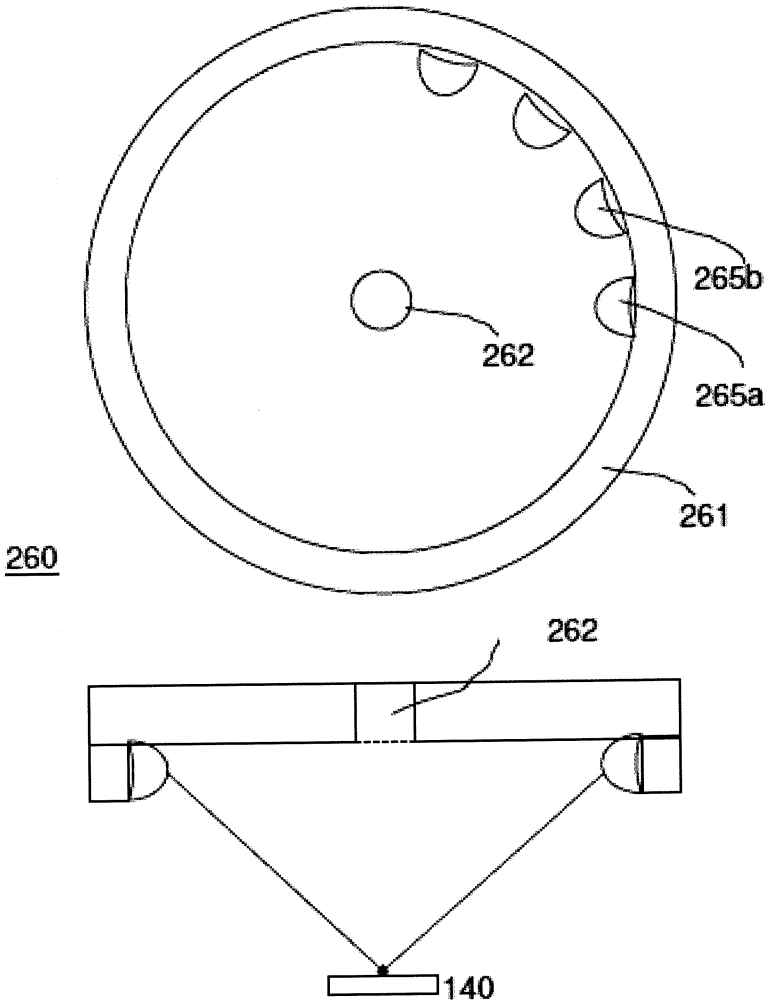


FIG. 7

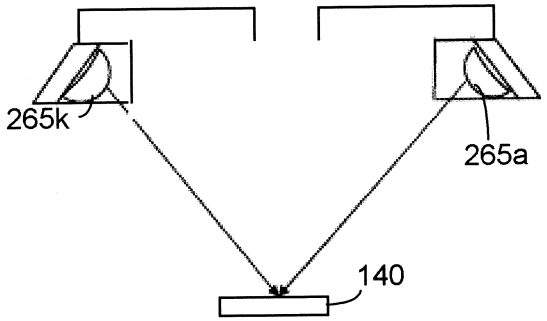


FIG. 8

260

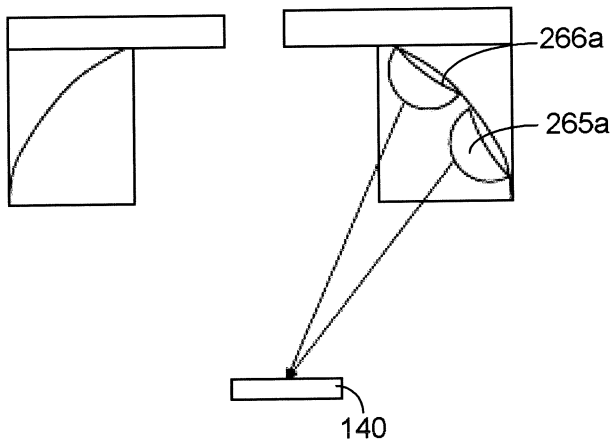


FIG. 9

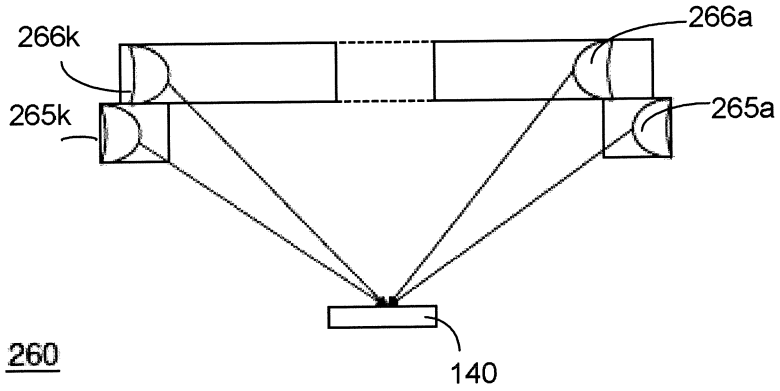


FIG. 10

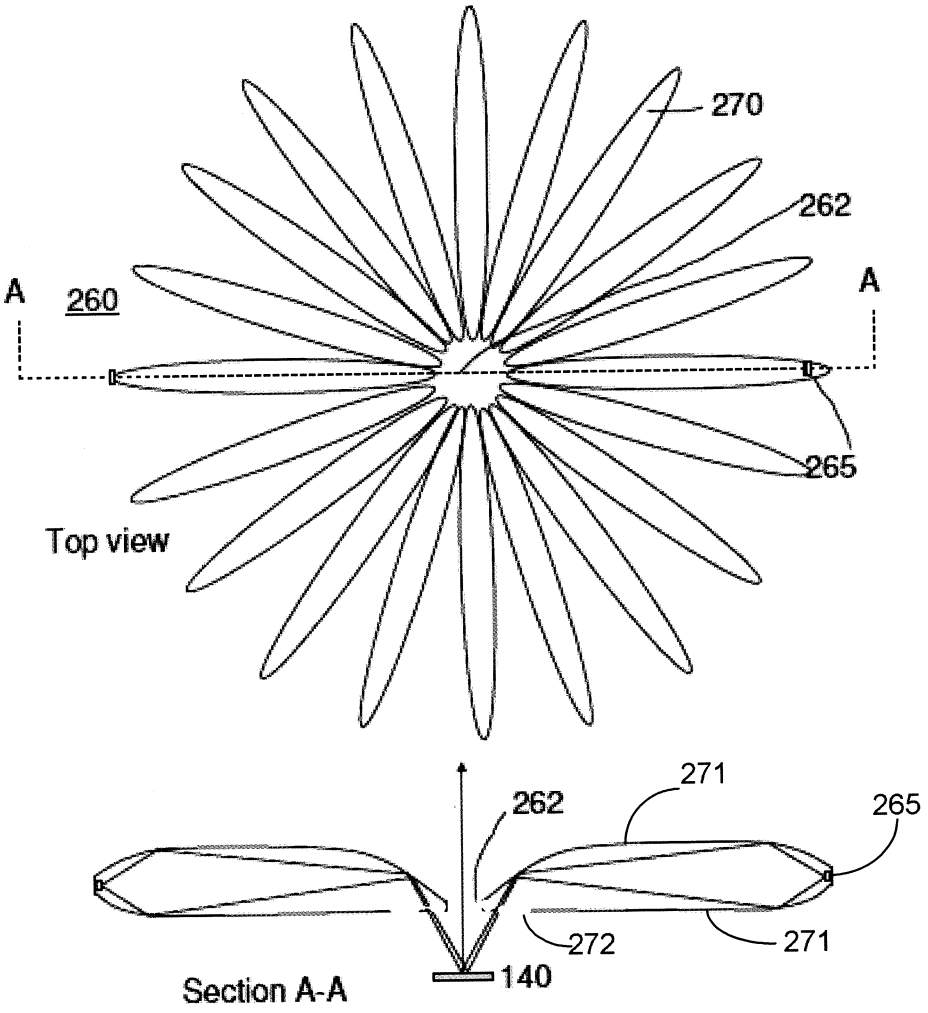


FIG. 11

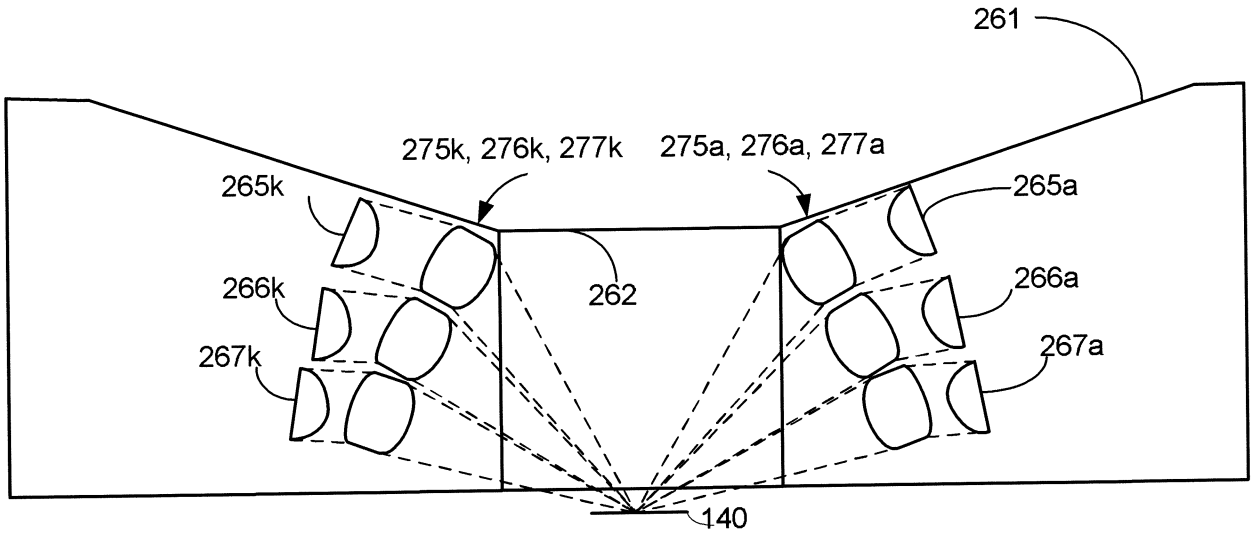


FIG. 12

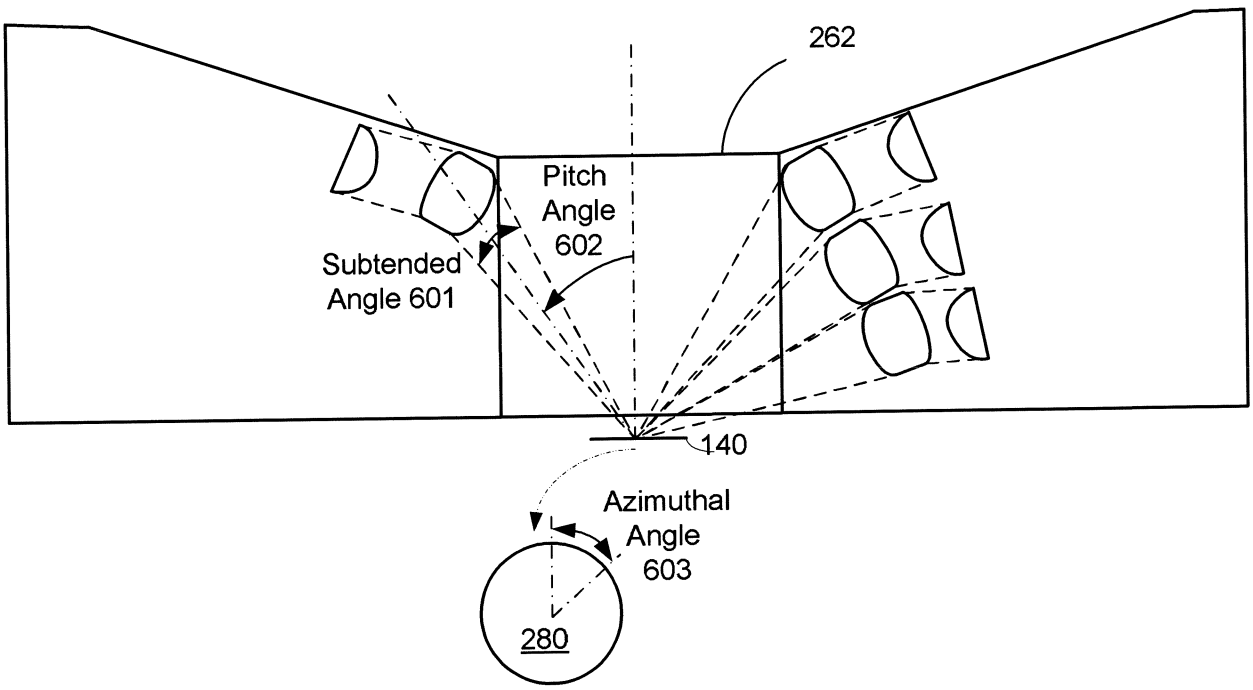


FIG. 12a

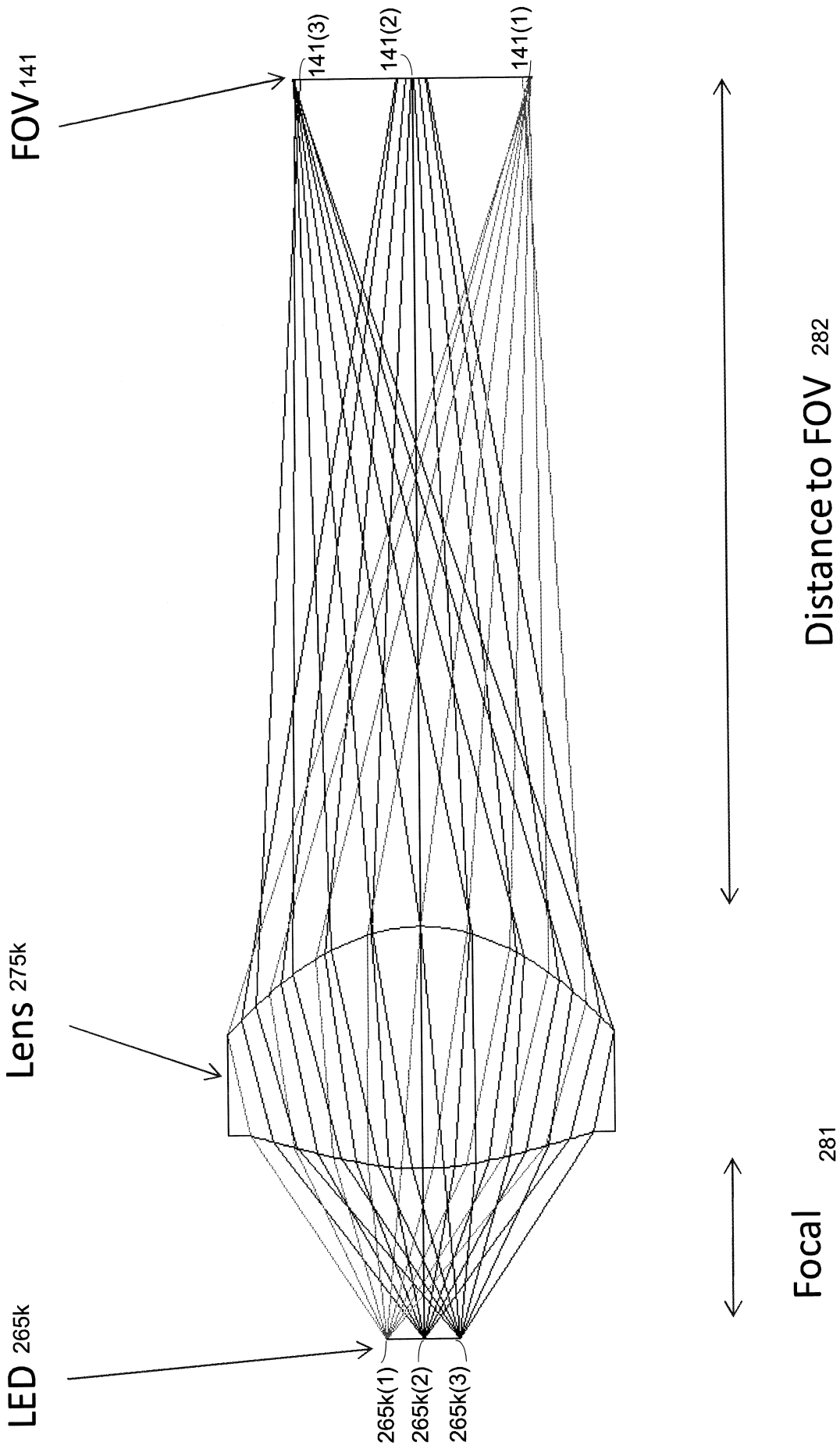

FOV 141
141(3)
141(2)
141(1)
Lens 275k
LED 265k
265k(1)
265k(2)
265k(3)
Distance to FOV 282
Focal Length 281

FIG. 13

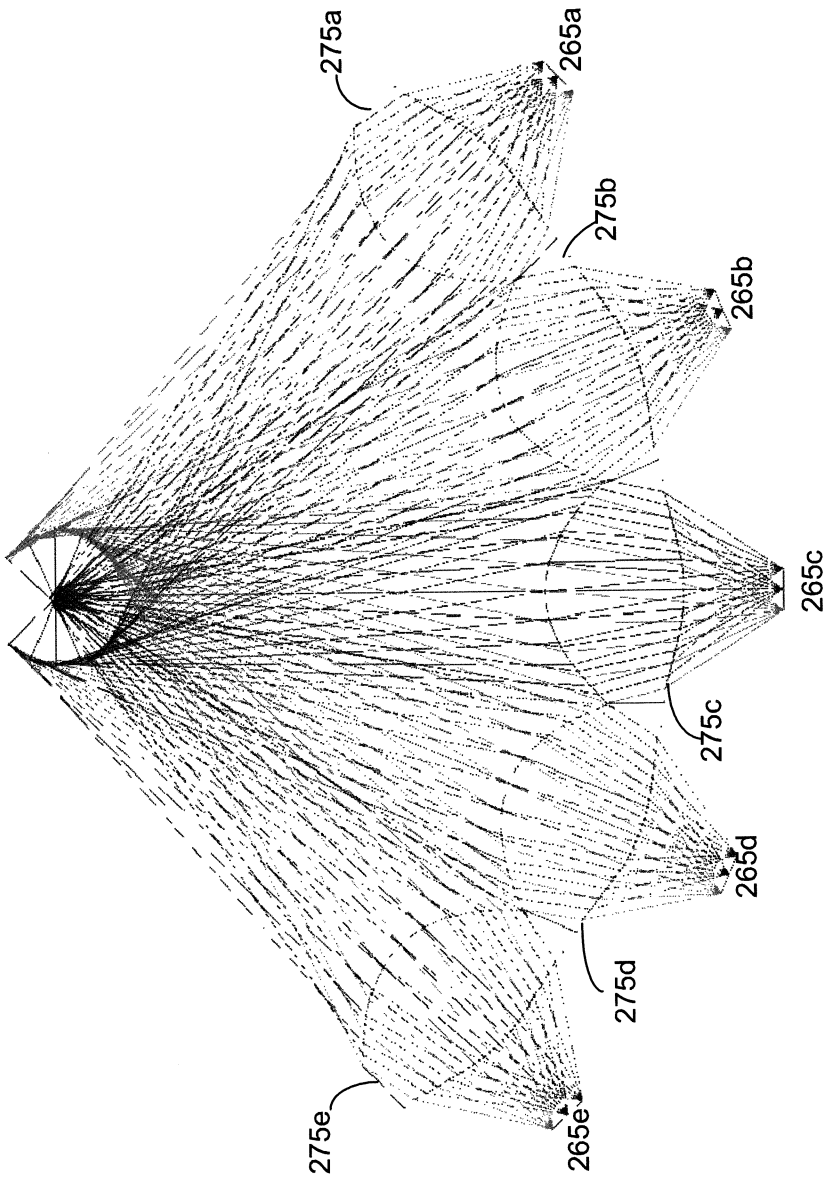


FIG. 14

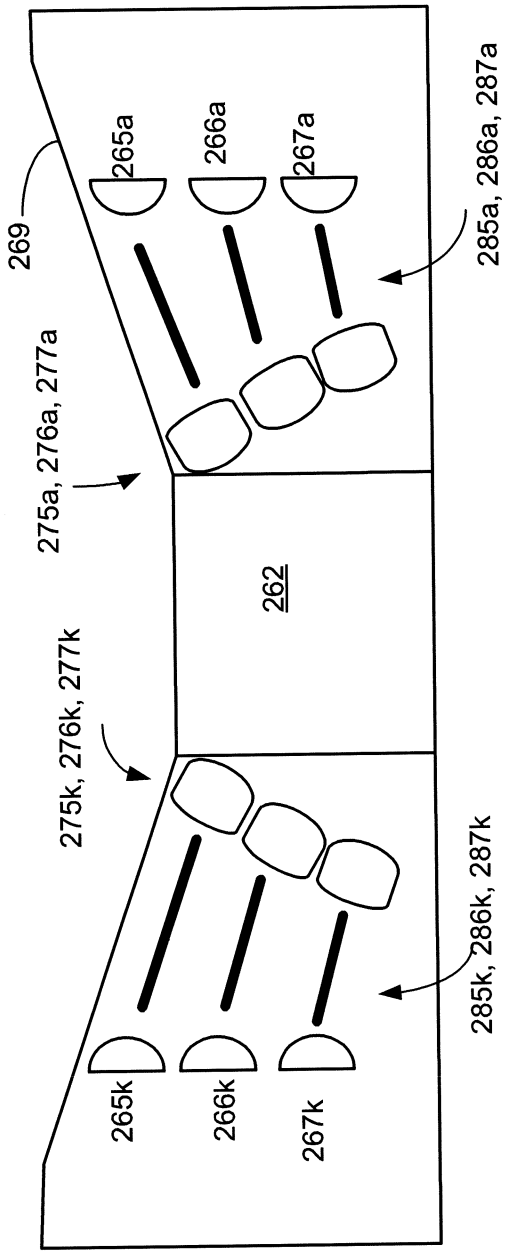

269
265a
266a
267a
285a, 286a, 287a
275a, 276a, 277a
262
275k, 276k, 277k
285k, 286k, 287k
265k
266k
267k

FIG. 15

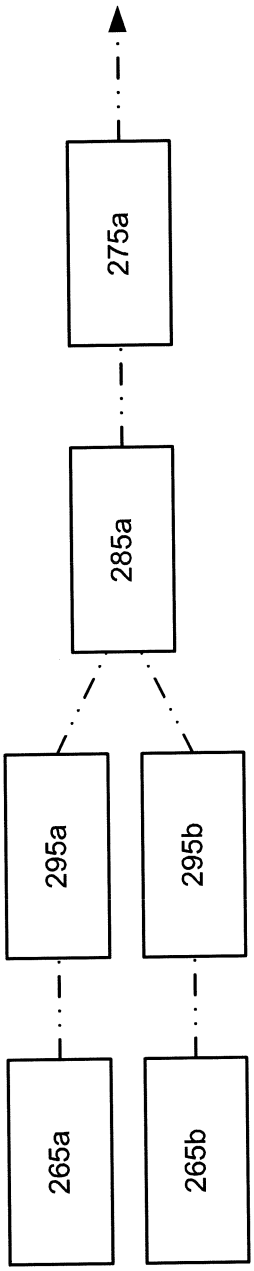


FIG. 16

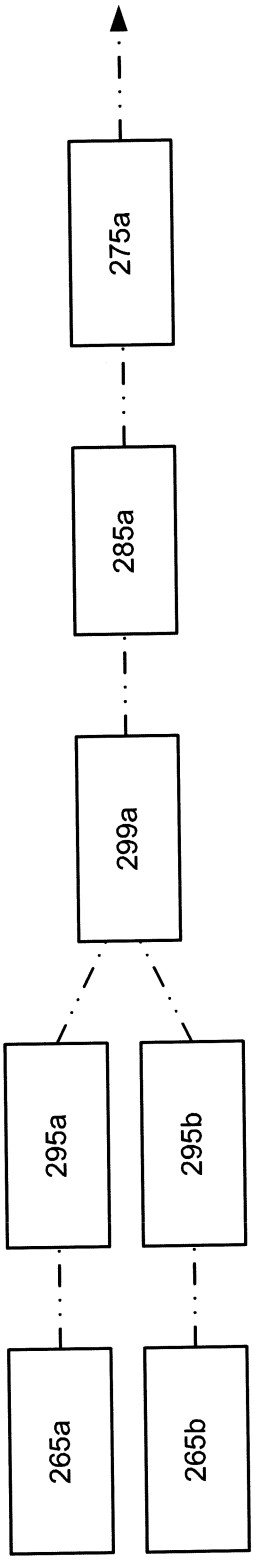


FIG. 17

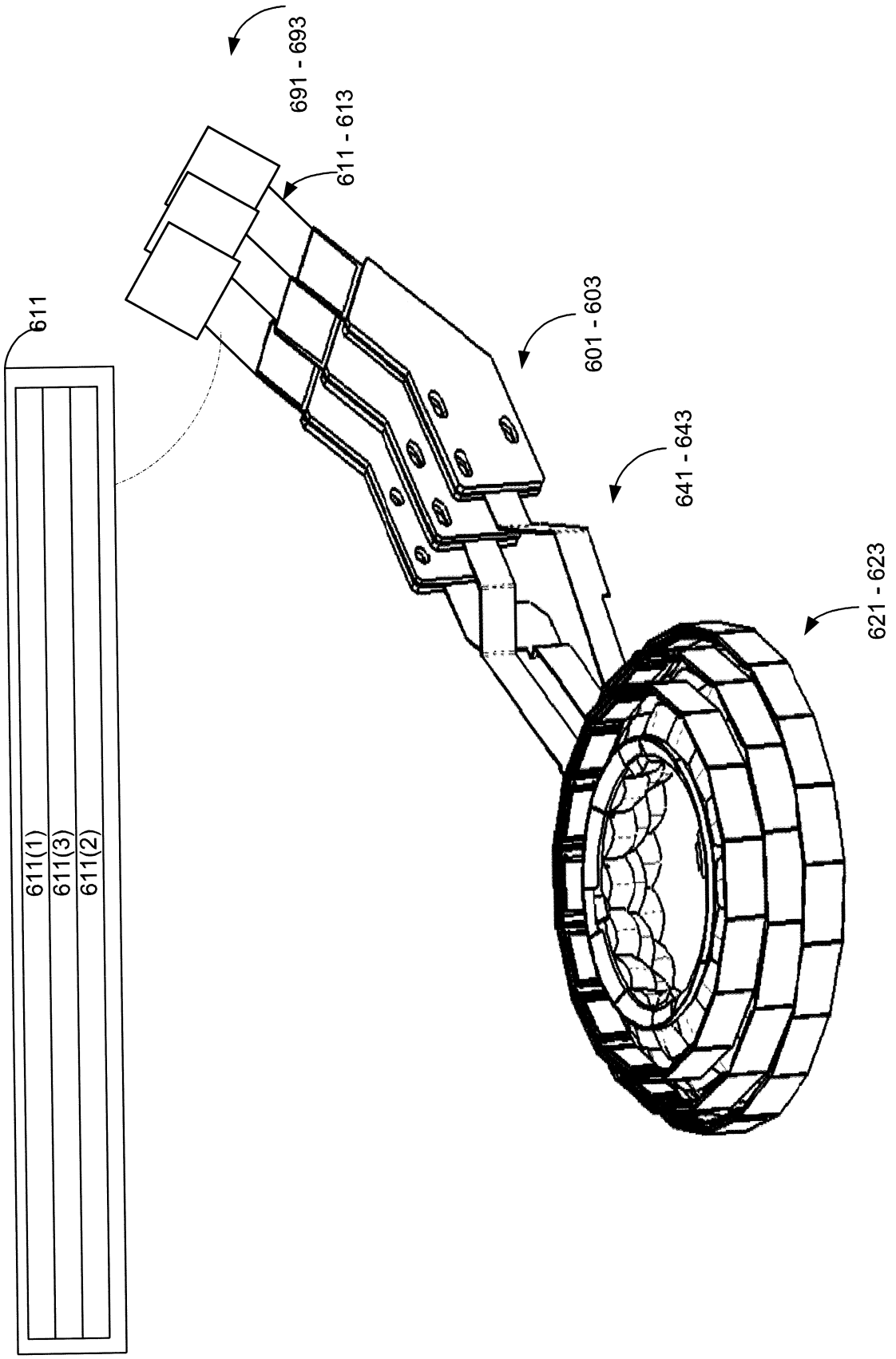


FIG. 18

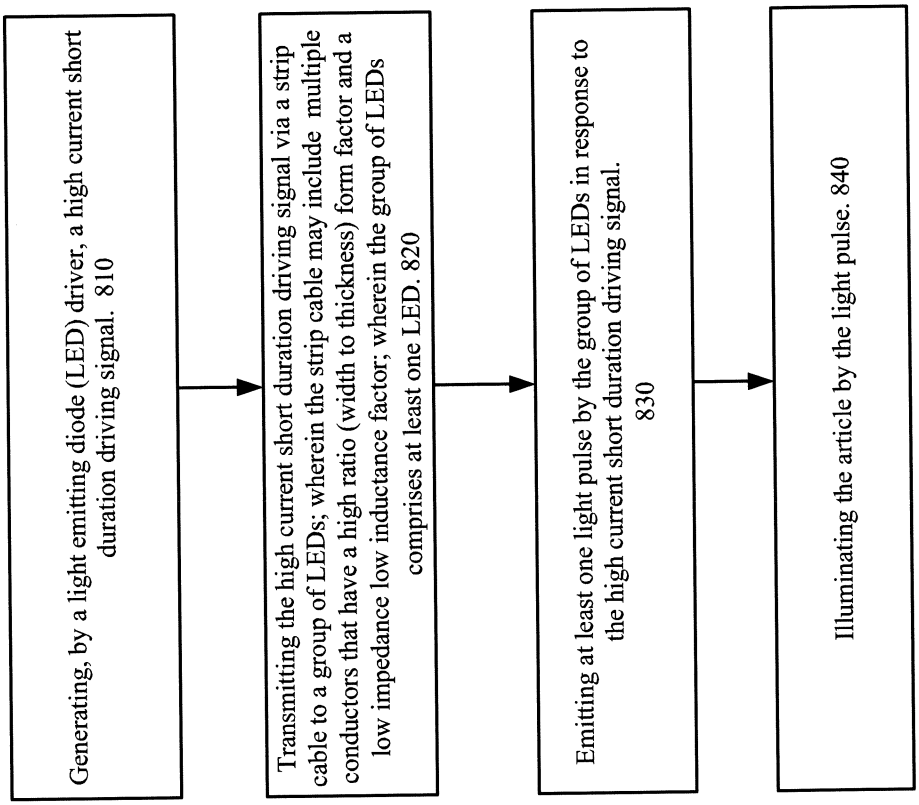
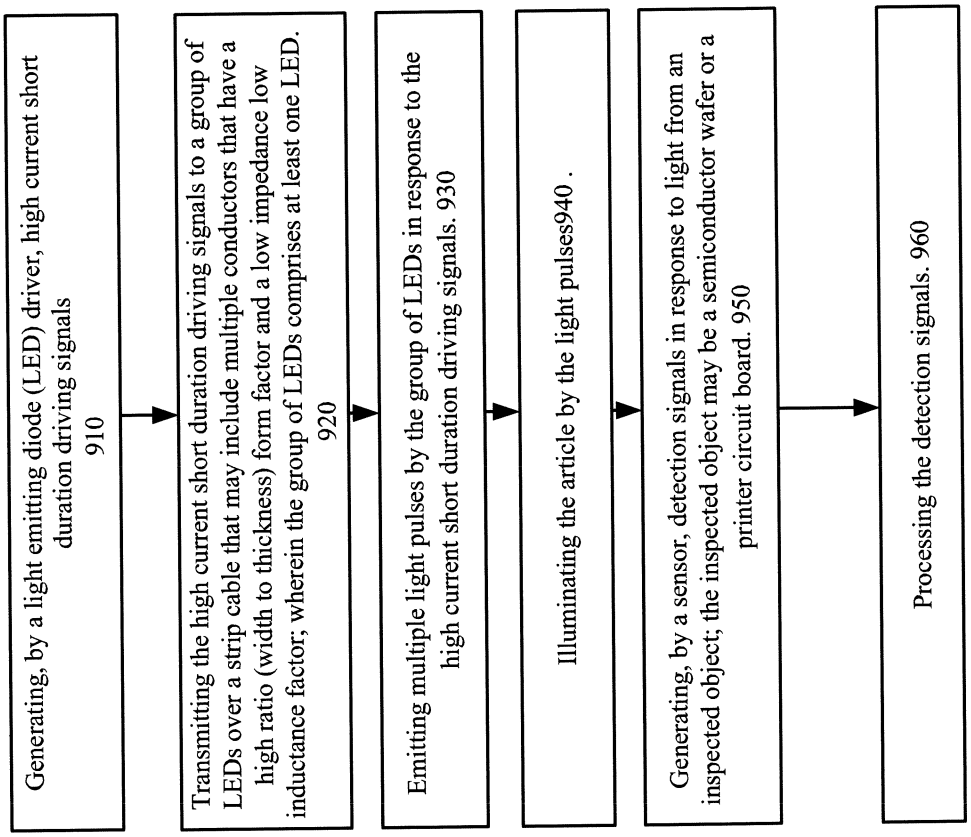

Generating, by a light emitting diode (LED) driver, a high current short duration driving signal. 810
Transmitting the high current short duration driving signal via a strip cable to a group of LEDs; wherein the strip cable may include multiple conductors that have a high ratio (width to thickness) form factor and a low impedance low inductance factor; wherein the group of LEDs comprises at least one LED. 820
Emitting at least one light pulse by the group of LEDs in response to the high current short duration driving signal. 830
Illuminating the article by the light pulse. 840
800

FIG. 19


Generating, by a light emitting diode (LED) driver, high current short duration driving signals
910
Transmitting the high current short duration driving signals to a group of LEDs over a strip cable that may include multiple conductors that have a high ratio (width to thickness) form factor and a low impedance low inductance factor; wherein the group of LEDs comprises at least one LED.
920
Emitting multiple light pulses by the group of LEDs in response to the high current short duration driving signals. 930
Illuminating the article by the light pulses940 .
Generating, by a sensor, detection signals in response to light from an inspected object; the inspected object may be a semiconductor wafer or a printer circuit board. 950
Processing the detection signals. 960

900 FIG. 20

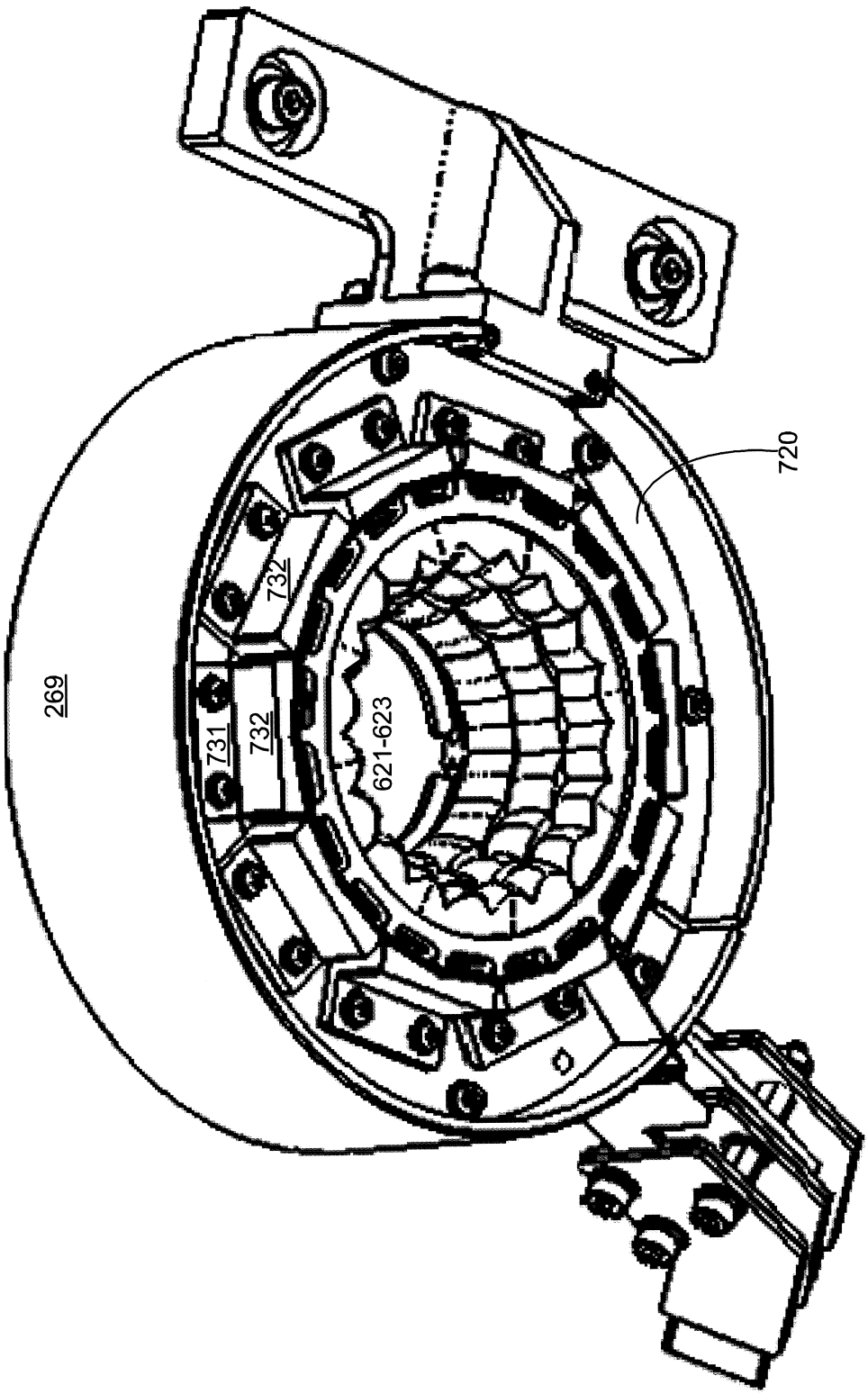


FIG. 21

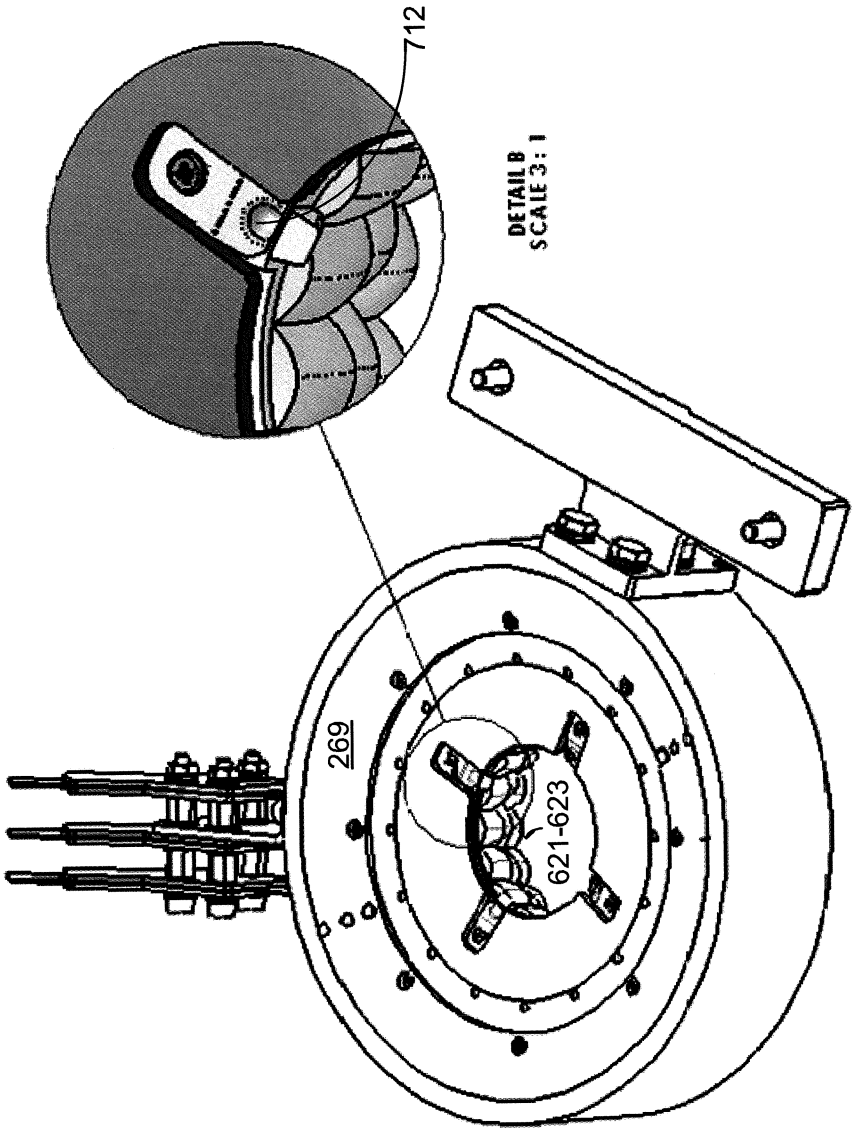


FIG. 22

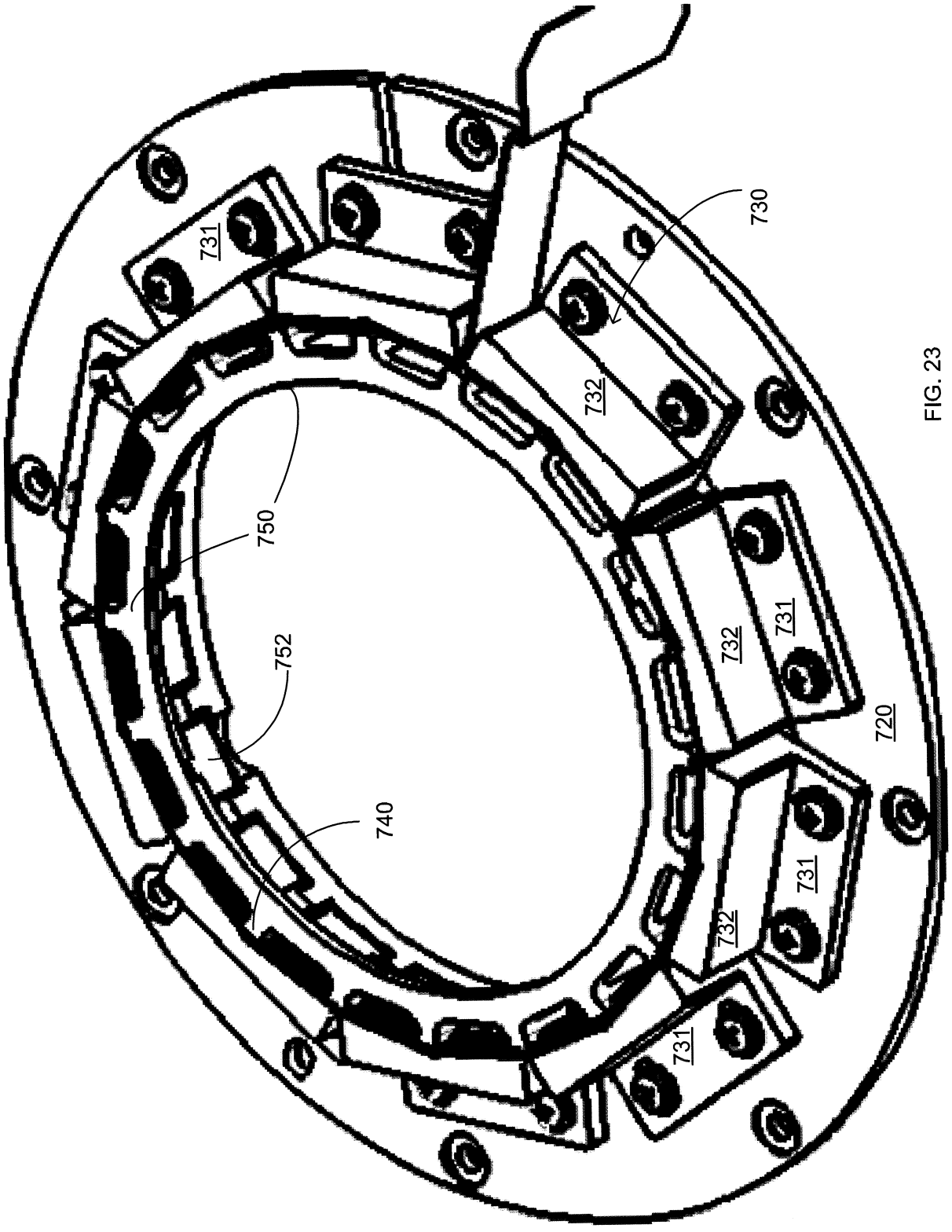


FIG. 23

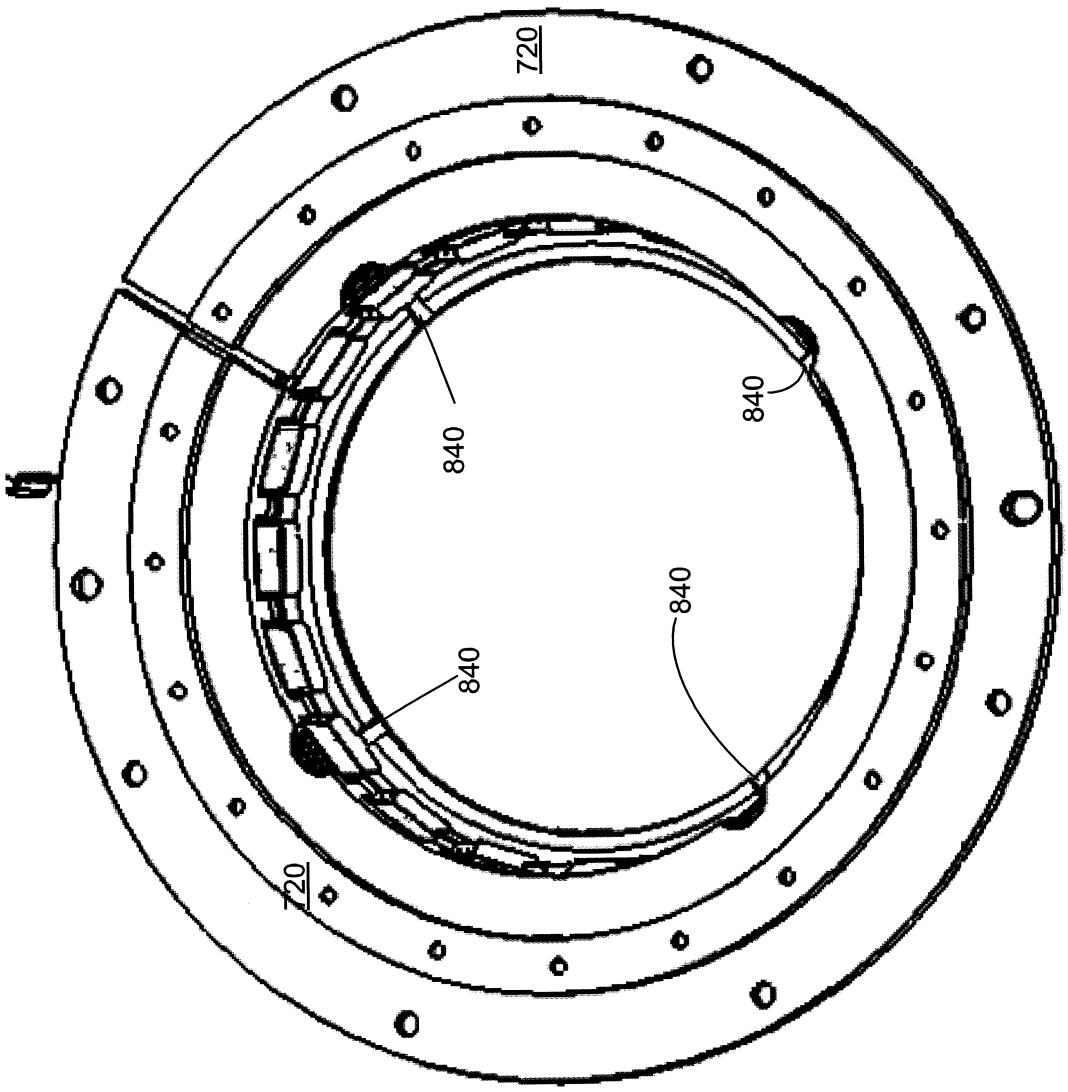


FIG. 24

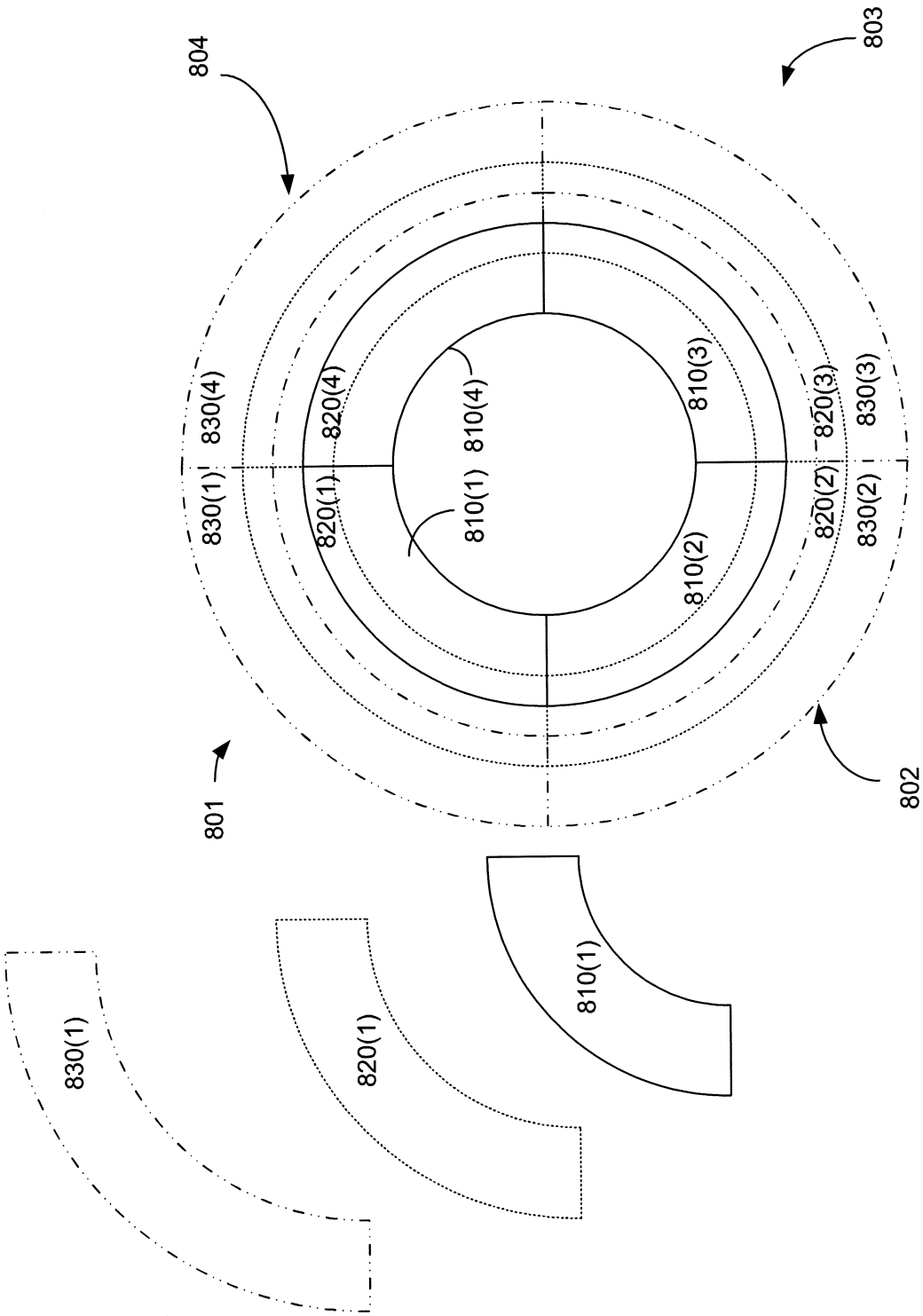

804
803
830(4)
820(4)
810(4)
810(3)
820(3)
830(3)
830(1)
820(1)
810(1)
820(2)
830(2)
810(2)
801
802
810(1)
820(1)
830(1)

Fig. 25